From:	Wheeler
To:	P65Public Comments
Subject:	Glyphosate Labeling Comment
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Glyphosate has been linked to a variety of health disparities. It is the responsibility of our regulatory agencies to step up and protect the people. The science speaks for itself and at a minimum, warrants additional safety studies that investigate the long-term exposure humans are being subject to.

The following are just a few conclusions from scientific research.

Birth defects associated with use of glyphosate and RoundUp. Nearly two-thirds of frogs exposed to 1 ppm of RoundUp had birth defect[1].

Both RoundUp and glyphosate are seen to cause endocrine disruptions at levels as low as 0.5 ppm[2].

While safety levels are based only on the active component of a synthetic pesticide, insecticide, or fungicide, research shows much higher risks in full formulations – **up to 1000 times more toxic to human cells than the active component alone.** RoundUp ***was 125 times more toxic than glyphosate***[2]**.**

Formulations using glyphosate promote cell death and necrosis at residue levels seen in food and in water[3]**.**

Additionally, glyphosate has been shown to disrupt gut bacteria, impair steroid hormone production, chelate minerals, and deplete amino acids[4].

References:

1. Malatesta M. et al. Ultrastructural Morphometrical and Immunocytochemical Analysis of Hepatocyte Nuclei from Mice Fed on Genetically Modified Soybean. *Cell Structure and Function*. 27: 173-180 (2002).
2. Robin Mesnage, Nicolas Defarge, Joël Spiroux de Vendômois, and Gilles-Eric Séralini, "Major Pesticides Are More Toxic to Human Cells Than Their Declared Active Principles," BioMed Research International, vol. 2014, Article ID 179691, 8 pages, 2014. doi:10.1155/2014/179691
3. Benachour N., Seralini GE. Glyphosate Formulations Induce Apoptosis and Necrosis in Human Umbilical, Embryonic, and Placental Cells. *Chem. Res. Toxicol.*, **2009**, *22* (1), pp 97–105 **DOI:** 10.1021/tx800218n
4. Samsel A., and Seneff S. Glyphosate, pathways to modern diseases II: Celiac sprue and gluten intolerance. Interdiscip Toxicol. 2013; Vol.6(4): 159-184. Doi: 10.2478/intox-2013-0026.

Christi Wheeler MS, RD, CSP

[redacted]

Email: christi@superiorsustenance.com
Website: www.SuperiorSustenance.com
Facebook: www.Facebook.com/SuperiorSustenance

Twitter: @christi_RD

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