

# Glyphosate Dangers

**This document contains links to Monsanto and glyphosate safety literature. Of course we cannot believe everything posted on the web, but you will get 765,000 hits when you search for websites that contain the words “glyphosate” and “cancer.”**



Non-native invasive plant spread in the national forests is one of the largest threats to the proper functioning forest ecosystem. I commend you for recognizing this and spending taxpayer's money to deal with it. There are many methods to address this threat. They include different types of herbicides, hand pulling and biological control.

Please allow me to point out something you and your staff should already know. You propose to apply a potentially lethal chemical to your national forest. I suggest you read the information authored by independent scientists below. Then ask your USFS invasive plant eradication expert who assisted you with this project why they suggested an herbicide containing the chemical glyphosate be applied to public land.

In the next 50 pages I will present irrefutable research-based evidence that casual exposure to the chemical glyphosate is one of the causes of birth defects, miscarriages, premature births, cancer - non-Hodgkin's lymphoma and hairy cell leukemia, DNA damage, autism, irreparable kidney and liver damage, infertility, learning disabilities, ADHD and other neurological disorders (especially in children), mitochondrial damage, cell asphyxia, endocrine disruption, bipolar disorder, skin tumors, thyroid damage, decrease in the sperm count and chromosomal damage. Regardless of what your agency says, no human being would take action that independent research scientists (not affiliated with the USFS) show sometimes causes these horrific physical conditions.

Here's a very recent (January 27, 2017) article published in *Your Newswire*.  
Link to entire article: <http://yournewswire.com/france-bans-sale-of-monsanto-herbicide-roundup/>

## France Bans Sale Of Monsanto Herbicide Roundup

Excerpt:

*“The week-killer will no longer be available in garden centres in France, following French Ecology Minister Segolene Royal’s announcement on national television, “I have asked garden centres to stop putting Monsanto’s Roundup on sale” “*

Here’s another recent (January 24, 2017) article published in *Truthout*.

Link to entire article: <http://www.truth-out.org/news/item/39197-monsanto-epa-keep-talks-secret-on-glyphosate-cancer-review>

## **MONSANTO, EPA SEEK TO KEEP TALKS SECRET ON GLYPHOSATE CANCER REVIEW**

Excerpts:

*“Monsanto Co. and officials within the Environmental Protection Agency are fighting legal efforts aimed at exploring Monsanto’s influence over regulatory assessments of the key chemical in the company’s Roundup herbicide, new federal court filings show.*

*The revelations are contained in a series of filings made within the last few days in the U.S. District Court for the Northern District of California as part of litigation brought by more than 50 people suing Monsanto. The plaintiffs claim they or their loved ones developed non-Hodgkin lymphoma (NHL) after exposure to Roundup herbicide, and that Monsanto has spent decades covering up cancer risks linked to the chemical.”*

*“The EPA has spent the last few years assessing the health and environmental safety aspects of glyphosate as [global controversy](#) over the chemical has mounted. The World Health Organization’s International Agency for Research on Cancer (IARC) declared in March 2015 that glyphosate is a [probable human carcinogen](#), with a positive association found between glyphosate and NHL. Monsanto has been fighting to refute that classification.”*

Please do not ignore or reject the information below thinking it’s your duty as a loyal USFS employee to do so. Remember, you are a human being. As you will see I have done extensive research on the chemical glyphosate. Why? My granddaughter died of cancer in 2013. It was tragic to watch her die. Cancer caused by glyphosate exposure is preventable. You can accomplish your land management goals using alternatives to herbicides that contain glyphosate: mechanical methods, biological methods and other herbicides.

Please explore the Monsanto website(s) available at the link below that deny any relationship between glyphosate and cancer. Roundup generates \$15.9 billion dollars

for Monsanto from worldwide sales each year. Might this explain their denial? Please see:

<https://www.bloomberg.com/news/articles/2015-03-20/who-classifies-monsanto-s-glyphosate-as-probably-carcinogenic->

## Here are the results of my research:

### Why Glyphosate Should Be Banned – A Review of its Hazards to Health and the Environment

Published by, Permaculture Research Institute, November 1, 2012

Note: the USDA has known this for 4 years and still looks the other way to please Monsanto.

Excerpts:

*“The use of glyphosate-based herbicides, especially Monsanto’s Roundup formulation, has increased dramatically since the introduction of genetically modified (GM) glyphosate-tolerant crops, resulting in the contamination of our food, environment and water supplies.*

*Glyphosate-based herbicides are now the most commonly used herbicides in the world. It is still promoted as ‘safe’, despite damning evidence of serious harm to health and the environment.”*

*“Evidence of harm to health*

- Monsanto and the European Commission (EC) have known about birth defects since the 1980s. Industry studies found statistically significant skeletal and/or visceral abnormalities as well as reduced viability and increase in spontaneous abortions in rats and rabbits exposed to high doses of glyphosate. Lower doses were later shown to cause dilated hearts. The EC dismissed all the findings.*
- Independent studies have since found caudal vertebrae loss in rats treated with sub-lethal doses of the herbicide; as well as craniofacial abnormalities, increased embryonic mortality and endocrine disruption, abnormal onset of puberty, and abnormal sexual behaviour and sperm count in male offspring of mothers exposed during gestation.*
- GM soybean-fed female rats gave birth to excessive numbers of severely stunted pups, with over half of the litter dead by three weeks, and the surviving pups were sterile.*
- Non-mammalian animals exposed to glyphosate resulted in increased gonad size, increased mortality, craniofacial abnormalities correlating with abnormal retinoic acid signalling, and reduced egg viability.*
- In vitro exposure to glyphosate resulted in endocrine disruption and death of cells of the testis, placenta, and umbilical cord.*
- A long term in vivo study on rats found females exposed to Roundup and/or Roundup Ready GM maize were two to three times as likely to die as controls and much more*

*likely to develop large mammary tumours, while males presented large tumours four times controls and up to 600 days earlier.*

- *Clinical data from Argentina are consistent with lab findings of increases in birth defects and cancers in regions with large areas cultivating glyphosate-tolerant soybean.*
- *Endocrine disruption has been observed in both in vivo and in vitro studies in the laboratory, including abnormal levels of testosterone, aromatase enzyme, testosterone and oestrogen receptors, leutinising hormone, follicle-stimulating hormone. Endocrine disruption can lead to cancers and reproductive problems.*
- *Epidemiological studies have found links to cancer including non-Hodgkin lymphoma and increased plasma cell proliferation. Cancer rates have risen in in glyphosate-use zones in Argentina. Lab studies found significant increases in interstitial cell tumour incidence in rats as well as skin tumour-promoting activity. Numerous lab studies including those performed by industry showed glyphosate damages DNA of cells in culture as well as in humans living in glyphosate-sprayed regions of Argentina. Non-mammalian studies found defects in cell cycle checkpoints and DNA damage repair machinery. DNA damage is a major prelude to cancers. AMPA, the glyphosate metabolite, also has genotoxic effects.*
- *Neurotoxicity effects include Parkinsonism have emerged following acute exposure. Exposure to glyphosate resulted in oxidative stress in lab animals and death of neuronal cells, correlating with Parkinsonian pathology. Acute exposure in fish resulted in acetylcholine esterase (AChE) inhibition. An epidemiological study linked glyphosate - exposure to Attention-Deficit-Hyperactive disorder in children, a disorder associated with AChE inhibition. The original neurotoxicity studies carried out by industry were ruled invalid by the US Environment Protection Agency and urgently need re-examining by independent scientists.*
- *Internal organ toxicity has been documented in animal feeding studies with glyphosate-tolerant soybean. Rats suffered kidney abnormalities including renal leakage and ionic disturbances, and liver pathology including irregular hepatocyte nuclei, and increased metabolic rates.*
- *Acute toxicity of glyphosate is officially declared low by government agencies; however agricultural workers have reported many symptoms including skin irritation, skin lesions, eye irritation, allergies, respiratory problems and vomiting. Ingestion of large volumes causes systemic toxicity and death.”*

Link to full report: <http://permaculturenews.org/2012/11/01/why-glyphosate-should-be-banned-a-review-of-its-hazards-to-health-and-the-environment/>

## **Monsanto's Roundup linked to fatty liver disease**

Published by: *Nation of Change*, January 11, 2017

Excerpts:

*Glyphosate – the controversial active ingredient in Monsanto's top-selling weedkiller Roundup and other herbicides – can cause non-alcoholic fatty liver disease in rats at very low, real-world doses, according to a peer-reviewed study published in Nature.”*

*“The groundbreaking research is the first to show a “causative link between an environmentally relevant level of Roundup consumption over the long-term and a serious disease,” stated lead author Dr. Michael Antoniou of King’s College London, who described the findings as “very worrying.” “*

Link: <http://www.nationofchange.org/2017/01/11/monsantos-roundup-linked-fatty-liver-disease/>

Monsanto spends an incredible amount of money each year to suppress real science and manipulate the media. This corporation even invents its own science that the USFS chooses to embrace as I will show later.

