APPENDIX C

This appendix contains information on the derivation of the assay subset.
Table #1: Complete list of 283 assays used to profile the food dyes.
Table #2: Expanded details on the neurorelevant 182 assays (criteria outlined in the Methods)
Table #3: All assays tested across nine organophosphate pesticides (960)
Table #4: Filtered list of Table #3 - assays active for at least three pesticides (63)
Table #5: Assays under subsets of 1) oxidative stress and 2) Inflammation from Iyer et al., 2019
Table #6: Cell viability assays (88)

Table #1: List of 283 assays used to screen the food dyes. A: Neuro-relevant assay from ATG, NVS, Tox21. B: Active assay for DNT pesticide models. C: Assay related to oxidative stress or inflammation

ASSAY	RATIONALE	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 4	FD&C Yellow No. 5	FD&C Yellow No. 6
ACEA_AR_ANTAGONIST_80HR	B	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result	tested, active result
ACEA_AR_ANTAGONIST_AUC_VIABILITY	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AHR_CIS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
ATG_AHR_CIS_UP	A	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AP_1_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AR_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_AR_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_CMV_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERA_TRANS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERA_TRANS_UP	A, B	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERb_TRANS2_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_ERb_TRANS2_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_ERE_CIS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERE_CIS_UP	A, B	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRA_TRANS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRA_TRANS_UP	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRb_TRANS2_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_ERRb_TRANS2_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_ERRG_TRANS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRG_TRANS_UP	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GPCR_ADORA2A_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADORA2A_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADORA2B_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADORA2B_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRA1A_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRA1A_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRA2B_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRA2B_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRB2_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRB2_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRB3_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_ADRB3_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_CHRM3_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_CHRM3_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_DRD1_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_DRD1_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_DRD5_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_DRD5_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HRH1_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HRH1_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HTR6_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HTR6_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HTR7_TRANS_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GPCR_HTR7_TRANS_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_GR_TRANS_dn	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GR_TRANS_up	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GRE_CIS_dn	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GRE_CIS_up	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MR_TRANS2_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_MR_TRANS2_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_MRE_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NRF2_ARE_CIS_UP	B	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_OCT_MLP_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARG_TRANS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPRE_CIS_UP	B	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PXRE_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SREBP_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_THRA1_TRANS_DN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_THRA1_TRANS_UP	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_THRb_TRANS2_dn	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_THRb_TRANS2_up	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
ATG_VDRE_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_XBP1_CIS_UP	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ESELECTIN_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_HLADR_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ICAM1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ICAM1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_IL8_DOWN	B, C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_IL8_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MCP1_DOWN	B, C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_UPAR_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_VIS_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_EOTAXIN3_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_PSELECTIN_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_VCAM1_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IL1A_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IL1A_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCP1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_COLLAGENIII_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IP10_DOWN	B	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MCSF_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive

Table #1: List of 283 assays used to screen the food dyes. A: Neuro-relevant assay from ATG, NVS, Tox21. B: Active assay for DNT pesticide models. C: Assay related to oxidative stress or inflammation

ASSAY	RATIONALE	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 4	FD&C Yellow No. 5	FD&C Yellow No. 6
BSK_HDFCGF_MIG_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MIG_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_VCAM1_DOWN	B	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MCP1_DOWN	B, C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_CD40_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL8_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL8_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_DOWN	C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCSF_DOWN	B, C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_PGE2_UP	B	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_VCAM1_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_CD38_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_CD40_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_CD69_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_ESELECTIN_DOWN	B	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MCP1_DOWN	B, C	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MCP1_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_DOWN	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_UP	C	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP1A1_6HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP1A2_24HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP1A2_48HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP1A2_6HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP2B6_24HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP2B6_48HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
CLD_CYP2B6_6HR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NCCT_QUANTILUM_INHIB_DN	B	tested, active result	not tested	not tested	not tested	tested, active result	not tested	not tested
NCCT_TPO_AUR_DN	B	tested, active result	not tested	tested, active result	tested, active result	tested, active result	not tested	not tested
NHEERL_ZF_144HPF_TERATOSCORE_UP	B	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ADME_HCYP1A2	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ADME_HCYP2C19	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_hAChE	A, B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_hAChE_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HES	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RABI2C	A	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_RABI2C_ACTIVATOR	A	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_rACFSKBinding	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rACFSKBinding_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rAChE	A, B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rAChE_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RCNOS	A	not tested	not tested	not tested	not tested	tested, but inactive	tested, active result	tested, active result
NVS_ENZ_RCNOS_ACTIVATOR	A	not tested	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive
NVS_ENZ_rCOMT	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rCOMT_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOAC	A	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested
NVS_ENZ_RMAOAC_ACTIVATOR	A	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_rMAOBC	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rMAOBC_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rMAOBP	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_rMAOBP_Activator	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_BADOR_NONSELECTIVE	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_bAT2	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_bDR_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_bH1	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_bNPY_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_G5HT4	A	not tested	not tested	not tested	not tested	tested, active result	tested, active result	tested, active result
NVS_GPCR_gANPA	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_gH2	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_GOPIATEK	A	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, active result	tested, active result
NVS_GPCR_h5HT2A	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_H5HT5A	A	not tested	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, active result
NVS_GPCR_H5HT6	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_H5HT7	A	tested, active result	not tested	not tested	not tested	tested, active result	tested, active result	tested, active result
NVS_GPCR_HADORA1	A	not tested	not tested	not tested	tested, active result	not tested	not tested	tested, but inactive
NVS_GPCR_HADORA2A	A	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_HADRA2A	A	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_HADRA2C	A	not tested	not tested	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive
NVS_GPCR_hAT1	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_HDRD1	A	not tested	not tested	not tested	tested, active result	tested, active result	tested, active result	tested, active result
NVS_GPCR_HDRD2S	A	not tested	not tested	not tested	not tested	tested, active result	tested, but inactive	tested, active result
NVS_GPCR_HDRD4.4	A	not tested	not tested	not tested	not tested	tested, active result	tested, active result	tested, active result
NVS_GPCR_HM1	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_HM2	A	not tested	not tested	not tested	not tested	tested, active result	tested, but inactive	not tested
NVS_GPCR_HM3	A	not tested	not tested	not tested	not tested	tested, active result	tested, but inactive	tested, active result
NVS_GPCR_HM4	A	not tested	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive
NVS_GPCR_HM5	A	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested
NVS_GPCR_hNK2	A	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_GPCR_HOPIATE_D1	A	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested
NVS_GPCR_HOPIATE_MU	A	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested
NVS_GPCR_hORL1	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_mCKKBCentral	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_p5HT2C	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_r5HT_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_R5HT1_NONSELECTIVE	A	not tested	not tested	not tested	not tested	tested, active result	tested, active result	tested, active result
NVS_GPCR_RADRA1_NONSELECTIVE	A	not tested	not tested	not tested	not tested	not tested	tested, active result	tested, but inactive
NVS_GPCR_rAdra1A	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RADRA1B	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested

Table #1: List of 283 assays used to screen the food dyes. A: Neuro-relevant assay from ATG, NVS, Tox21. B: Active assay for DNT pesticide models. C: Assay related to oxidative stress or inflammation

