



**HOW DOES THE MOST COMMON HERBICIDE, *GLYPHOSATE*, HARM US?**

We have 10X as many gut bacteria as body cells. These bacteria perform essential nutritional and immune functions for us. Unlike human cells, all these bacteria have a metabolic pathway (the shikimate pathway) which is specifically inhibited by glyphosate. Beneficial bacteria are destroyed, so we lose the benefits they provide. Pathogenic organisms overgrow, creating disease and toxicity. This map introduces some of the research and offers links to articles and documented presentations on this important subject.

**SAMSEL-SENEFF**  
 ★ [CELIAC SPRUE, GLUTEN INTOLERANCE](#)  
[EFFECT ON MANGANESE, DISEASES](#)  
[EFFECT ON CP450, DISEASES](#)

★ [RESPONSIBLE TECH DATABASE](#)

★ [GREENMED DATABASE](#)

**INSTITUTE SIS:**  
 ★ [WHY GLYPHOSATE SHOULD BE BANNED](#)

[DR. SENEFF WEBSITE](#)

[DR. SENEFF INTERVIEW](#)

★ [Beyond Pesticides](#)

Overview

Glyphosate is applied prior to harvest to speed plant desiccation and kill weeds ahead of the next growing season. It is applied too late to be washed off of crops. Affected are: wheat, barley, legumes, corn, sunflower, kiwi, grapes (wine), raspberries, apples, soybeans, alfalfa, and sugar cane.



★ [Sci. American, "Deadly"](#)

★ [Glyphosate, toxic wheat](#)

Articles

Home: [Oscillatorium.com](#)  
 Newest version [this map](#)  
 Date of this update: 01-24-16

SEE OTHER MAPS:  
 ★ [GM FOODS](#)  
[SULFUR/SULPHUR](#)  
[METHYLATION, GLUTATHIONE](#)

**EFFECTS:**

- Endocrine disruptor
- Causes DNA damage and drives mutations
- Suppression of aromatic amino acid biosynthesis
- Reduced aromatic amino acids (tyrosine, more)
- Suppression of cytochrome P450
- Preferentially kills lactobacillus, bifidobacteria
- Disruption sulfate synthesis, transport
- Reduction of antioxidant capacity
- Chelation of minerals: Fe, Co, Mn, more
- Reduced Mn increases mitochondrial damage
- Reduced Mn worsens postmenopausal osteoporosis
- Toxic phenols produced by gut pathogens
- "Cages" AI to facilitate entry
- Facilitates Ca uptake via voltage gate channels
- Increased glutamate, ammonia
- Decreased serotonin, glutathione, folate

[DR. MASON: GLYPHOSATE IS DESTRUCTOR OF HUMAN HEALTH AND BIODIVERSITY](#)

**GLYPHOSATE**

Studies

- [Neurotoxicity](#)
- [Liver cell death](#)
- [Kidney disease](#)
- ★ [Endocrine dysruption](#)
- [Altered mRNA, tadpoles](#)
- [Enzyme destruction, fish](#)
- [Breast cancer cell growth](#)
- [Increases aflatoxin growth](#)
- [Disruption of reproductive function](#)
- [Hematologic, hepatologic changes](#)
- [Celiac sprue and gluten intolerance](#)
- [Related to non-Hodgkins lymphoma](#)
- [Pseudomonas planktonic, biofilm formation](#)

[Affect on gut microbiome leads to modern diseases](#)

Other Links

- [Kidney disease](#)
- [Animal deformities](#)
- [Human anencephaly](#)
- [Dr. Martin Pall, EMF, glyphosate](#)
- [Dr. Mae-Wan Ho, human health disaster](#)
- [Scientific American: Deadly to Human Cells](#)

Effects may be multiplied many times by product adjuvants.

"The same chemicals we use to sterilize the environment sterilize us." Dr. Roy Dittman

Most studies have not been long enough to detect cumulative effects.

Some organisms which may increase as other organisms destroyed:

- C. difficile*
- Desulfovibrio*
- Aspergillus flavi*