### **Monsanto undermines EPA's scientific review**

Published by: Pesticide Action Network, December 8, 2016

Excerpts:

*“After halting the process in October, the Environmental Protection Agency (EPA) recently put its review of glyphosate back on the calendar for December 13-16. Scientists will gather on behalf of the agency to review the carcinogenic properties of the key ingredient in Monsanto’s flagship herbicide RoundUp.”*

*“EPA originally postponed the meeting after Monsanto publicly attempted to discredit participating scientists chosen by the agency. While the Scientific Advisory Panel (SAP) will convene next week, it’s notably missing Peter Infante — an expert epidemiologist Monsanto publicly accused of bias.”*

#### **“Caving to industry pressure**

*A few days before the SAP meeting was supposed to start in October, Monsanto sent a letter to EPA claiming that Infante was “biased” because he had historically defended plaintiffs in chemical exposure cases against Monsanto and affiliated agrichemical corporations — and challenged the legitimacy of industry-funded studies.*

*Given that Infante is no longer participating in the review process, it seems Monsanto’s tactics to undercut independent, non-industry science were effective.”*

Link: [http://www.panna.org/blog/monsanto-pushing-silence-science?utm\\_source=blog&utm\\_campaign=qt-12-09&utm\\_medium=groundtruth](http://www.panna.org/blog/monsanto-pushing-silence-science?utm_source=blog&utm_campaign=qt-12-09&utm_medium=groundtruth)

Ask yourself why the poison called glyphosate is banned for use in 3<sup>rd</sup> world countries and still allowed in the United States if Monsanto does not control the regulatory agencies in this country. Now ask yourself why Congress included Section 735 in the 2013 spending bill (HR 933) that was signed by President Obama. Section 735 is known by many as the "Monsanto Protection Act." See: <http://www.ibtimes.com/monsanto-protection-act-5-terrifying-things-know-about-hr-933-provision-1156079>

As I will show, the USDA has been snuggling with Dow, Syngenta, Monsanto, Bayer, and DuPont for decades. It's not surprising the USFS receives untrue information from the USDA about the chemicals these corporations manufacture. Please see **Section #1** below.

My father and mother both died of cancer. Their pain was unimaginable. This is why I have taken time to investigate the chemical glyphosate ... that's sold over the counter as Roundup to misinformed consumers.

## **My comments are structured using the following sections:**

**Section 1)** Monsanto exerts unacceptable influence over the USDA

**Section 2)** The USFS depends on a single (emphasis added) research conclusion that glyphosate is safe by a lab with clear ties to Monsanto (Syracuse Environmental Research Associates--SERA) knowing the research conducted by thousands of independent scientists reveals glyphosate exposure is lethal.

**Section 3)** Glyphosate is especially toxic to children

**Section 4)** Herbicides that contain glyphosate are prohibited in 26 countries and the state of California classifies glyphosate as a ""

**Section 5)** California classifies glyphosate as a"



## **Section 1**

### **The USDA has been in bed with Monsanto for decades**

It's well known that in the United States today corporate executives and lobbyists sometimes control the behavior of 1) some government agency employees and 2) the information made available to these employees.

Clearly, Monsanto controls the USDA's herbicide science and conclusions. Here are papers& articles that should be read by all Americans:

**Six Reasons Why Obama Appointing Monsanto's Buddy, Former Iowa Governor Vilsack, for USDA Head Would be a Terrible Idea**

Published by Organic Consumers Association, November 12, 2008

Excerpt:

*"Vilsack has a glowing reputation as being a schill for agribusiness biotech giants like Monsanto. Sustainable ag advocated across the country were spreading the word of Vilsack's history as he was attempting to appeal to voters in his presidential bid."*

Link: <https://www.organicconsumers.org/news/six-reasons-why-obama-appointing-monsantos-buddy-former-iowa-governor-vilsack-usda-head-would>

### **Monsanto Receives Full Deregulation From Vilsack's USDA For Roundup Ready Alfalfa**

Published by Alabama Confidential, January 31, 2011

Excerpt:

*"Monsanto shill supreme, USDA Head Tom Vilsack pushed hard for his favorite corporate demon, the dreaded Monsanto, to further gain total control of US agriculture with this latest power bestowal by granting full deregulation for Monsanto's genetically modified Alfalfa:"*

***"Vanity Fair covered this issue in an investigative piece from May 2008 aptly entitled "Monsanto's Harvest of Fear" that is a compelling read and an in-depth probe into the frightening power that Monsanto has and wants.***

*And thanks to this latest ruling from the USDA, in conjunction with the false Food and Safety Bill that passed in the lame duck session of Congress, they are well on their way to getting it."*

Link: <http://alabamacorruption.blogspot.com/2011/01/monsanto-recieves-full-deregulation.html>

### **Tom "Monsanto" Vilsack Must Go.**

Published by Daily Kos, April 25, 2011

Excerpt:

*"He should go to Monsanto, that is, where we know he'll end up in a cushy job making bushels of money following his adventure as Secretary of Agriculture. Why waste our time? Why not just do it now Tom? You're already working for them:"*

*"Who needs the federal agency responsible for ensuring food safety for Americans? In our brave new world we rely on the "invisible hand" of the market place to regulate itself! So it's only natural that Vilsack would approve a program allowing companies like Monsanto to review itself. I'm sure Monsanto will do the environmental assessments and find that "Oh My Gosh!", GMO's are perfectly safe!"*



Link: <http://www.dailykos.com/story/2011/04/25/969976/-Tom-Monsanto-Vilsack-Must-Go>

### **Ag Secretary Tom Vilsack: Too much Monsanto in the Mix?**

Published by OpEdNews, December 17, 2008

Excerpt:

*"Iowans also remember the rides on Monsanto's corporate jet that Vilsack - the Biotech "Governor of the Year" - enjoyed during his time in office. He repayed Monsanto by working with the Republican floor manager in the House, promising to do everything he could to get a seed bill to pass. This bill took away county power to regulate GMOs within county borders."*

Link: <http://www.opednews.com/articles/Ag-Secretary-Announced-To-by-Jill-Hamilton-and-081216-596.html>

### **How did Barack Obama become Monsanto's man in Washington?**

Published by Infowars, April 29, 2013

Excerpts:

*"After his victory in the 2008 election, Obama filled key posts with Monsanto people, in federal agencies that wield tremendous force in food issues, the USDA and the FDA."*

*"At the USDA, as the director of the National Institute of Food and Agriculture, Roger Beachy, former director of the Monsanto Danforth Center."*

*"As commissioner of the USDA, Iowa governor, Tom Vilsack. Vilsack had set up a national group, the Governors' Biotechnology Partnership, and had been given a Governor of the Year Award by the Biotechnology Industry Organization, whose members include Monsanto."*

*"As the new counsel for the USDA, Ramona Romero, who had been corporate counsel for another biotech giant, DuPont."*

*"Obama's signing of the Monsanto Protection Act, making that corporation senior in power to the US court system, wasn't an accident. It was taken in keen awareness of his duty to his Globalist betters."*

Link: <http://www.infowars.com/how-did-barack-obama-become-monsantos-man-in-washington/>

### **Monsanto Has Tom Vilsack Under Its Thumb**

Broadcast by Ring of Fire Radio, LLC, March 25, 2013



Excerpt:

*"The Agricultural Department sent a budget to the White House last week, with orders from the meat industry and agricultural giant [Monsanto](#) on how Secretary Tom Vilsack should do his job. Monsanto, a company known for its controversial and potentially dangerous genetically engineered crop seeds, has been under fire for years for putting profit over consumer need and safety."*

Link: <https://trofire.com/2013/03/25/monsanto-has-tom-vilsack-under-its-thumb/>

## **USDA Forces Whole Foods to Accept Monsanto**

Published by *Reader Supported News*, February 3, 2016

Excerpts:

*"In a cleverly worded, but profoundly misleading email sent to its customers last week, Whole Foods Market, while proclaiming their support for organics and "seed purity," gave the green light to USDA bureaucrats to approve the "conditional deregulation" of Monsanto's genetically engineered, herbicide-resistant alfalfa.*

*Beyond the regulatory euphemism of "conditional deregulation," this means that WFM and their colleagues are willing to go along with the massive planting of a chemical and energy-intensive GE perennial crop, alfalfa; guaranteed to spread its mutant genes and seeds across the nation; guaranteed to contaminate the alfalfa fed to organic animals; guaranteed to lead to massive poisoning of farm workers and destruction of the essential soil food web by the toxic herbicide, Roundup; and guaranteed to produce Roundup-resistant superweeds that will require even more deadly herbicides such as 2,4 D to be sprayed on millions of acres of alfalfa across the U.S."*

Link: <http://readersupportednews.org/opinion2/265-34/34968-usda-forces-whole-foods-to-accept-monsanto>

## **GMO Science Deniers: Monsanto and the USDA**

The Huffington Post, May 20, 2015

Excerpt:

*"Perhaps no group of science deniers has been more ridiculed than those who deny the science of evolution. What you may not know is that Monsanto and our United States Department of Agriculture (USDA) are among them. That's right: for decades, Monsanto and its enablers inside the USDA have denied the central tenets of evolutionary biology, namely natural selection and adaptation. And this denial of basic science by the company and our government threatens the future viability of American agriculture."*

*"Now Monsanto and Dow Chemical have received government approval to market new genetically engineered corn, soy and cotton, that are "stacked" with engineered DNA*

*that make them resistant to Roundup as well as 2,4-D (one of the chief elements of "Agent Orange"). Monsanto has also gained approval from the USDA for the same three crops that can tolerate Dicamba. 2,4-D and Dicamba are older, more toxic herbicides than Roundup, and these companies are reverting to them because they have brought us to the point of peak herbicides. They simply don't have any new ones, similar to the current crisis in antibiotics."*

Link: [http://www.huffingtonpost.com/andrew-kimbrell/gmo-science-deniers-monsanto-and-the-usda\\_b\\_6904606.html](http://www.huffingtonpost.com/andrew-kimbrell/gmo-science-deniers-monsanto-and-the-usda_b_6904606.html)

There is not enough room to print quote excerpts from them all. Here are the links to the rest for those who are interested in reading about Monsanto controlling the USDA ... and of course the USFS.