ASSAY	RATIONALE	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 4	FD&C Yellow No. 5	FD&C Yellow No. 6
NVS_GPCR_rAdra2_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rAdrb_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rCRF	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rGABBR	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rGalanin	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rGHB	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rH3	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rmAdra2B	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rmMGluR1	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rmMGluR5	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RNK1	A	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested
NVS_GPCR_rNK3	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RNTS	A	not tested	not tested	not tested	not tested	tested, active result	not tested	tested, active result
NVS_GPCR_rOpiate_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rOpiate_NonSelectiveNa	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_rSST	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RTRH	A	not tested	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested
NVS_GPCR_rVIP_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_IC_RCABTZCHL	A	not tested	not tested	not tested	not tested	tested, but inactive	tested, active result	not tested
NVS_IC_RCACHN	A	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_IC_rCaDHPRCh_L	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_IC_RKAR	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive
NVS_IC_rKATPCh	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_IC_rKCaCh	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_IC_RNACH_SITE2	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_bGABAR_Agonist	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_bGABARa1	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_bGABARa5	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_H5HT3	A	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested
NVS_LGIC_HNNR_NBUNGSENS	A	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested
NVS_LGIC_rAMPA	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_rGABAR_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_RGABARA6	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_rGluNMDA_Agonist	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_rGluNMDA_MK801_Agonist	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_rGlyRStrySens	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_LGIC_rNNR_BungSens	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_MP_HPBR	B	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_MP_RPBR	B	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_NR_cAR	A	tested, active result	tested, active result	tested, active result	tested, active result	not tested	not tested	not tested
NVS_NR_hAR	A	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested
NVS_NR_hGR	A, B	tested, active result	not tested	tested, active result	tested, active result	tested, active result	not tested	not tested
NVS_NR_HTRA_ANTAGONIST	A	not tested	not tested	tested, active result	not tested	not tested	tested, but inactive	not tested
NVS_NR_rAR	A	tested, active result		tested, active result	not tested	tested, but inactive	not tested	not tested
NVS_NR_rMR	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_OR_gSIGMA_NonSelective	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_gDAT	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_hAdoT	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_hDAT	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_HNET	A	not tested	not tested	not tested	tested, active result	tested, but inactive	not tested	not tested
NVS_TR_HSERT	A	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_TR_rAdoT	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_rNET	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_RVMAT2	A	not tested	not tested	not tested	not tested	not tested	not tested	not tested
OT_FXR_FXRSRC1_0480	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
OT_FXR_FXRSRC1_1440	B	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AHR_LUC_AGONIST	A, B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_AGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST_COUNTERSCREEN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_ANTAGONIST_SPECIFICITY	A	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive
TOX21_ARE_BLA_AGONIST_RATIO	A, B	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_DT40	B	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_DT40_100	B	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_DT40_657	B	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_AGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_ANTAGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_AGONIST	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_AGONIST_COUNTERSCREEN	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_ANTAGONIST	A	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_ANTAGONIST_SPECIFICITY	A	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_AGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_AGONIST	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_ANTAGONIST	A	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_ESRE_BLA_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_Agonist_ratio	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_Antagonist_ratio	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PGC_ERR_AGONIST	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PGC_ERR_ANTAGONIST	A	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, active result
TOX21_TR_LUC_GH3_AGONIST	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TR_LUC_GH3_ANTAGONIST	A	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_TSHR_AGONIST_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_ANTAGONIST_RATIO	A	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_WT_RATIO	A	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOTAL NUMBER OF TESTED ASSAYS		134	62	66	141	159	146	147
TOTAL NUMBER OF ACTIVE ASSAYS		19	8	21	62	27	11	16
PERCENT ACTIVE		14%	13%	32%	44%	17%	8%	11%

Table #2: Potential neuro-relevant assays from platforms Attagene (ATG), Novascreen (NVS), and Tox21.

AssayComponentEndpointName	Organism	Tissue	CellFreeComponentSource	IntendedTargetFamily	IntendedTargetFamilySub	GeneName	GeneSymbol	ToxPi Slice*
NVS_ENZ_hAChE	human	not applicable	not applicable	esterase	acetylcholinesterase	acetylcholinesterase (Yt blood group)	ACHE	ENZ
NVS_ENZ_hAChE_Activator	human	not applicable	not applicable	esterase	acetylcholinesterase	acetylcholinesterase (Yt blood group)	ACHE	ENZ
NVS_ENZ_rabI2C	rabbit	brain	not applicable	oxidoreductase	imidazoline receptor	creatine kinase, brain	CKB	ENZ
NVS_ENZ_rabI2C_Activator	rabbit	brain	Rabbit brain membranes	oxidoreductase	imidazoline receptor	creatine kinase, brain	CKB	ENZ
NVS_ENZ_rACFSKBinding	rat	brain	Rat forebrain membranes	lyase	adenylyl cyclase	adenylate cyclase 5	Adcy5	ENZ
NVS_ENZ_rACFSKBinding_Activator	rat	brain	Rat forebrain membranes	lyase	adenylyl cyclase	adenylate cyclase 5	Adcy5	ENZ
NVS_ENZ_rAChE	rat	brain	Rat brain membranes	esterase	acetylcholinesterase	acetylcholinesterase	Ache	ENZ
NVS_ENZ_rAChE_Activator	rat	brain	Rat brain membranes	esterase	acetylcholinesterase	acetylcholinesterase	Ache	ENZ
NVS_ENZ_rCNOS	rat	brain	Rat brain membranes	oxidoreductase	nitric oxide synthase	nitric oxide synthase 1, neuronal	Nos1	ENZ
NVS_ENZ_rCNOS_Activator	rat	brain	Rat brain membranes	oxidoreductase	nitric oxide synthase	nitric oxide synthase 1, neuronal	Nos1	ENZ
NVS_ENZ_rCOMT	rat	brain	Rat dorsal striatum	methyltransferase	o-methyltransferase	catechol-O-methyltransferase	Comt	ENZ
NVS_ENZ_rCOMT_Activator	rat	brain	Rat dorsal striatum	methyltransferase	o-methyltransferase	catechol-O-methyltransferase	Comt	ENZ
NVS_ENZ_rMAOAC	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase A	Maoa	ENZ
NVS_ENZ_rMAOAC_Activator	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase A	Maoa	ENZ
NVS_ENZ_rMAOBC	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase B	Maob	ENZ
NVS_ENZ_rMAOBC_Activator	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase B	Maob	ENZ
NVS_ENZ_rMAOBP	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase B	Maob	ENZ
NVS_ENZ_rMAOBP_Activator	rat	brain	Rat brain	oxidoreductase	monoamine oxidase	monoamine oxidase B	Maob	ENZ
NVS_GPCR_bAdoR_NonSelective	bovine	brain	Bovine striatal membranes	gpcr	rhodopsin-like receptor	adenosine A1 receptor	ADORA1	GPCR
NVS_GPCR_bAT2	bovine	brain	Bovine cerebellar membranes	gpcr	rhodopsin-like receptor	angiotensin II receptor, type 2	AGTR2	GPCR
NVS_GPCR_bDR_NonSelective	bovine	brain	Bovine striatal membranes	gpcr	rhodopsin-like receptor	dopamine receptor D1	DRD1	GPCR
NVS_GPCR_bH1	bovine	brain	Bovine cerebellar membranes	gpcr	rhodopsin-like receptor	histamine receptor H1	HRH1	GPCR
NVS_GPCR_bNPY_NonSelective	bovine	brain	Bovine hippocampal membranes	gpcr	rhodopsin-like receptor	neuropeptide Y	NPY	GPCR
NVS_GPCR_g5HT4	guinea pig	brain	Guinea pig striatal membranes	gpcr	rhodopsin-like receptor	5 hydroxytryptamine (serotonin) receptor 4	Htr4	GPCR
NVS_GPCR_gANPA	guinea pig	brain	Guinea pig cerebellar membranes	lyase	guanylyl cyclase	natriuretic peptide A	Nppa	GPCR
NVS_GPCR_gH2	guinea pig	brain	Guinea pig striatal membranes	gpcr	rhodopsin-like receptor	histamine receptor H2	Hrh2	GPCR
NVS_GPCR_gOpiateK	guinea pig	brain	Guinea pig cerebellar membranes	gpcr	rhodopsin-like receptor	opioid receptor, kappa 1	Oprk1	GPCR
NVS_GPCR_h5HT2A	human	brain	Human cortex	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled	HTR2A	GPCR
NVS_GPCR_h5HT5A	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 5A, G protein-coupled	HTR5A	GPCR
NVS_GPCR_H5HT6	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled	HTR6	GPCR
NVS_GPCR_h5HT7	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 7, adenylate cyclase-coupled	HTR7	GPCR
NVS_GPCR_hAdoRA1	human	brain	Human cortical membranes	gpcr	rhodopsin-like receptor	adenosine A1 receptor	ADORA1	GPCR
NVS_GPCR_hAdoRA2a	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	adenosine A2a receptor	ADORA2A	GPCR
NVS_GPCR_HADRA2A	human	not applicable	HT29	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2A	ADRA2A	GPCR
NVS_GPCR_HADRA2C	human	not applicable	HT29	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2C	ADRA2C	GPCR
NVS_GPCR_hAT1	human	brain	KAN-TS	gpcr	rhodopsin-like receptor	angiotensin II receptor, type 1	AGTR1	GPCR
NVS_GPCR_hDRD1	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	dopamine receptor D1	DRD1	GPCR
NVS_GPCR_hDRD2s	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	dopamine receptor D2	DRD2	GPCR
NVS_GPCR_hDRD4.4	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	dopamine receptor D4	DRD4	GPCR
NVS_GPCR_HM1	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 1	CHRM1	GPCR
NVS_GPCR_HM2	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 2	CHRM2	GPCR
NVS_GPCR_HM3	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 3	CHRM3	GPCR
NVS_GPCR_HM4	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 4	CHRM4	GPCR
NVS_GPCR_HM5	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 5	CHRM5	GPCR
NVS_GPCR_hNK2	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	tachykinin receptor 2	TACR2	GPCR
NVS_GPCR_HOPIATE_D1	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	opioid receptor, delta 1	OPRD1	GPCR
NVS_GPCR_HOPIATE_MU	human	not applicable	HEK293	gpcr	rhodopsin-like receptor	opioid receptor, mu	Oprm	GPCR
NVS_GPCR_mCKKBCentral	mouse	brain	Mouse forebrain membranes	gpcr	rhodopsin-like receptor	cholecystokinin B receptor	Cckbr	GPCR
NVS_GPCR_hORL1	human		HEK293	gpcr	rhodopsin-like receptor	opiate-receptor like 1	ORL1	GPCR
NVS_GPCR_p5HT2C	pig	brain	Pig choroid plexus membranes	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled	HTR2C	GPCR
NVS_GPCR_r5HT_NonSelective	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled	Htr1a	GPCR
NVS_GPCR_r5HT1_NonSelective	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled	Htr1a	GPCR
NVS_GPCR_rAdra1_NonSelective	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	adrenoceptor alpha 1A	Adra1a	GPCR
NVS_GPCR_rAdra1A	rat	brain	Rat cortical membranes (pretreated with chlorethyl clonidine-CEC)	gpcr	rhodopsin-like receptor	adrenoceptor alpha 1A	Adra1b	GPCR
NVS_GPCR_RADRA1B	rat	liver	Rat liver membranes	gpcr	rhodopsin-like receptor	adrenoceptor alpha 1B	Adra1a	GPCR
NVS_GPCR_rAdra2_NonSelective	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2A	Adra2a	GPCR
NVS_GPCR_rAdrb_NonSelective	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	adrenoceptor beta 1	Adrb1	GPCR
NVS_GPCR_rCRF	rat	brain	Rat cortical membranes	gpcr	secretin receptor	corticotropin releasing hormone receptor 1	Crhr1	GPCR
NVS_GPCR_rGABBR	rat	brain	Rat cortical membranes	gpcr	metabotropic glutamate receptor	gamma-aminobutyric acid (GABA) B receptor 1	Gabbr1	GPCR
NVS_GPCR_rGalanin	rat	brain	Rat brain membranes	gpcr	rhodopsin-like receptor	galanin receptor 1	Galr1	GPCR
NVS_GPCR_rGHB	rat	brain	Rat forebrain	gpcr	metabotropic glutamate receptor	tetraspanin 17	Tspan17	GPCR
NVS_GPCR_rH3	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	histamine receptor H3	Hrh3	GPCR
NVS_GPCR_rmAdra2B	rat	brain	neuroglioma/blastoma hybrid cells	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2B	Adra2b	GPCR
NVS_GPCR_rmMGluR1	rat	brain	Rat cerebellum	gpcr	metabotropic glutamate receptor	glutamate receptor, metabotropic 1	Grm1	GPCR
NVS_GPCR_rmMGluR5	rat	brain	Rat whole brain	gpcr	metabotropic glutamate receptor	glutamate receptor, metabotropic 5	Grm5	GPCR
NVS_GPCR_RNK1	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	tachykinin receptor 1	Tacr1	GPCR
NVS_GPCR_rNK3	rat	brain	Rat cortical membranes	gpcr	rhodopsin-like receptor	tachykinin receptor 3	Tacr3	GPCR
NVS_GPCR_rNTS	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	neurotensin receptor 1	Ntsr1	GPCR
NVS_GPCR_rOpiate_NonSelective	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	opioid receptor, mu 1	Oprm1	GPCR
NVS_GPCR_rOpiate_NonSelectiveNa	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	opioid receptor, mu 1	Oprm1	GPCR
NVS_GPCR_rSST	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	somatostatin receptor 1	Sstr1	GPCR
NVS_GPCR_rTRH	rat	brain	Rat forebrain membranes	gpcr	rhodopsin-like receptor	thyrotropin releasing hormone receptor	Trhr	GPCR
NVS_GPCR_rVIP_NonSelective	rat	brain	Rat forebrain membranes	gpcr	secretin receptor	vasoactive intestinal peptide receptor 1	Vipr1	GPCR
NVS_IC_rCaBTZCHL	rat	brain	Rat cortical membranes	ion channel	calcium channel	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	Cacna1a	IC
NVS_IC_rCaChN	rat	brain	Rat cortical membranes	ion channel	calcium channel	calcium channel, voltage-dependent, N type, alpha 1B subunit	Cacna1b	IC
NVS_IC_rCaDHPRCh_L	rat	brain	Rat cortical membranes	ion channel	calcium channel	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	Cacna1a	IC
NVS_IC_rKAR	rat	brain	Rat forebrain membranes	ion channel	ligand-gated ion channel	glutamate receptor, ionotropic, kainate 1	Grik1	IC
NVS_IC_rKATPCh	rat	brain	Rat cortical membranes	ion channel	potassium channel	potassium inwardly-rectifying channel, subfamily J, member 1	Kcnj1	IC

