

GMOs and multiple chronic diseases

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A paper published 18 April 2013 in the scientific journal [Entropy](#) explains the connection between glyphosate and gastrointestinal disorders, obesity, diabetes, heart disease, depression, autism, infertility, cancer and Alzheimer's disease.

According to the authors, “glyphosate enhances the damaging effects of other food borne chemical residues and environmental toxins. Negative impact on the body is insidious and manifests slowly over time as inflammation damages cellular systems throughout the body. Here, we show how interference with CYP enzymes acts synergistically with disruption of the biosynthesis of aromatic amino acids by gut bacteria, as well as impairment in serum sulfate transport. 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. We explain the documented effects of glyphosate and its ability to induce disease, and we show that glyphosate is the 'textbook example' of exogenous semiotic entropy: the disruption of homeostasis by environmental toxins.”

Genetically Modified Organisms (GMOs) were first introduced into the food supply in the 1995. One of the primary genetically engineered (GE) traits is resistance to direct herbicide applications. As a result, there has been a huge increase in the amount of [glyphosate](#) applied to cotton, corn, canola, sugar beet, and soy crops grown in the U.S. corresponding to the [rise in the percentage](#) of these GE varieties planted.

Since GMOs were introduced into the food supply the rate of [chronic health conditions among children](#) in the United States increased from 12.8% in 1994 to 26.6% in 2006, particularly for asthma, obesity, and behavior and learning problems. The rate of chronic disease in the entire U.S. population has been dramatically increasing with an estimated 25% of the U.S. population suffering from [multiple chronic diseases](#).

According to a recent article in the [Seattle Times](#), “Drug overdose deaths rose for the 11th straight year [in 2010 according to a CDC report] ... Medicines, mostly prescription drugs, were involved in nearly 60 percent of overdose deaths that year, overshadowing deaths from illicit narcotics. ... Among the medication-related deaths, 17 percent were suicides. The report's data came from death certificates, which aren't always clear on whether a death was a suicide or a tragic attempt at getting high.”

It seems that people are so miserable, they are knocking themselves off with their painkillers.

The [Academy of Environmental Medicine](#) has issued a position statement on GMO food stating, “...several animal studies indicate serious health risks associated with GM food consumption including infertility, immune dysregulation, accelerated aging, dysregulation of genes associated with cholesterol synthesis, insulin regulation, cell signaling, and protein formation, and changes in the liver, kidney, spleen and gastrointestinal system.

“There is more than a casual association between GM foods and adverse health effects. There is causation as defined by Hill's Criteria in the areas of strength of association, consistency, specificity, biological gradient, and biological plausibility. The strength of association and consistency between GM foods and disease is confirmed in several animal studies.” They further state that “because GM foods have not been properly tested for human consumption, and because there is ample evidence of

probable harm,” they call on physicians to educate the public and warn their patients to avoid GM foods.

People are ill and they are not waiting for scientists to tell them that GMOs are making them ill. Rachel Linden said in an interview on [Weekly Women's GMO Free News](#), “I don't know why science has replaced common sense. I don't need to check with my doctor to know how I feel when I eat GMOs and how I feel when I don't eat GMOs. I don't need a scientist to tell me forty years from now that they were wrong about GMOs. I'm going to decide for myself right now.” [Case studies](#) are piling up of patients who have shown dramatic improvement after taking their doctor's advice and eliminating GMO food. Wouldn't that be so much easier if they had labels?