#### **Is the USDA a wholly owned subsidiary of Monsanto?**

Link: <http://www.cornucopia.org/is-the-usda-a-wholly-owned-subsiadiary-of-monsanto/>

#### **Obama's Highly Corrupt USDA: END Monsanto.**

Link: <http://www.thomhartmann.com/users/telliottmbamsc/blog/2013/10/obamas-highly-corrupt-usda-end-monsanto>

#### **A Government of Monsanto, by Monsanto, and for Monsanto**

Link: <http://farmwars.info/?p=5860>

#### **USDA to Give Monsanto's New GMO Crops Special 'Speed Approval'**

Link: <http://naturalsociety.com/usda-to-give-monsantos-new-gmo-crops-special-speedy-approval/>

#### **Monsanto's GMO Policy Infecting All Levels of Government**

Link: <http://www.nationofchange.org/monsanto-s-gmo-policy-infecting-all-levels-government-1373204831>

#### **Another Monsanto man in a key USDA post? Obama's ag policy's giving me whiplash**

Link: <http://grist.org/article/2009-09-24-usda-obama-monsanto-organic/>

#### **GMO Science Deniers: Monsanto and the USDA**

Link: <http://www.wanttoknow.info/a-gmo-science-deniers-monsanto-the-usda>

#### **USDA Forces 'Whole Foods' To Accept Monsanto**

Link: <http://humansarefree.com/2012/02/usda-forces-whole-foods-to-accept.html>

#### **In Defiance of Sanity, USDA Approves Dow's Agent Orange GMO**

Link: <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/25907>

#### **Is the USDA Covering Up Potential Dangers That Affect Your Health?**

Link: <http://www.liveinthenow.com/article/is-the-usda-covering-up-dangers-that-affect-your-health>

### **USDA and Monsanto “Biotech” Industry Collusion**

Link: <http://www.truthwiki.org/usda-and-monsanto-biotech-industry-collusion/>

### **Corruption at the USDA**

Link: <https://newhomeeconomics.wordpress.com/2010/03/09/corruption-at-the-usda/>

### **USDA Admits Exterminating Birds, Crops, and Bees**

Link: <http://worldtruth.tv/usda-admits-exterminating-birds-crops-and-bees/>

### **USDA: Stop Killing Bees and Butterflies (CCD) While Saving Monsanto (Round-Up)**

Link: <https://www.change.org/p/usda-stop-killing-bees-and-butterflies-ccd-while-saving-monsanto-round-up>

### **U.S.D.A. infiltrated by Monsanto.**

Link: <https://legacy.minds.com/blog/view/460310689387388940/usda-infiltrated-by-monsanto>

### **STOP the Corrupt FDA and USDA Madness Once and For All!**

Link: <https://www.change.org/p/athena-telos-stop-the-corrupt-fda-and-usda-madness-once-and-for-all>

### **Are you aware that the USDA is attempting to corrupt organic standards?**

Link: [http://www.carbonproduct.net/Health\\_and\\_Fitness/Are\\_you\\_aware\\_that\\_the\\_USDA\\_is\\_attempting\\_to\\_corrupt\\_oranic\\_standards/\\_17096](http://www.carbonproduct.net/Health_and_Fitness/Are_you_aware_that_the_USDA_is_attempting_to_corrupt_oranic_standards/_17096)

### **NEW SCANDAL FOR USDA & MONSANTO: Whistle Blowers at USDA say MONSANTO Influences Agency Suppression of Critical Science.**

Link: <http://mauicauses.org/new-scandal-for-usda-monsanto-whistle-blowers-at-usda-say-monsanto-influences-agency-suppression-of-critical-science/>

### **USDA moves to let Monsanto perform its own environmental impact studies on GMOs**

Link: [http://axisoflogic.com/artman/publish/Article\\_62860.shtml](http://axisoflogic.com/artman/publish/Article_62860.shtml)

### **Monsanto’s GMO Crops Ravage US, USDA Ignores Dangers**

Link: <http://www.alipac.us/f19/monsanto%92s-gmo-crops-ravage-us-usda-ignores-dangers-247146-print/>

### **THE BITTER TRUTH ABOUT THE USDA AND MONSANTO SUGAR BEETS**

Link: <http://geneticallyengineeredfoodnews.com/monsanto-sugar-beets>

### **USDA Approves Toxic Herbicide Amidst Great Public Outcry**

Link: <http://healthimpactnews.com/2014/usda-approves-toxic-herbicide-amidst-great-public-outcry/>

### **USDA Gives Green Light to 2,4-D Resistant GM Crops**

Link: <http://sustainablepulse.com/2014/01/03/usda-gives-green-light-pesticide-promoting-gm-crops/#.VIIUtJbTm1s>

**USDA approves the second generation of GMOs resistant to more toxic herbicide**

Link: <http://www.seattleorganicrestaurants.com/vegan-whole-food/usda-approves-second-generation-of-GMOs-resistant-to-toxic-herbicide-isoxaflutole-IFT.php>

**USDA refuses to test foods for glyphosate contamination, says pesticides are safe to eat.**

Link: [http://www.naturalnews.com/048237\\_glyphosate\\_contamination\\_USDA.html](http://www.naturalnews.com/048237_glyphosate_contamination_USDA.html)

**USDA Secretary Vilsack's proposal for product labeling: companies will voluntarily, use barcodes to tell consumers if their products contain GMOs. This would require you to scan the product, then be directed to the company's website where you'd have to wade through the advertising and search the fine print.**

Link: <https://www.organicconsumers.org/essays/%E2%80%98%E2%80%99-barcodes-latest-plot-keep-you-dark-about-gmos>

**Herbicide Use To Increase Dramatically**

Link: <http://www.enn.com/agriculture/article/47711>

**USDA Approval of Second-Generation of GMOs**

Link: <http://undergroundhealthreporter.com/usda-approval-of-second-generation-of-gmos/#axzz3sFaNPdRd>

You are probably wondering what to do. Should you do the ethical, caring thing by not applying glyphosate or are you worried about your job? There are alternatives to glyphosate: hand pulling, biological eradication methods and other herbicides. Please use them. What kind of person takes a chance on killing someone because their employer says its OK?



## **Section 2**

**As is the case here, USFS EAs and EISs that propose to apply glyphosate cite research conclusions from the *Human Health and Ecological Risk Assessment* prepared by Syracuse Environmental Research Associates' (SERA).**

As I will show below, an examination of the SERA Risk Assessment denies or does not address the causal relationship between glyphosate exposure and human health problems disclosed by hundreds of independent scientists worldwide. The USFS ignores this science. **Section #1** above explains why. Its not surprising the agency embraces the SERA conclusion.

Please open your mind and find out the corporation or agency that sanctioned and funded the so-called SERA research. Here's a hint: it wasn't the USFS ... although considerable effort was made to make it appear the project was driven by the agency.

The safety conclusions of most USFS EAs and EISs that analyze and approve application of herbicides that contain glyphosate are based in the SERA report below.

**Report Name:** *Glyphosate -Human Health and Ecological Risk Assessment Final Report, 2011*

**Prepared by:** Syracuse Environmental Research Associates, Inc.

**Prepared for:** USDA Forest Service, Contract Number: **AG-3187-C-06-0010**

Link to Report:

[http://www.fs.fed.us/foresthealth/pesticide/pdfs/Glyphosate\\_SERA\\_TR-052-22-03b.pdf](http://www.fs.fed.us/foresthealth/pesticide/pdfs/Glyphosate_SERA_TR-052-22-03b.pdf)

**My examples of SERA deception shown below use the following format:**

I have selected 9 tragic physical conditions caused by casual glyphosate exposure. First, I present a few links to the many examples of independent science conclusions that discuss how glyphosate causes these conditions. Then I quote the SERA report's discussion denying the "best science" conclusions.