* ToxPi categorization was only done on assays in the NVS platform due to manageability and grouping.

Table #2: Potential neuro-relevant assays from platforms Attagene (ATG), Novascreen (NVS), and Tox21.

AssayComponentEndpointName	Organism	Tissue	CellFreeComponentSource	IntendedTargetFamily	IntendedTargetFamilySub	GeneName	GeneSymbol	ToxPi Slice*
NVS_IC_rKCaCh	rat	brain	Rat forebrain membranes	ion channel	potassium channel	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	Kcnn1	IC
NVS_IC_rNaCh_site2	rat	brain	Rat forebrain membranes	ion channel	sodium channel	sodium channel, voltage-gated, type I, alpha subunit	Scn1a	IC
NVS_LGIC_bGABAR_Agonist	bovine	brain	Bovine cerebellar membranes	ion channel	ligand-gated ion channel	gamma-aminobutyric acid (GABA) A receptor, alpha 1	GABRA1	LGIC
NVS_LGIC_bGABARa1	bovine	brain	Bovine cortical membranes	ion channel	ligand-gated ion channel	gamma-aminobutyric acid (GABA) A receptor, alpha 1	GABRA1	LGIC
NVS_LGIC_bGABARa5	bovine	brain	Bovine hippocampal membranes	ion channel	ligand-gated ion channel	gamma-aminobutyric acid (GABA) A receptor, alpha 5	GABRA5	LGIC
NVS_LGIC_h5HT3	human	not applicable	HEK293	ion channel	ligand-gated ion channel	5-hydroxytryptamine (serotonin) receptor 3A, ionotropic	HTR3A	LGIC
NVS_LGIC_hNNR_NBungSens	human	brain	Human neuroblastoma membrane cells	ion channel	ligand-gated ion channel	cholinergic receptor, nicotinic, alpha 2 (neuronal)	CHRNA2	LGIC
NVS_LGIC_rAMPA	rat	brain	Rat forebrain membranes	ion channel	ligand-gated ion channel	glutamate receptor, ionotropic, AMPA 1	Gria1	LGIC
NVS_LGIC_rGABAR_NonSelective	rat	brain	Rat whole brain	ion channel	ligand-gated ion channel	gamma-aminobutyric acid (GABA) A receptor, alpha 1	Gabra1	LGIC
NVS_LGIC_rGABARa6	rat	brain	Rat cerebellar membranes	ion channel	ligand-gated ion channel	gamma-aminobutyric acid (GABA) A receptor, alpha 6	Gabra6	LGIC
NVS_LGIC_rGluNMDA_Agonist	rat	brain	Rat forebrain membranes	ion channel	ligand-gated ion channel	glutamate receptor, ionotropic, N-methyl D-aspartate 1	Grin1	LGIC
NVS_LGIC_rGluNMDA_MK801_Agonist	rat	brain	Rat forebrain membranes	ion channel	ligand-gated ion channel	glutamate receptor, ionotropic, N-methyl D-aspartate 1	Grin1	LGIC
NVS_LGIC_rGlyRStrySens	rat	brain	Rat spinal cord membranes	ion channel	ligand-gated ion channel	glycine receptor, alpha 1	Glra1	LGIC
NVS_LGIC_rNNR_BungSens	rat	brain	Rat cortical membranes	ion channel	ligand-gated ion channel	cholinergic receptor, nicotinic, alpha 7 (neuronal)	Chrna7	LGIC
NVS_NR_cAR	chimpanzee	not applicable	Sf9/Sf21	nuclear receptor	steroidal	androgen receptor	AR	NR
NVS_NR_hAR	human	not applicable	LnCAP	nuclear receptor	steroidal	androgen receptor	AR	NR
NVS_NR_hGR	human	not applicable	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	NR
NVS_NR_HTRA_ANTAGONIST	human	not applicable	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, alpha	THRA	NR
NVS_NR_rAR	rat	prostate	Testosterone pre-treated rat prostate	nuclear receptor	steroidal	androgen receptor	AR	NR
NVS_NR_rMR	rat	brain	Adrenalectomized rat brain supernatant	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 2	Nr3c2	NR
NVS_OR_gSIGMA_NonSelective	guinea pig	brain	Guinea pig brain membranes	misc protein	chaperone	sigma non-opioid intracellular receptor 1	Sigmar1	OR
NVS_TR_gDAT	guinea pig	brain	Guinea pig striatal membranes	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	Slc6a3	TR
NVS_TR_hAdoT	human	not applicable	U937	transporter	nucleoside transporter	solute carrier family 29 (equilibrative nucleoside transporter), member 1	Slc29a1	TR
NVS_TR_hDAT	human	not applicable	not applicable	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	Slc6a3	TR
NVS_TR_HNET	human	not applicable	not applicable	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter), member 2	Slc6a2	TR
NVS_TR_HSERT	human	vascular	Human platelet membranes	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter), member 4	Slc6a4	TR
NVS_TR_rAdoT	rat	brain	Rat forebrain membranes	transporter	nucleoside transporter	solute carrier family 29 (equilibrative nucleoside transporter), member 1	Slc29a1	TR
NVS_TR_rNET	rat	brain	Rat forebrain membranes	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter), member 2	Slc6a2	TR
NVS_TR_rSERT	rat	brain	Rat forebrain membranes	transporter	neurotransmitter transporter	solute carrier family 6 (neurotransmitter transporter), member 4	Slc6a4	TR
NVS_TR_rVMAT2	rat	brain	Rat forebrain	transporter	vesicular transporter	solute carrier family 18 (vesicular monoamine transporter), member 2	Slc18a2	TR
ATG_Ahr_CIS_dn	human	liver	not applicable	dna binding	basic helix-loop-helix protein	aryl hydrocarbon receptor	AHR	not applicable
ATG_Ahr_CIS_up	human	liver	not applicable	dna binding	basic helix-loop-helix protein	aryl hydrocarbon receptor	AHR	not applicable
ATG_AR_TRANS_dn	human	liver	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
ATG_AR_TRANS_up	human	liver	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
ATG_ERa_TRANS_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
ATG_ERa_TRANS_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
ATG_ERb_TRANS2_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 2 (ER beta)	ESR2	not applicable
ATG_ERb_TRANS2_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 2 (ER beta)	ESR2	not applicable
ATG_ERE_CIS_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
ATG_ERE_CIS_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
ATG_ERRa_TRANS_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor alpha	ESRRA	not applicable
ATG_ERRa_TRANS_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor alpha	ESRRA	not applicable
ATG_ERRb_TRANS2_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor beta	ESRRB	not applicable
ATG_ERRb_TRANS2_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor beta	ESRRB	not applicable
ATG_ERRg_TRANS_dn	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor gamma	ESRRG	not applicable
ATG_ERRg_TRANS_up	human	liver	not applicable	nuclear receptor	steroidal	estrogen-related receptor gamma	ESRRG	not applicable
ATG_GPCR_ADORA2A_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adenosine A2a receptor	ADORA2A	not applicable
ATG_GPCR_ADORA2A_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adenosine A2a receptor	ADORA2A	not applicable
ATG_GPCR_ADORA2B_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adenosine A2b receptor	ADORA2B	not applicable
ATG_GPCR_ADORA2B_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adenosine A2b receptor	ADORA2B	not applicable
ATG_GPCR_ADRA1A_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor alpha 1A	ADRA1A	not applicable
ATG_GPCR_ADRA1A_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor alpha 1A	ADRA1A	not applicable
ATG_GPCR_ADRA2B_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2B	ADRA2B	not applicable
ATG_GPCR_ADRA2B_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor alpha 2B	ADRA2B	not applicable
ATG_GPCR_ADRB2_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor beta 2	ADRB2	not applicable

