

## **Roundup Herbicide Causes Smorgasbord of Fatal Diseases, New Study Concludes**

*By: Ethan A. Huff, Natural News*

The immense dangers associated with exposure to Monsanto's Roundup herbicide are becoming incontrovertible, with the latest indictment of this deadly chemical cocktail coming from a new paper published in the open access, peer-reviewed journal *Entropy*. A scientist from the *Massachusetts Institute of Technology* (MIT) and her colleague found that, contrary to industry claims, the active ingredient in Roundup, glyphosate, interferes with human digestion and the biosynthesis of nutrients, which can cause a host of fatal diseases.

Most of the chronic illnesses that plague Western society, in fact, are the same residual consequences that can arise due to exposure to Roundup. This stunning fact raises some serious questions about the safety of the general food supply, much of which is derived from or contains ingredients made from genetically-modified (GM) crops that are sprayed with Roundup. In other words, when the vast majority of today's most prevalent diseases can be traced to the same long-term side effects brought about by exposure to Roundup, we have a very real public health crisis on our hands.

To arrive at this conclusion, independent scientist and consultant Anthony Samsel and MIT researcher Stephanie Seneff evaluated a plethora of scientific research on glyphosate, including data showing that the toxin disrupts microbial balance in the gut; impairs the transport of sulphate; and suppresses the normal activity of various members of the cytochrome P450 (CYP) family of enzymes, which are used by the body to break down toxins and produce blood. And in the process of their quest, these two inquiring minds determined that the negative effects of glyphosate on mammals, which includes humans, have been greatly underestimated.

"Glyphosate's inhibition of cytochrome P450 (CYP) enzymes is an overlooked component of its toxicity to mammals," write the authors in their abstract. "Residues are found in the main foods of the Western diet, comprised primarily of sugar, corn, soy and wheat ... Consequences are most of the diseases and conditions associated with a Western diet, which include gastrointestinal disorders, obesity, diabetes, heart disease, depression, autism, infertility, cancer and Alzheimer's disease."

### **Roundup exposure linked to brain disorders, reproductive problems, and cancer**

The discovery that glyphosate directly inhibits CYP enzyme activity is noteworthy, as this class of enzymes is responsible for regulating proper metabolism. When CYP enzymes are blocked from

functioning as intended, in other words, a condition known as gut dysbiosis can result, which in turn can lead to inflammatory bowel disease and other chronic gastrointestinal disorders. Such disorders, as you may already know, are often linked to autism spectrum disorders and various other brain conditions.

Beyond this, glyphosate has also been shown to directly interfere with reproductive function. A known chelator, the spraying of Roundup on crops has been shown to not only deplete nutrients from crops, but also block their absorption from soil. When ingested, glyphosate and glyphosate residues can cause similar damage in humans, as it both depletes and decreases the bioavailability of important reproductive nutrients like cholesterol sulfate and zinc. Glyphosate has also been shown to cross the placental barrier and damage developing human life in mothers' wombs.

"Contrary to the current widely-held misconception that glyphosate is relatively harmless to humans, the available evidence shows that glyphosate may rather be the most important factor in the development of multiple chronic diseases and conditions that have become prevalent in Westernized societies," explain the authors in their discussion.

"While glyphosate is obviously not the only environmental toxin to contribute to these diseases and conditions, glyphosate's ability to disrupt the gut bacteria, to impair serum transport of sulfate and phosphate, and to interfere with CYP enzymes, logically progresses to this multitude of diseased states, through well-established biological processes."

You can read the study's abstract here:

<http://www.mdpi.com/1099-4300/15/4/1416>

You can read the complete study here:

<http://www.mdpi.com/1099-4300/15/4/1416/pdf>

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