On page xviii the SERA Report makes ridiculous, untrue claims.

### **Executive summary**

"This risk assessment on glyphosate is dominated by three considerations: the extensive literature available on glyphosate, the availability of numerous glyphosate formulations, and the use of surfactants either as components in glyphosate formulations or as adjuvants added to glyphosate formulations prior to application."

**Comment:** After reading the information below, intelligent, unbiased people would conclude "the extensive literature available on glyphosate" reveals glyphosate exposure causes tragic, catastrophic physical conditions in mammals including humans. I challenge you to find science literature besides the SERA Report that concludes glyphosate is safe that's not authored by 1) USFS employees, 2) the corporation that manufactures the chemical glyphosate, or 3) scientists with ties to Monsanto.

### **Human Health**

“The preponderance of the available data, however, clearly indicates that the mammalian toxicity of glyphosate is low, and very few specific hazards can be identified.”

After reading the information below, intelligent, unbiased people would conclude claims that “the mammalian toxicity of glyphosate is low, and very few specific hazards can be identified” is a lie intended to increase the sales of Roundup and Monsanto profits. This in itself would cause anyone to reject the rest of the SERA conclusions.

The statements quoted from the SERA Report below intended to disprove independent research conclusions linking glyphosate to tragic health effects are highlighted in **brown** font.

In most cases, the SERA report denies glyphosates connection with health problems. In a few cases, a word search of the SERA report indicates the tragic physical conditions caused by glyphosate that are disclosed by multiple independent scientists below isn't even addressed.

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## #1 Birth Defects







## **Roundup: Birth Defects Caused By World's Top-Selling Weedkiller, Scientists Say**

The *Huffington Post*, August 24, 2011

Excerpts:

*"Our examination of the evidence leads us to the conclusion that the current approval of glyphosate and Roundup is deeply flawed and unreliable," wrote the report's authors. "What is more, we have learned from experts familiar with pesticide assessments and approvals that the case of glyphosate is not unusual.*

*"They say that the approvals of numerous pesticides rest on data and risk assessments that are just as scientifically flawed, if not more so," the authors added. "This is all the more reason why the Commission must urgently review glyphosate and other pesticides according to the most rigorous and up-to-date standards."*

*Monsanto spokeswoman Janice Person said in a statement that the Earth Open Source report presents no new findings."*

*"The study, published in the journal [Chemical Research in Toxicology](#) in 2010, found that glyphosate causes malformations in frog and chicken embryos at doses far lower than those used in agricultural spraying. It also found that malformations caused in frog and chicken embryos by Roundup and its active ingredient glyphosate were similar to human birth defects found in genetically modified soy-producing regions."*

Link: [http://www.huffingtonpost.com/2011/06/24/roundup-scientists-birth-defects\\_n\\_883578.html](http://www.huffingtonpost.com/2011/06/24/roundup-scientists-birth-defects_n_883578.html)

## **Lab Study Establishes Glyphosate Link to Birth Defects**

Institute of Science in Society, April 10, 2010

Excerpt:

*"In regions where glyphosate-based herbicides are used, specific neural defects and craniofacial malformations were reported. This prompted Prof. Andrés Carrasco, director of the Laboratory of Molecular Embryology at the University of Buenos Aires Medical School into action. He and his colleagues carried out a laboratory study on the effects of glyphosate on the development of frog embryos. They found the same kinds of abnormalities in frog embryos incubated with a 5 000 fold diluted solution of the Roundup herbicide [2]. The findings were so serious that Carrasco decided to release the results before publication [3] ([Glyphosate Herbicide Could Cause Birth Defects](#) [Glyphosate Herbicide Could Cause Birth Defects](#), SiS 43), and in May 2009, the Environmental Lawyers Association of Argentina initiated a lawsuit to ban the herbicide."*

Link: <http://www.i-sis.org.uk/glyphosateCausesBirthDefects.php>

## **The inside story on Monsanto and the glyphosate birth defect data**

*The Ecologist*, June 13, 2011

Excerpts:

*"The report reveals that industry's own studies (including one commissioned by Monsanto itself) showed as long ago as the 1980s that Roundup's active ingredient glyphosate causes birth defects in laboratory animals. Industry submitted these studies to the European Commission in support of its application for glyphosate's approval for use in Europe. As the 'rapporteur' member state for glyphosate, liaising between industry and the Commission, Germany took an active role in minimising the problems with glyphosate and must shoulder a chunk of the responsibility for allowing it onto the market."*

*"Monsanto also repeats the usual industry claim that the studies that show problems with glyphosate are 'flawed'. But as our report proves, studies that show glyphosate causes birth defects include industry's own, Monsanto's among them. Is Monsanto saying its own studies are flawed? If so, we have all the more reason to worry, as these are the studies on which the current approval of glyphosate rests."*

Link: [http://www.theecologist.org/blogs\\_and\\_comments/commentators/other\\_comments/938661/the\\_inside\\_story\\_on\\_monsanto\\_and\\_the\\_glyphosate\\_birth\\_defect\\_data.html](http://www.theecologist.org/blogs_and_comments/commentators/other_comments/938661/the_inside_story_on_monsanto_and_the_glyphosate_birth_defect_data.html)

## **Monsanto's Roundup Herbicide Threatens Public Health**

*Rachel's Environment and Health News*, issue 751, Sept. 5, 2002.

Reprinted by Organic Consumers Association, September 25, 2001

Excerpt:

*"Two new studies indicate that Monsanto's herbicide, Roundup, is a hormone-disruptor and is associated with birth defects in humans. Farm families that applied pesticides to their crops in Minnesota were studied to see if their elevated exposure to pesticides caused birth defects in their children. The study found that two kinds of pesticides -- fungicides and the herbicide Roundup -- were linked to statistically significant increases in birth defects. Roundup was linked to a 3-fold increase in neurodevelopmental (attention deficit) disorders. [EHP Supplement 3, Vol. 110 (June 2002), pgs. 441-449.]*

Link: <http://www.organicconsumers.org/Monsanto/roundup92502.cfm>

I invite you to search the WEB using "glyphosate" and "birth defects." You will get several hundred thousand hits.

Why does the USFS ignore hundreds sources of science information and make life threatening decisions based on the conclusions of a single (emphasis added) SERA report? Why do you go along with their scheme to please Monsanto?

**Here is the SERA Report's denial of the fact that glyphosate exposure causes birth defects:**

The 2011 SERA glyphosate safety report at page 19 states: "*There is no indication that glyphosate causes birth defects.*"

\*\*\*\*\*

## **#2 Miscarriages**

### **Is Glyphosate Responsible for your Health Problems?**

from *Health Impact News*, December 6, 2015

Excerpts:

*"But, what about that other modern advance made in the 1970s? Has Roundup stood the test of time, or is it also another failed experiment? The short answer is that Roundup/glyphosate can easily be ranked together with DDT, because of its chemical similarity and its toxicity. [9]"*

*"A U.S. government study measured the amount of glyphosate in air and rain samples in the agricultural area of the Mississippi delta between 1995 and 2007. Results found Roundup and its toxic metabolite called AMPA in over 75% of the air and rain samples tested in 2007. (AMPA is the toxic residue that is left after glyphosate degrades into other chemical forms.) Glyphosate in the air is absorbed directly into the blood by way of the lungs. Even though the daily exposure is low, we now know that extremely low exposure, measured in parts per trillion, can disrupt the human endocrine system and stimulate cancer growth. The air and rain samples were taken in locations that were 3 miles away from the fields where Roundup was used. [16]"*

*"The endocrine disrupting properties of glyphosate can lead to reproductive problems: infertility, miscarriage, birth defects, and sexual development. Fetuses, infants and children are especially susceptible because they are continually experiencing growth and hormonal changes. For optimal growth and development, it is crucial that their hormonal system is functioning properly.... The endocrine disrupting properties also lead to neurological disorders (learning disabilities (LD), attention deficit hyperactive disorder (ADHD), autism, dementia, Alzheimer's, schizophrenia and bipolar disorder). Those most susceptible are children and the elderly. [25]"*

Link: <http://healthimpactnews.com/2014/is-glyphosate-responsible-for-your-health-problems/>

### **Glyphosate Weedkiller in Our Food and Water?**

from *Infowars*, June 17, 2013

Excerpts:

*"In 2011, Earth Open Source said that official approval of glyphosate had been rash, problematic and deeply flawed. A comprehensive review of existing data*

*released in June 2011 by Earth Open Source suggested that industry regulators in Europe had known for years that glyphosate causes birth defects in the embryos of laboratory animals. Questions were raised about the role of the powerful agro-industry in rigging data pertaining to product safety and its undue influence on regulatory bodies (2)."*

*"With some hugely powerful players involved here, many of whom have successfully infiltrated important government and official bodies (9), much of the science and the ensuing debate surrounding glyphosate is being manipulated and hijacked by vested interests for commercial gain."*

Link: <http://www.infowars.com/glyphosate-weedkiller-in-our-food-and-water/>

### **Glyphosate, pathways to modern diseases II: Celiac sprue and gluten intolerance.**

From *Interdisciplinary Toxicology* , 2013 Dec;6(4):159-84. doi: 10.2478/intox-2013-0026

Excerpts:

*"Deficiencies in iron, cobalt, molybdenum, copper and other rare metals associated with celiac disease can be attributed to glyphosate's strong ability to chelate these elements. Deficiencies in tryptophan, tyrosine, methionine and selenomethionine associated with celiac disease match glyphosate's known depletion of these amino acids. Celiac disease patients have an increased risk to non-Hodgkin's lymphoma, which has also been implicated in glyphosate exposure. Reproductive issues associated with celiac disease, such as infertility, miscarriages, and birth defects, can also be explained by glyphosate. Glyphosate residues in wheat and other crops are likely increasing recently due to the growing practice of crop desiccation just prior to the harvest. We argue that the practice of "ripening" sugar cane with glyphosate may explain the recent surge in kidney failure among agricultural workers in Central America. We conclude with a plea to governments to reconsider policies regarding the safety of glyphosate residues in foods."*

Link: <http://www.ncbi.nlm.nih.gov/pubmed/24678255>

I invite you to search the WEB using "glyphosate" and "miscarriage." You will get several hundred thousand hits.