* ToxPi categorization was only done on assays in the NVS platform due to manageability and grouping.

Table #2: Potential neuro-relevant assays from platforms Attagene (ATG), Novascreen (NVS), and Tox21.

AssayComponentEndpointName	Organism	Tissue	CellFreeComponentSource	IntendedTargetFamily	IntendedTargetFamilySub	GeneName	GeneSymbol	ToxPi Slice*
ATG_GPCR_ADRB2_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor beta 2	ADRB2	not applicable
ATG_GPCR_ADRB3_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor beta 3	ADRB3	not applicable
ATG_GPCR_ADRB3_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	adrenoceptor beta 3	ADRB3	not applicable
ATG_GPCR_CHRM3_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 3	CHRM3	not applicable
ATG_GPCR_CHRM3_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	cholinergic receptor, muscarinic 3	CHRM3	not applicable
ATG_GPCR_DRD1_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	dopamine receptor D1	DRD1	not applicable
ATG_GPCR_DRD1_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	dopamine receptor D1	DRD1	not applicable
ATG_GPCR_DRD5_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	dopamine receptor D5	DRD5	not applicable
ATG_GPCR_DRD5_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	dopamine receptor D5	DRD5	not applicable
ATG_GPCR_HRH1_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	histamine receptor H1	HRH1	not applicable
ATG_GPCR_HRH1_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	histamine receptor H1	HRH1	not applicable
ATG_GPCR_HTR6_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled	HTR6	not applicable
ATG_GPCR_HTR6_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled	HTR6	not applicable
ATG_GPCR_HTR7_TRANS_dn	human	liver	not applicable	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 7, adenylate cyclase-coupled	HTR7	not applicable
ATG_GPCR_HTR7_TRANS_up	human	liver	not applicable	gpcr	rhodopsin-like receptor	5-hydroxytryptamine (serotonin) receptor 7, adenylate cyclase-coupled	HTR7	not applicable
ATG_GR_TRANS_dn	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
ATG_GR_TRANS_up	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
ATG_GRE_CIS_dn	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
ATG_GRE_CIS_up	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
ATG_MR_TRANS2_dn	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 2 (glucocorticoid receptor)	NR3C2	not applicable
ATG_MR_TRANS2_up	human	liver	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 2 (glucocorticoid receptor)	NR3C2	not applicable
ATG_THRa1_TRANS_dn	human	liver	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, alpha|	THRA	not applicable
ATG_THRa1_TRANS_up	human	liver	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, alpha	THRA	not applicable
ATG_THRb_TRANS2_dn	human	liver	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, beta	THRB	not applicable
ATG_THRb_TRANS2_up	human	liver	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, beta	THRB	not applicable
TOX21_AhR_LUC_Agonist	human	liver	not applicable	DNA binding	basic helix-loop-helix protein	aryl hydrocarbon receptor	AHR	not applicable
TOX21_AR_BLA_Agonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_AR_BLA_Antagonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_AR_LUC_MDAKB2_Agonist	human	breast	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_AR_LUC_MDAKB2_Agonist_3uM_Nilutamide	human	breast	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_AR_LUC_MDAKB2_Antagonist_0.5nM_R1881	human	breast	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_AR_LUC_MDAKB2_Antagonist_10nM_R1881	human	breast	not applicable	nuclear receptor	steroidal	androgen receptor	AR	not applicable
TOX21_ARE_BLA_agonist_ratio	human	liver	not applicable	DNA binding	basic leucine zipper	nuclear factor, erythroid 2-like 2	NFE2L2	not applicable
TOX21_ERa_BLA_Agonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
TOX21_ERa_BLA_Antagonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	estrogen receptor 1	ESR1	not applicable
TOX21_ERb_BLA_Agonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	estrogen receptor 2 (ER beta)	ESR2	not applicable
TOX21_ERb_BLA_Antagonist_ratio	human	kidney	not applicable	nuclear receptor	steroidal	estrogen receptor 2 (ER beta)	ESR2	not applicable
TOX21_ERR_Agonist	human	kidney	not applicable	nuclear receptor	orphan	estrogen-related receptor alpha	ESRRA	not applicable
TOX21_ERR_Antagonist	human	kidney	not applicable	nuclear receptor	orphan	estrogen-related receptor alpha	ESRRA	not applicable
TOX21_ESRE_BLA_ratio	human	cervix	not applicable	DNA binding	basic leucine zipper	activating transcription factor 6	ATF6	not applicable
TOX21_GR_BLA_Agonist_ratio	human	cervix	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
TOX21_GR_BLA_Antagonist_ratio	human	cervix	not applicable	nuclear receptor	steroidal	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	NR3C1	not applicable
TOX21_PGC_ERR_AGONIST	human	kidney	not applicable	nuclear receptor	orphan	estrogen-related receptor alpha	ESRRA	not applicable
TOX21_PGC_ERR_ANTAGONIST	human	kidney	not applicable	nuclear receptor	orphan	estrogen-related receptor alpha	ESRRA	not applicable
TOX21_TR_LUC_GH3_Agonist	rat	pituitary gland	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, alpha|thyroid hormone receptor, beta	THRA|THRB|	not applicable
TOX21_TR_LUC_GH3_Antagonist	rat	pituitary gland	not applicable	nuclear receptor	non-steroidal	thyroid hormone receptor, alpha|thyroid hormone receptor, beta	THRA|THRB|	not applicable
TOX21_TSHR_Agonist_ratio	human	kidney	not applicable	gpcr	not applicable	thyroid stimulating hormone receptor	TSHR	not applicable
TOX21_TSHR_Antagonist_ratio	human	kidney	not applicable	gpcr	not applicable	thyroid stimulating hormone receptor	TSHR	not applicable
TOX21_TSHR_wt_ratio	human	kidney	not applicable	gpcr	baseline control	thyroid stimulating hormone receptor	TSHR	not applicable

* ToxPi categorization was only done on assays in the NVS platform due to manageability and grouping.