### **Here is the SERA Report's denial of the fact that glyphosate exposure causes miscarriages:**

The 2011 SERA glyphosate safety report at page 57 states:

*"One study analyzed self-reported spontaneous miscarriages of 3984 pregnancies among 1898 couples who self-reported exposures to glyphosate formulations within a period beginning 2 months before pregnancy and ending*

the 29 month of conception (Savitz et al., 1997). *Risk of miscarriage was unrelated to self-reported exposure to glyphosate formulations.*"

\*\*\*\*\*

## #3 Cancer

### Roundup and Glyphosate Toxicity Have Been Grossly Underestimated

Published by Mercola.com

Excerpt:

*"The true toxicity of glyphosate—the active ingredient in Monsanto's broad-spectrum herbicide Roundup—is becoming increasingly clear as study after study is published demonstrating its devastating effects. In June, groundbreaking research was published detailing a newfound [mechanism of harm](#) for Roundup.*

*This was immediately followed by tests showing that people in 18 countries across Europe have glyphosate in their bodies,<sup>1</sup> while yet another study revealed that the chemical has estrogenic properties and drives breast cancer proliferation in the parts-per-trillion range.<sup>2</sup>*

*This finding might help explain why rats fed Monsanto's maize developed massive breast tumors in the first-ever [lifetime feeding study](#) published last year. Other recently published studies demonstrate glyphosate's toxicity to cell lines, aquatic life, food animals, and humans."*

Link: <http://articles.mercola.com/sites/articles/archive/2013/07/30/glyphosate-toxicity.aspx#!>

### RoundUp--Lymphoma Connection

From a June 22, 1999 Press Release by Sadhbh O' Neill, author of *Genetic Concern*.

Excerpts:

***"A recent study by eminent oncologists Dr. Lennart Hardell and Dr. Mikael Eriksson of Sweden [1], has revealed clear links between one of the world's biggest selling herbicide, glyphosate, to non-Hodgkin's lymphoma, a form of cancer [2].***

*In the study published in the 15 March 1999 Journal of American Cancer Society, the researchers also maintain that exposure to glyphosate 'yielded increased risks for NHL.' They stress that with the rapidly increasing use of glyphosate since the time the study was carried out, 'glyphosate deserves further epidemiologic studies.'* "

Link: <http://www.naturescountrystore.com/roundup/page8.html>

### "RoundUp Ready" nears end of the line...

From *GroundTruth*, July 7, 2014

Excerpts:

*"With these dramatic increases in use, the frequency and level of human exposures to these herbicides have also gone up. As usage of glyphosate increases — for instance, as a wheat "dessicant" used at harvest-time to ensure that all of the crop is conveniently dry enough to harvest — glyphosate will continue to show up in everyday food items such as bread, and also in our surface water."*

*"Striking increases in the incidence of non-Hodgkin lymphoma cancer have occurred over the past 30 years. A 2014 systematic review and meta-analysis of epidemiology studies broke down the relationship between non-Hodgkin lymphoma and occupational exposure to agricultural pesticides by group and by active ingredient.*

*Among the findings — a handful of those studies identified a positive association between glyphosate and B cell lymphoma (a type of non-Hodgkin lymphoma)."*

Link: <http://www.panna.org/blog/roundup-ready-nears-end-line>

### **Study: Glyphosate Doubles Risk of Lymphoma**

From AgMag BLOG, May 23, 2014

Excerpt:

*"Scientists at the International Agency for Research on Cancer have found what appears to be a strong link between pesticide exposure and a blood cancer called non-Hodgkin lymphoma.*

*Analyzing 44 individual research projects published since 1980, the scientists, writing in the [International Journal of Environmental Research and Public Health](#), said that people exposed to the weed killer glyphosate, marked by Monsanto under the brand name Roundup, had **double** the risk of developing non-Hodgkin's lymphoma."*

Link: <http://www.ewg.org/agmag/2014/05/study-glyphosate-doubles-risk-lymphoma>

### **Cytotoxic and DNA-damaging properties of glyphosate and Roundup in human-derived buccal epithelial cells.**

From [Arch Toxicol](#). 2012 May;86(5):805-13. doi: 10.1007/s00204-012-0804-8. Epub 2012 Feb 14.

Excerpt:

*"Glyphosate (G) is the largest selling herbicide worldwide; the most common formulations (Roundup, R) contain polyoxyethyleneamine as main surfactant. Recent findings indicate that G exposure may cause DNA damage and cancer in humans. Aim of this investigation was to study the cytotoxic and genotoxic properties of G and R (UltraMax) in a buccal epithelial cell line (TR146), as workers are exposed via inhalation to the herbicide. R induced acute cytotoxic effects at concentrations > 40 mg/l after 20 min, which were due to membrane damage and impairment of mitochondrial functions. With*

*G, increased release of extracellular lactate dehydrogenase indicative for membrane damage was observed at doses > 80 mg/l. Both G and R induced DNA migration in single-cell gel electrophoresis assays at doses > 20 mg/l."*

Link: <http://www.ncbi.nlm.nih.gov/pubmed/22331240>

### **Roundup is tied to infertility and cancer; herbicide's maker calls it safe**

Published in the *Washington Post*, April 29, 2013

By Carey Gillam

Excerpts:

*"Roundup, may be linked to a range of health problems and diseases, including Parkinson's, infertility and cancers, according to a new study."*

*"Jerry Steiner, Monsanto's executive vice president of sustainability, reiterated that when questioned about the new study. "We are very confident in the long track record that glyphosate has. It has been very, very extensively studied," he said.*

Link:

[https://www.washingtonpost.com/national/health-science/roundup-is-tied-to-infertility-and-cancer-herbicides-maker-calls-it-safe/2013/04/29/ac86ced6-ae71-11e2-98ef-d1072ed3cc27\\_story.html](https://www.washingtonpost.com/national/health-science/roundup-is-tied-to-infertility-and-cancer-herbicides-maker-calls-it-safe/2013/04/29/ac86ced6-ae71-11e2-98ef-d1072ed3cc27_story.html)

I invite you to search the WEB using "glyphosate" and "cancer." You will get several hundred thousand hits.

### **Here is the SERA Report's denial of the fact that glyphosate exposure causes cancer:**

The SERA report at page 61 cites 23-year old U.S. EPA/OPP literature that concludes *there is "evidence of non-carcinogenicity for humans."* The SERA report then goes on to say thus, *"no quantitative risk assessment for cancer is conducted."*

\*\*\*\*\*

## **#4 DNA Damage**

### **Glyphosate Toxic to Mouth Cells & Damages DNA, Roundup Much Worse**

From an Institute of Science Publication, March 3, 2012

Excerpts:

*"New research finds that glyphosate causes cell and DNA damage to epithelial cells derived from the inside of the mouth and throat [1]. It raises concerns over the safety of inhaling glyphosate, one of the most common ways in which people are exposed to the herbicide.*



*Siegfried Knasmueller and his colleagues the Medical University of Vienna, Austria, found that Monsanto's formulated version of glyphosate called Roundup Ultra Max caused cellular damage and DNA damage including chromosomal abnormalities and ultimately killed the cells at higher concentrations. Importantly, DNA damage occurred at concentrations below those required to induce cell damage, suggesting that the DNA damage was caused directly by glyphosate instead of being an indirect result of cell toxicity."*

Link: [http://www.i-sis.org.uk/Glyphosate\\_Toxic\\_to\\_Mouth\\_Cells.php](http://www.i-sis.org.uk/Glyphosate_Toxic_to_Mouth_Cells.php)

### **Evaluation of DNA damage in an Ecuadorian population exposed to glyphosate** from *Genetics and Molecular Biology*, 30, 2, 456-460 (2007)

Excerpts:

*"We analyzed the consequences of aerial spraying with glyphosate added to a surfactant solution in the northern part of Ecuador. A total of 24 exposed and 21 unexposed control individuals were investigated using the comet assay. The results showed a higher degree of DNA damage in the exposed group (comet length = 35.5  $\mu$ m) compared to the control group (comet length = 25.94  $\mu$ m). These results suggest that in the formulation used during aerial spraying glyphosate had a genotoxic effect on the exposed individuals."*

Link: <http://www.scielo.br/pdf/gmb/v30n2/a26v30n2.pdf>

### **Monsanto's Roundup is Causing DNA Damage** from *Natural Society*, March 30, 2012

Excerpts:

*"There is a reason that masks are worn while applying herbicides and warning signs are erected upon recently sprayed land plots — herbicide exposure is known to cause serious health complications. New research has recently been released showing that glyphosate, the main active ingredient found in Monsanto's Roundup Ultra Max, is **causing both DNA and cellular damage to cells found in the mouth and throat**. Seeing as the inhalation of herbicides and ingredients like glyphosate is very common, this research alone is enough to raise concern over the safety of such substances which are used on a major scale."*

Link: <http://naturalsociety.com/monsantos-roundup-is-causing-dna-damage/>

### **Roundup: The "Safe" Garden Product that Can Destroy Your DNA** from *Mercola.com*, March 13, 2012

Excerpts:

*"Instead, new research is showing that glyphosate, the active ingredient in Monsanto's Roundup herbicide, is contaminating everything from food and air to groundwater and even human beings."*

*"Other independent scientific research has also found that glyphosate has the potential to cause grave health damage, including a 2009 study that tested formulations of Roundup that were highly diluted (up to 100,000 times or more) on human cells, and even then the cells died within 24 hours!"*

*"This can wreak havoc with your health as 80 percent of your immune system resides in your gut (GALT – Gut Associated Lymph Tissue) and is dependent on a healthy ratio of good and bad bacteria! Separate research has also uncovered the following effects from glyphosate: DNA damage, Neurotoxicity, Cancer, Endocrine disruption, Developmental toxicity and Reproductive toxicity."*

Link: <http://articles.mercola.com/sites/articles/archive/2012/03/13/active-ingredient-glyphosate-in-roundup-herbicides-found-in-peoples-urine.aspx>

### **Carcinogenic Glyphosate Linked to DNA Damage as Residues are found in Bread** from *Beyond Pesticides*, July 22, 2015

Excerpts:

*"The new report, **Glyphosate: Unsafe on Any Plate**, found high levels of glyphosate contamination in popular American food brands, such as Cheerios, Doritos, Oreos, Goldfish and Ritz Crackers, and Stacy's Pita Chips. According to the report, the levels that found in these products are above the levels associated with [organ damage](#) (above 0.1 parts per billion(ppb)). Among 29 different foods tested, the highest levels detected were found in General Mills' Original Cheerios, at 1,125.3 ppb. Stacy's Simply Naked Pita Chips were the next highest, at 812.53 ppb. The testing and analysis was performed by Anresco Laboratories, which is an FDA registered laboratory."*

*"Given its widespread use on residential and agricultural sites, its toxicity is of increasing concern. Roundup formulations can induce a dose-dependent formation of DNA adducts (altered forms of DNA linked to chemical exposure, playing a key role in chemical carcinogenesis) in the kidneys and liver of mice. Human cell endocrine disruption on the androgen receptor, inhibition of transcriptional activities on estrogen receptors on HepG2, DNA damage and cytotoxic effects occurring at concentrations well below "acceptable" residues have all been observed."*

Link: <http://beyondpesticides.org/dailynewsblog/2015/07/carcinogenic-glyphosate-linked-to-dna-damage-as-residues-are-found-in-bread/>

I invite you to search the WEB using "glyphosate" and "DNA" and "damage." You will get several hundred thousand hits.

**Here is the SERA Report's denial of the fact that glyphosate exposure causes DNA damage:**

The SERA report at page 64 states:

More serious limitations in the Paz-y-Mino et al. (2007) study involve the failure to demonstrate either temporal or spatial associations between exposure and effect. Paz-y-Mino et al. (2007) simply tested two groups of individuals after a spray and noted a difference. If the individuals at both sites had been tested before and after spraying, a temporal association could have been detected. Similarly, Paz-y-Mino et al. (2007) note that the exposed group consisted of individuals who lived at the spray site as well as individuals who lived as many as 3 miles away from the spray site. If Paz-y-Mino et al. (2007) had assessed responses based on proximity to the spray and noted some positive correlation in the responses, confidence in their assertion that the glyphosate spray caused the observed effect would be enhanced. *In the absence of these types of analyses, the assertion that the differences (i.e., chromosomal damage) between the two populations are due to glyphosate exposure is weak.*

\*\*\*\*\*

## #5 Cell Death

### The Hidden Dangers of Roundup

From *Natural News*, February 05, 2009

Excerpts:

*"The researchers also reported that G acted very quickly at concentrations 500 to 1000 times lower than present agricultural levels to induce programmed cell death. G alone was found to induce mitochondrial toxicity without cell membrane damage. Furthermore, the researchers tested very weak concentrations (.005%) of Roundup and reported cell death, lack of adhesion, shrinking and fragmentation in the cells undergoing apoptosis. The embryonic cells were the most sensitive indicating another major reason to eat only organic foods while pregnant."*

Link: [http://www.naturalnews.com/025534\\_Roundup\\_research\\_toxic.html](http://www.naturalnews.com/025534_Roundup_research_toxic.html)

### Endocrine disruption and cytotoxicity of glyphosate and roundup in human JAr cells *in vitro*

from *Integr Pharm Toxicol Gentocol*, 2015 doi: 10.15761/IPTG.1000104

Excerpts:

*"Endocrine disruption effects were secondary to cytotoxicity. Roundup was more cytotoxic than the same concentration of glyphosate alone, indicating that the other constituents of the herbicide are not inert. There is a compelling need to conduct in vivo studies to characterise the toxicity of glyphosate in a Roundup formulation, to facilitate re-evaluation of existing public health guidelines."*

Link: <http://www.gmoeevidence.com/wp-content/uploads/2015/03/IPTG-1-104.pdf>

### Roundup Weed Killer Dangers

from Garden Guides.com, January 2013

Excerpts:

*"Monsanto's Roundup weed killer was originally marketed as being "biodegradable" and "environmentally friendly." However, in response to complaints from the New York Attorney General's office, the company agreed to stop using those terms in marketing and advertising. Roundup herbicide uses the active ingredient glyphosate, sometimes called "G." Glyphosate has been implicated in a number of potential dangers."*

*"Excessive exposure to the active ingredient of Roundup, glyphosate, can cause a range of **symptoms**. Some of the 23 symptoms of glyphosate poisoning include reduced urination, cough, diarrhea, drowsiness, difficulty swallowing and breathing, nausea and vomiting, sore throat, blood in vomit or urine, stomach inflammation, and reduced blood pressure. Continued exposure can result in destruction of red blood cells, respiratory failure, and permanent kidney damage. Poisoning by Roundup requires a visit to a doctor or other professional chemical decontamination specialist. If you suspect acute glyphosate poisoning, contact your local poison control center or emergency room."*

Link: <http://www.gardenguides.com/127538-roundup-weed-killer-dangers.html>

### **Monsanto's Roundup is Causing DNA and Cellular Damage**

from *Health and Wellness*, March 30, 2012

Excerpts:

*"There is a reason that masks are worn while applying herbicides, and warning signs are erected upon recently sprayed land plots; herbicide exposure is known to cause serious health complications.*

*New research has recently been released showing that glyphosate, the main active ingredient found in Monsanto's [Roundup](#) Ultra Max, is **causing both DNA and cellular damage to cells found in the mouth and throat.**"*

Link: <http://www.sott.net/article/243580-Monsantos-Roundup-is-Causing-DNA-and-Cellular-Damage>

I invite you to search the WEB using "glyphosate" and "cell damage." You will get several hundred thousand hits.

### **Here is the SERA Report's denial of the fact that glyphosate exposure causes cell death:**

The SERA report at page 62 states:

*"Rank et al. (1993) also note that these exposure levels are near to those that cause cell death. **The study does not provide information regarding the volume of the test solution in each plate.** Assuming that Rank et al. (1993) used standard methods, the volume of the test solution in this type of assay is approximately 2-3 mL (U.S. EPA/OPPTS 1998a). Based on the upper range of 3 mL (0.003 L), the estimated concentrations in the test*

solutions are about 120- 240 mg/L [0.360 mg to 0.72 mg/plate ÷ 0.003 L/plate]. These concentrations would be plausible in the gastrointestinal tract following acute oral exposure to a nontoxic dose of glyphosate (Table 10) *but are from about 140 to 280-fold greater than peak plausible concentrations in plasma* (≈0.86 mg/L).”

\*\*\*\*\*

## #6 Autism

### MIT Researcher: Glyphosate Herbicide will Cause Half of All Children to Have Autism by 2025

Posted on December 23, 2014 at: *Alliance for Natural Health*

Excerpt:

“At a [recent] conference, in a special panel discussion about GMOs, she took the audience by surprise when she declared, **“At today’s rate, by 2025, one in two children will be autistic.”** She noted that the side effects of autism closely mimic those of glyphosate toxicity, and presented data showing a remarkably consistent correlation between the use of Roundup on crops (and the creation of Roundup-ready GMO crop seeds) with rising rates of autism. Children with autism have biomarkers indicative of excessive glyphosate, including zinc and iron deficiency, low serum sulfate, seizures, and mitochondrial disorder.”

Here are other links explaining how research shows the mother’s exposure to glyphosate likely causes her to have autistic babies.

Links: <http://healthimpactnews.com/2014/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025/>

<http://circleofdocs.com/community/topic/4106-mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025/>

<http://circleofdocs.com/community/topic/4106-mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025/>

<http://www.livingforlonger.com/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025/>

<http://sensoryswim.com/autism-roundup>

<http://www.infowars.com/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit/>

<http://robinwestenra.blogspot.com/2015/02/warning-half-of-all-children-will-be.html>

<http://www.medicaldaily.com/autism-rates-increase-2025-glyphosate-herbicide-may-be-responsible-future-half-316388>

<http://www.vibrationsofhealth.com/gmos-will-cause-half-of-all-children-to-be-autistic-by-2025/2/>

There is not enough room to quote excerpts from them all. Here are the rest for those who are interested in the autism-glyphosate links.

<http://www.healthnutnews.com/mit-researcher-glyphosate-herbicide-will-cause-half-children-autism-2025/>  
<http://www.getholistichealth.com/41171/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025/>  
<http://beforeitsnews.com/alternative/2015/03/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025-3130842.html>  
<http://gmoinside.org/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-austim-by-2025-health-impact-news/>  
<http://www.uncensorednewsnetwork.com/current-events/mit-researcher-glyphosate-herbicide-will-cause-half-of-all-children-to-have-autism-by-2025>  
<http://help.howproblemsolution.com/1131497/mit-researcher-herbicides-will-cause-half-of-all-children-to-have-autism-by-2025>  
<http://agentorangezone.blogspot.com/2015/05/mit-researcher-glyphosate-herbicide.html>  
<http://www.globalresearch.ca/monsantos-roundup-glyphosate-overuse-scientist-warns-half-of-all-children-will-be-autistic-by-2025/5423676>  
<http://www.theepochtimes.com/n3/1179553-glyphosate-causing-autism-mit-researcher-claims-herbicide-will-cause-half-of-all-children-to-be-autistic/>  
[http://www.naturalnews.com/048099\\_autism\\_glyphosate\\_Monsanto.html](http://www.naturalnews.com/048099_autism_glyphosate_Monsanto.html)  
<https://www.organicconsumers.org/news/warning-half-all-children-will-have-autism-2025>  
[http://www.momsacrossamerica.com/the\\_autism\\_and\\_glyphosate\\_roundup\\_link\\_a\\_mom\\_s\\_argument](http://www.momsacrossamerica.com/the_autism_and_glyphosate_roundup_link_a_mom_s_argument)  
<http://tapnewswire.com/2014/12/half-of-all-children-will-be-autistic-by-2025-monsantos-glyphosate/>  
<http://www.lawnsite.com/showthread.php?t=434553>  
<http://www.thetruthseeker.co.uk/?p=109006>  
<http://journal-neo.org/2015/01/26/mit-states-that-half-of-all-children-may-be-autistic-by-2025/>  
<http://www.americasfreedomfighters.com/2014/12/28/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit/>  
<http://the-trumpet-online.com/half-children-will-autistic-2025-warns-senior-research-scientist-mit/>  
[https://www.youtube.com/watch?v=O9KWalwD\\_Nk](https://www.youtube.com/watch?v=O9KWalwD_Nk)  
<http://edgytruth.com/2015/02/25/half-of-all-children-could-be-autistic-by-2025-due-to-monsanto/>  
<http://www.investigatorsreport.com/health-news/autism/item/2583-half-of-all-children-will-be-autistic-by-2025,-warns-senior-research-scientist-at-mit.html>  
<http://ehsmanager.blogspot.com/2015/01/glyphosate-causing-autism-mit.html>  
<http://theunhivemind.com/wordpress3/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit/>  
<http://investmentwatchblog.com/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit-number-of-adverse-reactions-from-vaccines-can-be-correlated-with-autism/>  
<http://truthfrequencyradio.com/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit/>  
<http://www.naturallifeenergy.com/senior-research-scientist-mit-warns-children-autistic-2025/>  
<https://zedie.wordpress.com/2014/12/28/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit-the-alliance-for-natural-health-usa/>  
<https://usahitman.com/mshcmba/>  
[http://www.liveleak.com/view?i=d36\\_1422305199](http://www.liveleak.com/view?i=d36_1422305199)  
<http://soundofheart.org/galacticfreepress/content/mit-states-half-all-children-may-be-autistic-2025-due-monsanto>  
<http://www.thelibertybeacon.com/2014/12/26/half-of-all-children-will-be-autistic-by-2025-warns-senior-research-scientist-at-mit/>  
[http://www.blacklistednews.com/Half\\_of\\_All\\_Children\\_Will\\_Be\\_Autistic\\_by\\_2025\\_Warns\\_Senior\\_Research\\_Scientist\\_at\\_MIT/40301/0/38/38/Y/M.html](http://www.blacklistednews.com/Half_of_All_Children_Will_Be_Autistic_by_2025_Warns_Senior_Research_Scientist_at_MIT/40301/0/38/38/Y/M.html)  
<http://medicsindex.ning.com/forum/topics/medical-news-half-of-all-children-could-be-autistic-by-2025-due>

I invite you to search the WEB using “glyphosate” and “autism.” You will get several hundred thousand hits.

Here is the SERA Report’s denial of the fact that pregnant women are exposed to glyphosate they have autistic children at a statistically significant higher rate than normal:

**Incredibly, the SERA report does not contain the word “autism.”**

\*\*\*\*\*

**#7 Neurological disorders such as:  
learning disabilities, attention deficit  
hyperactive disorder (ADHD), autism,  
dementia, Alzheimer's, schizophrenia  
and bipolar disorder. Those most  
susceptible are children and the elderly.”**

**GMO's & Neurological Disease: ADHD, Autism, Alzheimer's, Schizophrenia,  
Bipolar**

From Health and Wellness, October 8, 2013

Excerpt:

*“The endocrine disrupting properties of glyphosate can lead to neurological disorders (learning disabilities (LD), attention deficit hyperactive disorder (ADHD), autism, dementia, Alzheimer's, schizophrenia and bipolar disorder). Those most susceptible are children and the elderly.”*

Link: <http://www.sott.net/article/267227-GMOs-Neurological-Disease-ADHD-Autism-Alzheimers-Schizophrenia-Bipolar>

**Roundup herbicide linked to Parkinson’s-related brain damage**

from *Health*, April 21, 2012

Excerpt:

*“This month a new and alarming study has been published in the journal Neurotoxicology and Teratology which supports the emerging connection between glyphosate, Roundup's active ingredient, and the emergence of neurodegenerative conditions including Parkinson's disease and Parkinsonian disorders.*



*The new study, entitled "Glyphosate induced cell death through apoptotic and autophagic mechanisms," was arranged to investigate potential brain-damaging effects of herbicides which authors of the study stated "have been recognized as the main environmental factor associated with neurodegenerative disorders, such as Parkinson's disease."*

Link: <http://www.digitaljournal.com/article/323391>

### **Neurotoxins?**

from the Detox Project sponsored by the World Health Organization, 2015

Excerpt:

*"Some studies suggest that both glyphosate and Roundup are possibly neurotoxins (toxic to the nervous system). Neurological diseases in humans include Parkinson's disease, Alzheimer's disease, and some forms of depression. Neurodevelopmental toxicity to the growing foetus or to babies can result in autism and attention deficit hyperactivity disorder (ADHD)."*

Link: <http://detoxproject.org/glyphosate/neurological-disease/>

I invite you to search the WEB using "glyphosate" and "neurological disorders." You will get several hundred thousand hits.