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
ACEA_AR_AGONIST_80HR	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_AR_AGONIST_AUC_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_AR_ANTAGONIST_80HR	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
ACEA_AR_ANTAGONIST_AUC_VIABILITY	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_ER_80HR	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_ER_AUC_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_APOPTOSIS_48HR_UP	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_24HR_DN	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_48HR_DN	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_CELLLOSS_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_24HR_UP	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNADAMAGE_48HR_UP	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_DNATEXTURE_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_LYSOSOMALMASS_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_MITOFXNI_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_MITOFXNI_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_MITOFXNI_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_MITOFXNI_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_MITOFXNI_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
APR_HEPAT_MITOFXNI_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_NUCLEARSIZE_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_STEATOSIS_1HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_STEATOSIS_1HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_STEATOSIS_24HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_STEATOSIS_24HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
APR_HEPAT_STEATOSIS_48HR_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPAT_STEATOSIS_48HR_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLCYCLEARREST_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_24H_DN	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_72H_DN	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_CELLLOSS_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MICROTUBULECSK_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMASS_72H_UP	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMEMBPOT_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMEMBPOT_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMEMBPOT_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMEMBPOT_72H_DN	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOMEMBPOT_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_MITOTICARREST_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_NUCLEARSIZE_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_1H_UP	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_24H_UP	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_OXIDATIVESTRESS_72H_UP	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_P53ACT_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_P53ACT_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_P53ACT_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
APR_HEPG2_P53ACT_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_P53ACT_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_P53ACT_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_1H_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_1H_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_24H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_24H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_72H_DN	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HEPG2_STRESSKINASE_72H_UP	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AHR_CIS_DN	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AHR_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AP_1_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AP_1_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AP_2_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AP_2_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_AR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_BRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_BRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_C_EBP_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_C_EBP_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CAR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CAR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CMV_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CMV_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_CRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_DR4_LXR_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_DR4_LXR_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_DR5_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_DR5_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_E_BOX_CIS_DN	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_E_BOX_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_E2F_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_E2F_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_EGR_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_EGR_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERA_TRANS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive
ATG_ERRA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRA_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRG_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ERRG_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ETS_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ETS_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_FOXA2_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_FOXA2_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_FOXO_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_FOXO_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_FXR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
ATG_FXR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GAL4_TRANS_DN	not tested	not tested	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
ATG_GAL4_TRANS_UP	not tested	not tested	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
ATG_GATA_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GATA_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GLI_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GLI_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_GRE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HIF1A_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HIF1A_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HNF4A_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HNF4A_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HNF6_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HNF6_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HPA5_TRANS_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HPA5_TRANS_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HSE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_HSE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_IR1_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_IR1_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ISRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_ISRE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_LXRA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_LXRA_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_LXRB_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_LXRB_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_06_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_06_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_06_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_06_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_19_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_19_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_19_TRANS_DN	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_19_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_32_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_32_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_32_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_32_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_61_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_61_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_61_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_M_61_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MYB_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MYB_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MYC_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_MYC_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NF_KB_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
ATG_NF_KB_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NFI_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NFI_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NRF1_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NRF1_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NRF2_ARE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NRF2_ARE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NURR1_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_NURR1_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_OCT_MLP_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_OCT_MLP_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_P53_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_P53_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PAX6_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PAX6_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PBREM_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PBREM_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARA_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARD_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARD_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARG_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPARG_TRANS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PPRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PXR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PXR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_PXRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive
ATG_PXRE_CIS_UP	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARA_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARB_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARB_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARG_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RARG_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORB_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORB_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORG_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RORG_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RXRA_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RXRA_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RXRB_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_RXRB_TRANS_UP	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SOX_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SOX_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SP1_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SP1_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SREBP_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_SREBP_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_STAT3_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
ATG_STAT3_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TA_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TA_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TAL_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TAL_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TCF_B_CAT_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TCF_B_CAT_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TGFB_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_TGFB_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_THRA1_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_THRA1_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_VDR_TRANS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_VDR_TRANS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_VDRE_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_VDRE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_XBP1_CIS_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ATG_XBP1_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
ATG_XTT_CYTOTOXICITY_UP	not tested	not tested	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
BSK_3C_ESELECTIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_ESELECTIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_HLADR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_HLADR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ICAM1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ICAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_IL8_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_PROLIFERATION_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_PROLIFERATION_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_SRB_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_SRB_UP	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_THROMBOMODULIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_THROMBOMODULIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_TISSUEFACTOR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_TISSUEFACTOR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_UPAR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_UPAR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_VCAM1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_VCAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_VIS_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_3C_VIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_EOTAXIN3_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_EOTAXIN3_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_PSELECTIN_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_4H_PSELECTIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_4H_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
BSK_4H_UPAR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_UPAR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_4H_VCAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_VEGFRII_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_VEGFRII_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_HLADR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_HLADR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
BSK_BE3C_IL1A_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IL1A_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
BSK_BE3C_IP10_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IP10_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MMP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MMP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_PAI1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_PAI1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_BE3C_TPA_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TPA_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_UPA_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_UPA_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_UPAR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_UPAR_UP	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_HLADR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_HLADR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_LDLR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_LDLR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_CASM3C_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCSF_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCSF_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_PROLIFERATION_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_PROLIFERATION_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_SAA_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_SAA_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_THROMBOMODULIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_THROMBOMODULIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_TISSUEFACTOR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_TISSUEFACTOR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
BSK_CASM3C_UPAR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_UPAR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_VCAM1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_VCAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_COLLAGENIII_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_HDFCGF_COLLAGENIII_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_EGFR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_EGFR_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IP10_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_HDFCGF_IP10_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MCSF_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_HDFCGF_MCSF_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MIG_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MMP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MMP1_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_PAI1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_PAI1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_PROLIFERATION_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_PROLIFERATION_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_TIMP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_HDFCGF_TIMP1_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_HDFCGF_VCAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IP10_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_KF3CT_IP10_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_KF3CT_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MMP9_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MMP9_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TIMP2_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TIMP2_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_UPA_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_UPA_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_CD40_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_LPS_CD40_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_ESELECTIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_ESELECTIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
BSK_LPS_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL8_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCSF_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_LPS_MCSF_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_PGE2_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_PGE2_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result
BSK_LPS_SRB_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_LPS_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TISSUEFACTOR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TISSUEFACTOR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_VCAM1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_CD38_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_CD38_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive
BSK_SAG_CD40_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_CD40_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_CD69_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_CD69_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_ESELECTIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_ESELECTIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_IL8_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_MCP1_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_PBMCCYTOTOXICITY_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_PBMCCYTOTOXICITY_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_PROLIFERATION_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_PROLIFERATION_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_SRB_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
BSK_SAG_SRB_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CEETOX_H295R_11DCORT_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, active result
CEETOX_H295R_11DCORT_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ANDR_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ANDR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_CORTIC_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_CORTIC_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_CORTISOL_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, active result
CEETOX_H295R_CORTISOL_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_DOC_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, active result
CEETOX_H295R_DOC_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ESTRADIOL_DN	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ESTRADIOL_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ESTRONE_DN	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_ESTRONE_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_MTT_CYTOTOXICITY_DN	tested, but inactive	tested, but inactive	tested, active result	tested, active result	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_MTT_CYTOTOXICITY_UP	tested, but inactive	tested, but inactive	tested, active result	tested, active result	not tested	not tested	not tested	not tested	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
CEETOX_H295R_OHPREG_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_OHPREG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_OHPROG_DN	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_OHPROG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, active result
CEETOX_H295R_PROG_DN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_PROG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, active result
CEETOX_H295R_TESTO_DN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	not tested	not tested	not tested	not tested	tested, but inactive
CEETOX_H295R_TESTO_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
CLD_ABCB1_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCB1_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCB1_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCB11_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCB11_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCB11_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCG2_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCG2_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ABCG2_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ACTIN_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ACTIN_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_ACTIN_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP1A1_24HR	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP1A1_48HR	tested, but inactive	tested, active result	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP1A1_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP1A2_24HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP1A2_48HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP1A2_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP2B6_24HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP2B6_48HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP2B6_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP2C19_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP2C19_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP2C19_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP2C9_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP2C9_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP2C9_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP3A4_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_CYP3A4_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_CYP3A4_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GAPDH_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GAPDH_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GAPDH_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GSTA2_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GSTA2_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_GSTA2_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_HMGCS2_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_HMGCS2_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_HMGCS2_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_SLCO1B1_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_SLCO1B1_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_SLCO1B1_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_SULT2A_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_SULT2A_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
CLD_SULT2A_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
CLD_UGT1A1_24HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_UGT1A1_48HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
CLD_UGT1A1_6HR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NCCT_HEK293T_CELLTITERGLO	tested, but inactive	not tested	not tested	tested, active result	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NCCT_QUANTILUM_INHIB_2_DN	tested, active result	not tested	not tested	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NCCT_QUANTILUM_INHIB_DN	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, active result	not tested	tested, active result	tested, active result
NCCT_TPO_AUR_DN	tested, active result	not tested	not tested	tested, active result	tested, active result	tested, active result	not tested	tested, active result	tested, active result
NCCT_TPO_GUA_DN	tested, active result	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NHEERL_MHC_CELLCOUNT_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NHEERL_MHC_CELLCOUNT_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NHEERL_MHC_MHCVCELLCOUNT_DN	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NHEERL_MHC_MHCVCELLCOUNT_UP	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NHEERL_ZF_144HPF_TERATOSCORE_UP	tested, but inactive	tested, active result	not tested	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result
NIS_HEK293T_CTG_CYTOTOXICITY	not tested	not tested	not tested	tested, active result	tested, active result	not tested	not tested	not tested	not tested
NIS_RAIU_INHIBITION	not tested	not tested	not tested	tested, active result	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ADME_HCYP19A1	tested, but inactive	tested, active result	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_ADME_HCYP19A1_ACTIVATOR	tested, but inactive	tested, but inactive	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_ADME_HCYP1A1	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP1A1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP1A2	not tested	tested, active result	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP1A2_ACTIVATOR	not tested	tested, but inactive	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2A6	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2A6_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2B6	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2B6_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2C18	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2C18_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2C19	not tested	not tested	not tested	not tested	tested, active result	not tested	tested, active result	not tested	tested, active result
NVS_ADME_HCYP2C19_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	not tested	tested, but inactive
NVS_ADME_HCYP2C9	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2C9_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2D6	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2D6_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2E1	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2E1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_HCYP2J2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_HCYP2J2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP1A1	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP1A1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP1A2	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP1A2_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP2A1	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2A1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP2A2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2A2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP2C11	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2C11_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP2C12	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2C12_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP2C13	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2C13_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
NVS_ADME_RCYP2C6	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP2C6_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP3A1	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP3A1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ADME_RCYP3A2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_ADME_RCYP3A2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HACHE	not tested	tested, active result	tested, active result	not tested	tested, active result	tested, active result	not tested	not tested	tested, but inactive
NVS_ENZ_HACHE_ACTIVATOR	not tested	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive
NVS_ENZ_HAKT1	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_ENZ_HAKT1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_ENZ_HCASP3	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HCASP3_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HCDK2	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HCDK2_ACTIVATOR	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HDUSP3	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HDUSP3_ACTIVATOR	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HDYRK1A	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_HDYRK1A_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_HELASTASE	tested, but inactive	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HELASTASE_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HEPHB1	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HEPHB1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HEPHB2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_HEPHB2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_HES	not tested	not tested	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	not tested	tested, but inactive
NVS_ENZ_HES_ACTIVATOR	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive
NVS_ENZ_HFGFR3	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_HFGFR3_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_HFYN	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HFYN_ACTIVATOR	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HIRAK4	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HIRAK4_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HJNK2	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_HJNK2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_HMARK1	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HMARK1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HMMP2	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HMMP2_ACTIVATOR	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HPDE4A1	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPDE4A1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPDE5	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPDE5_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPPP2CA	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HPPP2CA_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HPTEN	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPTEN_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPTPN1	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPTPN1_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPTPN14	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPTPN14_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_HPTPN2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPTPN2_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HPTPN6	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HPTPN6_ACTIVATOR	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HSGK1	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HSGK1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_HSYK	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
NVS_ENZ_HSYK_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_ENZ_HVEGFR1	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HVEGFR1_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HVEGFR2	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_HVEGFR2_ACTIVATOR	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_OCOX1	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_OCOX1_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_PMTHFR	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_PMTHFR_ACTIVATOR	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_ENZ_RACHE	not tested	tested, active result	tested, active result	not tested	tested, active result	tested, active result	not tested	not tested	tested, but inactive
NVS_ENZ_RACHE_ACTIVATOR	not tested	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive
NVS_ENZ_RCNOS	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RCNOS_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RCOMT	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_RCOMT_ACTIVATOR	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOAC	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOAC_ACTIVATOR	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOAP	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOAP_ACTIVATOR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOBC	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_RMAOBC_ACTIVATOR	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_ENZ_RMAOBP	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_ENZ_RMAOBP_ACTIVATOR	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_BH1	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_GPCR_GLTB4	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_GLTD4	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_GPCR_GMPERIPHERAL_NONSELECTIVE	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_H5HT2A	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_H5HT7	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_HADRB3	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_HDRD1	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_HH1	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_HLTB4_BLT1	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_GPCR_HM2	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, active result
NVS_GPCR_HM4	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_HNPY2	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_GPCR_HNTS	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_MCKKBCENTRAL	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_R5HT1_NONSELECTIVE	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_GPCR_RABPAF	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_GPCR_RADRA1A	not tested	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_RADRA1B	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_GPCR_RGABBR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RGHB	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_RH3	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_GPCR_RNTS	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_GPCR_ROPIATE_NONSELECTIVE	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_ROPIATE_NONSELECTIVENA	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_RSST	not tested	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested
NVS_GPCR_RTRH	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_GPCR_RV1	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_GPCR_RVIP_NONSELECTIVE	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested
NVS_IC_RCACHN	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested
NVS_IC_RKAR	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NVS_IC_RKATPCH	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested
NVS_LGIC_BGABARA1	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive
NVS_LGIC_RGABAR_NONSELECTIVE	not tested	not tested	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
NVS_LGIC_RNNR_BUNGSENS	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_MP_HPBR	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_MP_RPBR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_NR_BER	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_NR_BPR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_NR_CAR	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_NR_HAR	tested, but inactive	tested, but inactive	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_NR_HCAR_AGONIST	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_NR_HCAR_ANTAGONIST	tested, but inactive	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_NR_HER	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_NR_HFXR_AGONIST	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive	not tested
NVS_NR_HFXR_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_NR_HGR	tested, active result	tested, active result	not tested	not tested	not tested	tested, active result	not tested	tested, but inactive	tested, active result
NVS_NR_HPPARG	tested, but inactive	tested, but inactive	not tested	tested, but inactive	not tested	tested, active result	not tested	tested, but inactive	tested, but inactive
NVS_NR_HPR	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_NR_HPXR	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested
NVS_NR_HRAR_ANTAGONIST	tested, but inactive	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_NR_HTRA_ANTAGONIST	tested, but inactive	tested, but inactive	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, active result
NVS_NR_MERA	not tested	tested, but inactive	not tested	tested, but inactive	not tested	not tested	not tested	not tested	tested, but inactive
NVS_NR_RAR	tested, but inactive	tested, but inactive	not tested	not tested	not tested	tested, but inactive	not tested	tested, but inactive	tested, but inactive
NVS_OR_GSIGMA_NONSELECTIVE	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_OR_HFKBP12	not tested	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested
NVS_TR_GDAT	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_TR_HDAT	not tested	not tested	not tested	not tested	tested, but inactive	not tested	not tested	not tested	tested, active result
NVS_TR_HSERT	not tested	tested, but inactive	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
NVS_TR_RNET	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	tested, but inactive
NVS_TR_RSERT	not tested	tested, active result	not tested	not tested	not tested	not tested	not tested	not tested	tested, active result
OT_AR_ARELUC_AG_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_AR_ARSRC1_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_AR_ARSRC1_0960	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERAERA_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERAERA_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERAERB_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERAERB_1440	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERBERB_0480	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ER_ERBERB_1440	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ERA_EREGFP_0120	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_ERA_EREGFP_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_FXR_FXRSRC1_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
OT_FXR_FXRSRC1_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
OT_NURR1_NURR1RXRA_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_NURR1_NURR1RXRA_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_PPARG_PPARGSRC1_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
OT_PPARG_PPARGSRC1_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_ACTIVITYSCORE	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_AXIS_UP	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_BRAI_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_CFIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_CIRC_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_EYE_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_JAW_UP	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_MORT_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
TANGUAY_ZF_120HPF_NC_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_OTIC_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_PE_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_PFIN_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_PIG_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_SNOU_UP	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_SOMI_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_SWIM_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_TR_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_TRUN_UP	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TANGUAY_ZF_120HPF_YSE_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AHR_LUC_AGONIST	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AHR_LUC_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AP1_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AP1_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AP1_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AP1_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AR_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST_COUNTERSCREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST2_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AR_LUC_MDAKB2_ANTAGONIST	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AR_LUC_MDAKB2_ANTAGONIST_SPECIFICITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_ANTAGONIST_SPECIFICITY_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AR_LUC_MDAKB2_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ARE_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ARE_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ARE_BLA_AGONIST_RATIO	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
TOX21_ARE_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AROMATASE_INHIBITION	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_AROMATASE_INHIBITION_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_CELL_BLUE	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_CELL_GREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_CELL_RED	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_MEDIA_BLUE	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_MEDIA_GREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEK293_MEDIA_RED	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_CELL_BLUE	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_CELL_GREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_CELL_RED	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_MEDIA_BLUE	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_MEDIA_GREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AUTOFLUOR_HEPG2_MEDIA_RED	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_CAR_AGONIST	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_CAR_AGONIST_VIABILLITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_CAR_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
TOX21_CAR_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_DT40	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_DT40_100	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_DT40_657	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ELG1_LUC_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ELG1_LUC_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ERA_BLA_ANTAGONIST_RATIO	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_AGONIST	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ERA_LUC_BG1_AGONIST_COUNTERSCREEN	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_AGONIST_COUNTERSCREEN_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ERA_LUC_BG1_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_ANTAGONIST_SPECIFICITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_ANTAGONIST_SPECIFICITY_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_ESRE_BLA_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ESRE_BLA_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ESRE_BLA_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ESRE_BLA_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_H2AX_HTRF_CHO_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_H2AX_HTRF_CHO_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
TOX21_H2AX_HTRF_CHO_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_H2AX_HTRF_CHO_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HDAC_INHIBITION	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HDAC_INHIBITION_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HRE_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HRE_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HRE_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HRE_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HSE_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HSE_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HSE_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HSE_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_LUC_BIOCHEM	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_FITC	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_RATIO_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_RATIO_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_RHODAMINE	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_NFKB_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_NFKB_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_NFKB_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_NFKB_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P1_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P1_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P1_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P1_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P2_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P2_CH2	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P2_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P2_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P3_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P3_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P3_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P3_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P4_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P4_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P4_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P4_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P5_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P5_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P5_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_P53_BLA_P5_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PGC_ERR_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PGC_ERR_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_PGC_ERR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_PPARD_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARD_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
TOX21_PPARD_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARG_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RAR_LUC_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RAR_LUC_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RAR_LUC_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RAR_LUC_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RORG_LUC_CHO_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RORG_LUC_CHO_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_FLO_00HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_08HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_16HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_24HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_32HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_40HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_GLO_00HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_GLO_08HR_VIABILITY	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_GLO_16HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_GLO_24HR_VIABILITY	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_GLO_32HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_GLO_40HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_00HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_08HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_16HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_24HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_32HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_40HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_00HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_08HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_16HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_24HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_32HR_CTRL_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_40HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RXR_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RXR_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RXR_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive
TOX21_RXR_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_SSH_3T3_GLI3_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_SSH_3T3_GLI3_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_SSH_3T3_GLI3_ANTAGONIST	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_SSH_3T3_GLI3_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result
TOX21_TR_LUC_GH3_AGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TR_LUC_GH3_ANTAGONIST	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TR_LUC_GH3_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #3: Assay subset derived from the activity results across the nine organophosphate pesticides (DNT models)

ASSAY	Acephate (30560-19-1)	Carbaryl (63-25-2)	Carbofuran (1563-66-2)	Chlorpyrifos (2921-88-2)	Chlorpyrifos-oxon (5598-15-2)	Dichlorvos (62-73-7)	Dicrotophos (141-66-2)	Methamidophos (10265-92-6)	Methyl Parathion (298-00-0)
TOX21_TSHR_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_HTRF_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_HTRF_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_WT_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_WT_HTRF_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_TSHR_WT_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_AGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_AGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_AGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_AGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_ANTAGONIST_CH1	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_ANTAGONIST_CH2	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_ANTAGONIST_RATIO	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOTAL NUMBER OF ACTIVE ASSAYS	807	804	668	633	791	783	760	776	873
TOTAL NUMBER OF TESTED ASSAYS	10	93	21	125	156	57	7	12	115
PERCENT ACTIVE	1%	12%	3%	20%	20%	7%	1%	2%	13%

Table #4: Assay subset derived from activity in nine organophosphate pesticides; filtered by assay activity in at least 3 chemicals. Cell viability assays not included.

ASSAY	Acephate 30560-19-1	Carbaryl 63-25-2	Carbofuran 1563-66-2	Chlorpyrifos 2921-88-2	Chlorpyrifos-oxon 5598-15-2	Dichlorvos 62-73-7	Dicrotophos 141-66-2	Methamidophos 10265-92-6	Methyl Parathion 298-00-0	number of hits*
ACEA_AR_ANTAGONIST_8HR	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	4
ACEA_AR_ANTAGONIST_AUC_VIABILITY	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
ATG_AP_1_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_CMV_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
ATG_ERA_TRANS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_ERE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	4
ATG_MRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
ATG_NRF2_ARE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
ATG_OCT_MLP_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
ATG_PPARG_TRANS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_PPRE_CIS_UP	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_PXRE_CIS_UP	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	6
ATG_SREBP_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_VDRE_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	3
ATG_XBP1_CIS_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	3
BSK_3C_ESELECTIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	3
BSK_3C_HLADR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	4
BSK_3C_IL8_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_3C_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	3
BSK_3C_UPAR_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_3C_VIS_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
BSK_4H_EOTAXIN3_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	3
BSK_4H_PSELECTIN_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
BSK_4H_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	4
BSK_HDFCGF_COLLAGENIII_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_HDFCGF_IP10_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	4

*number of pesticides that tested active for the assay

Table #4: Assay subset derived from activity in nine organophosphate pesticides; filtered by assay activity in at least 3 chemicals. Cell viability assays not included.

ASSAY	Acephate 30560-19-1	Carbaryl 63-25-2	Carbofuran 1563-66-2	Chlorpyrifos 2921-88-2	Chlorpyrifos-oxon 5598-15-2	Dichlorvos 62-73-7	Dicrotophos 141-66-2	Methamidophos 10265-92-6	Methyl Parathion 298-00-0	number of hits*
BSK_HDFCGF_MCSF_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	4
BSK_HDFCGF_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
BSK_KF3CT_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_LPS_CD40_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
BSK_LPS_MCSF_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
BSK_LPS_PGE2_UP	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, active result	3
BSK_LPS_VCAM1_DOWN	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	4
BSK_SAG_CD38_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_SAG_CD40_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_SAG_CD69_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
BSK_SAG_ESELECTIN_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	3
BSK_SAG_MCP1_DOWN	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP1A1_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP1A2_24HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP1A2_48HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP1A2_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP2B6_24HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP2B6_48HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
CLD_CYP2B6_6HR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	4
NCCT_QUANTILUM_INHIB_DN	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, active result	not tested	tested, active result	tested, active result	4
NCCT_TPO_AUR_DN	tested, active result	not tested	not tested	tested, active result	tested, active result	tested, active result	not tested	tested, active result	tested, active result	6
NHEERL_ZF_144HPF_TERATOSCORE_UP	tested, but inactive	tested, active result	not tested	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, active result	5
NVS_ADME_HCYP1A2	not tested	tested, active result	not tested	not tested	tested, active result	not tested	not tested	not tested	tested, active result	3
NVS_ADME_HCYP2C19	not tested	not tested	not tested	not tested	tested, active result	not tested	tested, active result	not tested	tested, active result	3
NVS_ENZ_HACHE	not tested	tested, active result	tested, active result	not tested	tested, active result	tested, active result	not tested	not tested	tested, but inactive	4

*number of pesticides that tested active for the assay

Table #4: Assay subset derived from activity in nine organophosphate pesticides; filtered by assay activity in at least 3 chemicals. Cell viability assays not included.

ASSAY	Acephate 30560-19-1	Carbaryl 63-25-2	Carbofuran 1563-66-2	Chlorpyrifos 2921-88-2	Chlorpyrifos-oxon 5598-15-2	Dichlorvos 62-73-7	Dicrotophos 141-66-2	Methamidophos 10265-92-6	Methyl Parathion 298-00-0	number of hits*
NVS_ENZ_HES	not tested	not tested	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	not tested	tested, but inactive	5
NVS_ENZ_RACHE	not tested	tested, active result	tested, active result	not tested	tested, active result	tested, active result	not tested	not tested	tested, but inactive	4
NVS_MP_HPBR	tested, but inactive	tested, active result	tested, but inactive	not tested	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result	3
NVS_MP_RPBR	tested, but inactive	tested, active result	not tested	not tested	tested, active result	tested, but inactive	not tested	tested, but inactive	tested, active result	3
NVS_NR_HGR	tested, active result	tested, active result	not tested	not tested	not tested	tested, active result	not tested	tested, but inactive	tested, active result	4
OT_FXR_FXRSRC1_0480	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
OT_FXR_FXRSRC1_1440	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
TOX21_AHR_LUC_AGONIST	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	3
TOX21_ARE_BLA_AGONIST_RATIO	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result	4
TOX21_DT40	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	5
TOX21_DT40_100	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	5
TOX21_DT40_657	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	5
TOTAL NUMBER OF TESTED ASSAYS	58	59	49	49	62	61	55	58	63	
TOTAL NUMBER OF ACTIVE ASSAYS	3	41	7	47	53	31	4	3	44	
PERCENT ACTIVE	5%	69%	14%	96%	85%	51%	7%	5%	70%	

*number of pesticides that tested active for the assay

Table #5: Assays under the two subsets for oxidative stress and inflammation as grouped in Iyer et al., 2019

ASSAY	Biological Process	Molecular Target	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 40	FD&C Yellow No. 5	FD&C Yellow No. 6
BSK_3C_ICAM1_DOWN	induces oxidative stress	intercellular adhesion molecule 1	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_ICAM1_UP	induces oxidative stress	intercellular adhesion molecule 1	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_IL8_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_IL8_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_MIG_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IL1A_DOWN	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_IL1A_UP	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_MIG_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_DOWN	induces oxidative stress	interleukin 6	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL6_UP	induces oxidative stress	interleukin 6	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_IL8_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_MIG_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_IL8_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MIG_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_MIG_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_DOWN	induces oxidative stress	intercellular adhesion molecule 1	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_ICAM1_UP	induces oxidative stress	intercellular adhesion molecule 1	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_DOWN	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_IL1A_UP	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_DOWN	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL1A_UP	induces oxidative stress	interleukin 1, alpha	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #5: Assays under the two subsets for oxidative stress and inflammation as grouped in Iyer et al., 2019

ASSAY	Biological Process	Molecular Target	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 40	FD&C Yellow No. 5	FD&C Yellow No. 6
BSK_LPS_IL8_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_IL8_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_IL8_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_IL8_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 8; interleukin	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MCP1_DOWN	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MCP1_UP	induces oxidative stress	chemokine (C-C motif) ligand 2; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_DOWN	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_MIG_UP	induces oxidative stress	chemokine (C-X-C motif) ligand 9; chemotactic factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_DOWN	induces oxidative stress and chronic inflammation	tumor necrosis factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_TNFA_UP	induces oxidative stress and chronic inflammation	tumor necrosis factor	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_DOWN	induces chronic inflammation	transforming growth factor, beta 1	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_TGFB1_UP	induces chronic inflammation	transforming growth factor, beta 1	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_DOWN	induces chronic inflammation	transforming growth factor, beta 1	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_TGFB1_UP	induces chronic inflammation	transforming growth factor, beta 1	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOTAL NUMBER OF TESTED ASSAYS			50	0	0	50	50	50	50
TOTAL NUMBER OF ACTIVE ASSAYS			0	0	0	16	0	0	0
PERCENT ACTIVE			0%	0%	0%	32%	0%	0%	0%

Table #6: Activity of food dyes in 88 cytotoxicity/cell viability assays.

ASSAYS	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 40	FD&C Yellow No. 5	FD&C Yellow No. 6
ACEA_AR_agonist_AUC_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_AR_antagonist_AUC_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
ACEA_ER_AUC_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
APR_HepG2_CellLoss_24h_dn	tested, but inactive	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive
APR_HepG2_CellLoss_72h_dn	tested, but inactive	not tested	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_PROLIFERATION_DOWN	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_3C_SRB_DOWN	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_4H_SRB_DOWN	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_BE3C_SRB_down	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_PROLIFERATION_DOWN	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_CASM3C_SRB_down	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_HDFCGF_PROLIFERATION_DOWN	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_hDFCGF_SRB_down	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_KF3CT_SRB_down	tested, but inactive	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_LPS_SRB_DOWN	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAG_PROLIFERATION_DOWN	tested, active result	not tested	not tested	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
BSK_SAg_SRB_down	tested, but inactive	not tested	not tested	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
NHEERL_GSC_CellCount_dn	not tested	not tested	not tested	not tested	not tested	not tested	not tested
NHEERL_GSC_GSCvCellCount_dn	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_AHR_LUC_AGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_AR_BLA_ANTAGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_AR_LUC_MDAKB2_AGONIST2_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_AR_LUC_MDAKB2_ANTAGONIST_SPECIFICITY_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_AR_LUC_MDAKB2_ANTAGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ARE_BLA_AGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_Aromatase_Inhibition_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_CAR_Agonist_viabillity	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_CAR_Antagonist_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_CASP3_CHO_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_CASP3_HEPG2_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_ELG1_LUC_Agonist_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ERA_BLA_ANTAGONIST_VIABILITY	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERA_LUC_BG1_AGONIST_COUNTERSCREEN_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ERA_LUC_BG1_ANTAGONIST_SPECIFICITY_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ERA_LUC_BG1_ANTAGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ERB_BLA_AGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERB_BLA_ANTAGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_ERR_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_ESRE_BLA_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_agonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_FXR_BLA_antagonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_GR_BLA_Antagonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_H2AX_HTRF_CHO_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_HDAC_Inhibition_viability	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_HRE_BLA_Agonist_viability	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_HSE_BLA_agonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_MMP_viability	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_NFkB_BLA_agonist_viability	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive

Table #6: Activity of food dyes in 88 cytotoxicity/cell viability assays.

ASSAYS	FD&C Blue No. 1	FD&C Blue No. 2	FD&C Green No. 3	FD&C Red No. 3	FD&C Red No. 40	FD&C Yellow No. 5	FD&C Yellow No. 6
TOX21_p53_BLA_p1_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_p53_BLA_p2_viability	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_p53_BLA_p3_viability	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_p53_BLA_p4_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_p53_BLA_p5_viability	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PGC_ERR_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_PPARd_BLA_Agonist_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARd_BLA_antagonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PPARg_BLA_antagonist_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_PR_BLA_Agonist_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_PR_BLA_Antagonist_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_PXR_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_RAR_LUC_Agonist_viability	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_RAR_LUC_Antagonist_viability	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_RORg_LUC_CHO_Antagonist_viability	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_FLO_16hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_FLO_24hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEK293_FLO_32hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_FLO_40hr_viability	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result	tested, but inactive
TOX21_RT_HEK293_GLO_16hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
TOX21_RT_HEK293_GLO_24HR_VIABILITY	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
TOX21_RT_HEK293_GLO_32hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
TOX21_RT_HEK293_GLO_40hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, active result
TOX21_RT_HEPG2_FLO_16hr_ctrl_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_24hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_32hr_ctrl_viability	tested, but inactive	tested, active result	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_FLO_40hr_ctrl_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_RT_HEPG2_GLO_16hr_ctrl_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result
TOX21_RT_HEPG2_GLO_24hr_ctrl_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result
TOX21_RT_HEPG2_GLO_32hr_ctrl_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result
TOX21_RT_HEPG2_GLO_40hr_viability	tested, but inactive	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, active result
TOX21_RXR_BLA_Agonist_viability	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_SBE_BLA_Agonist_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_SBE_BLA_Antagonist_viability	not tested	not tested	not tested	not tested	not tested	not tested	not tested
TOX21_SSH_3T3_GLI3_Agonist_viability	tested, but inactive	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_SSH_3T3_GLI3_Antagonist_viability	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_TR_LUC_GH3_ANTAGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, active result	tested, active result	tested, active result
TOX21_VDR_BLA_AGONIST_VIABILITY	tested, active result	tested, but inactive	tested, active result	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive
TOX21_VDR_BLA_antagonist_viability	tested, active result	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive	tested, but inactive
TOTAL NUMBER OF TESTED ASSAYS	47	47	47	47	47	47	47
TOTAL NUMBER OF ACTIVE ASSAYS	20	5	22	30	13	6	12
PERCENT ACTIVE	43%	11%	47%	0%	0%	13%	26%