**Here is the SERA Report's denial of the fact that glyphosate exposure causes neurological disorders:**

**The 2011 SERA glyphosate safety report states:**

"In the Reregistration Eligibility Decision (RED) document for glyphosate (U.S. EPA/OPP1993a), the U.S. EPA notes that standard toxicity studies of glyphosate do not suggest that this pesticide is neurotoxic and that specific toxicity tests for neurotoxicity are not necessary:

*The acute and 90-day neurotoxicity screening battery in the rat (guidelines 81-8-SS, 82-7) is not being required since there was no evidence of neurotoxicity seen in any of the existing studies at very high doses and this chemical lacks a leaving group; therefore, it would not seem likely to inhibit esterases (the presumptive neurotoxic mechanism of concern for all organophosphates). U.S. EPA/OPP 1993a, p. 18"*  
(page 41 on the SERA report)

*"Thus, effects reported in Schiffman et al. (1995) cannot be classified clearly as a glyphosate-induced neurological effect." (page 43)*

*"As noted above, extreme and sometimes fatal over-exposures to glyphosate are not generally associated with neurologic effects." (page 45)*

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## #8 Irreparable kidney and liver damage

### Unique Gene Expression Study Shows Roundup Causes Massive Kidney and Liver Damage at Low Doses

From *Sustainable Pulse*, Aug 26, 2015 at:

Excerpts:

*"A new ground-breaking peer-reviewed study has been published in [Environmental Health Journal](#) that shows the levels of glyphosate-based herbicides which the general public are commonly exposed to in drinking water, altered the gene function of over 4000 genes in the livers and kidneys of rats."*

*"Dr. Antoniou stated; "The findings of our study are very worrying as they confirm that a very low level of consumption of Roundup weedkiller over the long term can result in liver and kidney damage. Our results also suggest that regulators should re-consider the safety evaluation of glyphosate-based herbicides." "*

Link: [http://sustainablepulse.com/2015/08/26/unique-roundup-study-shows-massive-kidney-and-liver-gene-function-alterations/#.Vd8p0Zbn\\_IX](http://sustainablepulse.com/2015/08/26/unique-roundup-study-shows-massive-kidney-and-liver-gene-function-alterations/#.Vd8p0Zbn_IX)

### More evidence of Roundup's link to kidney, liver damage

From *Environmental Health News*, September 1, 2015

Excerpts:

*"Long-term exposure to tiny amounts of Roundup—thousands of times lower than what is permitted in U.S. drinking water—may lead to serious problems in the liver and kidneys, according to [a new study](#)."*

*The study looked at the function of genes in these organs and bolsters a controversial 2012 study that found rats exposed to small amounts of the herbicide Roundup in their drinking water had liver and kidney damage.*

*It is the first to examine the impacts of chronic, low exposure of Roundup on genes in livers and kidneys and suggests another potential health impact for people and animals from the widely used weed killer."*

Link: <http://www.environmentalhealthnews.org/ehs/news/2015/aug/monsanto-roundup-glyphosate-pesticide-kidney-liver-toxic-gmo>

### MONSANTO'S HERBICIDE LINKED TO FATAL KIDNEY DISEASE EPIDEMIC: COULD IT TOPPLE THE COMPANY?

from *Truthout*, July 10, 2014

Excerpts:

*"For years, scientists have been trying to unravel the [mystery](#) of a chronic kidney disease epidemic that has hit Central America, India and Sri Lanka. The disease occurs in poor peasant farmers who do hard physical work in hot climes. In each instance, the farmers have been exposed to herbicides and to heavy metals. The disease is known as CKDu, for Chronic Kidney Disease of unknown etiology. The "u" differentiates this illness from other chronic kidney diseases where the cause is known. Very few Western medical practitioners are even aware of CKDu, despite the terrible toll it has taken on poor farmers from El Salvador to South Asia."*

*"[Dr. Catharina Wesseling](#), the regional director for the [Program on Work and Health \(SALTRA\)](#) in Central America, which pioneered the initial studies of the region's [unsolved outbreak](#), put it this way, "Nephrologists and public health professionals from wealthy countries are mostly either unfamiliar with the problem or skeptical whether it even exists." "*

*"We know that political changes in Sri Lanka in the late 1970s led to the introduction of agrochemicals, especially in rice farming. The researchers looked for likely suspects. Everything pointed to [glyphosate](#). This herbicide is used in abundance in Sri Lanka. Earlier [studies](#) had shown that once glyphosate binds with metals, the glyphosate-metal complex can last for decades in the soil."*

Link: <http://www.truth-out.org/news/item/24876-monsantos-herbicide-linked-to-fatal-kidney-disease-epidemic-will-ckdu-topple-monsanto>

### **Other sites also discuss glyphosate and kidney failures:**

<http://www.truth-out.org/news/item/32585-more-evidence-of-roundup-s-link-to-kidney-liver-damage>  
<http://www.democraticunderground.com/10027132287>  
<http://www.chemwatch.net/185836/more-evidence-of-roundups-link-to-kidney-liver-damage>  
<http://gmwatch.org/news/latest-news/16377-more-evidence-of-roundup-s-link-to-kidney-liver-damage>  
<http://www.infowars.com/evidence-mounts-on-roundups-link-to-liver-and-kidney-damage/>  
<http://www.sej.org/headlines/more-evidence-roundups-link-kidney-liver-damage>  
<http://www.globalhealingcenter.com/natural-health/evidence-mounts-on-roundups-link-to-liver-and-kidney-damage/>  
<http://wakeup-world.com/2015/10/15/evidence-mounts-on-roundups-link-to-liver-and-kidney-damage/>  
<https://protestationdotorg.wordpress.com/2015/09/01/more-evidence-of-roundups-link-to-kidney-liver-damage/>  
<https://authenticallymale.wordpress.com/2015/09/02/more-evidence-of-roundups-link-to-kidney-liver-damage/>  
<https://clinicpress.com/blog/more-evidence-of-roundups-link-to-kidney-liver-damage-environmental-health-news/>  
<http://cureliver.info/liver/more-evidence-of-roundups-link-to-kidney-liver-damage-environmental-health-news>  
<http://www.thesleuthjournal.com/evidence-mounts-on-roundups-link-to-liver-and-kidney-damage/>  
<http://todayeco.com/pages/59185402-more-evidence-of-roundups-link-to-kidney-liver-damage>  
[http://article.wn.com/view/2015/08/28/More\\_evidence\\_of\\_Roundups\\_link\\_to\\_kidney\\_liver\\_damage/](http://article.wn.com/view/2015/08/28/More_evidence_of_Roundups_link_to_kidney_liver_damage/)  
<https://www.pinterest.com/pin/206602701633503702/>

<http://gmwatch.eu/news/latest-news/16377-more-evidence-of-roundup-s-link-to-kidney-liver-damage>  
<http://www.grbnews.net/more-evidence-of-roundups-link-to-kidney-liver-damage-scientists-report-worrisome-changes-to-liver-and-kidney-genes-in-rats-adding-to-evidence-that-a-popular-herbicide-may-be-toxic.html>  
<http://www.collective-evolution.com/2014/07/15/new-study-links-gmos-to-cancer-liverkidney-damage-severe-hormonal-disruption/>  
<http://have-anticipated.beforeitsnews.com/christian-news/2015/08/roundup-link-to-kidney-liver-disease-dupont-shit-hit-the-fan-latvia-greece-win-opt-out-from-monsanto-gm-crop-2516448.html>

I invite you to search the WEB using “glyphosate” and “liver damage.” You will get several hundred thousand hits.

**Here is the SERA Report’s denial of the fact that glyphosate exposure causes kidney and liver damage:**

The 2011 SERA glyphosate safety report states:

“Signs of kidney toxicity, which might be expected based on observations from human suicide attempts (Appendix 2, Table 6), have not been reported consistently and are not severe (e.g., MRIDs 00130406 and 00150564; NTP 1992).” (pages 38 and 39)

As discussed by U.S. EPA/OPP (1993b), the multi-generation study in rats by Reyna (1985) failed to note any adverse kidney effects at a dose of 500 mg/kg bw/day, which is about 17 times greater than the presumed LOAEL of 30 mg/kg bw/day in study by Schroeder and Hogan (1981).

Consequently, U.S. EPA/OPP (1993b) concurred with the assessment by Schroeder and Hogan (1981) and considers the finding of kidney tubule dilation a spurious effect.” (page 104)

By the end of the 65-day exposure period, there was no apparent inhibition of liver esterase (Li and Kole 2004, Table II).” (page 142)

\*\*\*\*\*

## #9 Parkinson's-Related Brain Damage

**Monsanto’s Roundup, Glyphosate Linked to Parkinson’s and Similar Diseases**  
From *Natural Society*, October 30, 2012

Excerpt:

*“We already know the links between herbicides and sterility in men, birth defects, [mental illness](#), obesity and possibly cancer—but now we have something new to add to the nasty [effects of pesticides](#) list — Parkinson’s disease and similar neurodegenerative conditions.*

New research, published in the journal **Neurotoxicology and Teratology**, indicates a connection between a component in Monsanto's Roundup and Parkinson's disease. [Glyphosate](#) is said to [induce cell death](#), with frightening repercussions."

Link: <http://naturalsociety.com/monsantos-roundup-glyphosate-parkinsons-neurodegenerative/>

### **Roundup, An Herbicide, Could Be Linked To Parkinson's, Cancer And Other Health Issues, Study Shows**

From *Huffington Post*, January 25, 2013

Excerpt:

*"Those residues enhance the damaging effects of other food-borne chemical residues and toxins in the environment to disrupt normal body functions and induce disease, according to the report, authored by Stephanie Seneff, a research scientist at the Massachusetts Institute of Technology, and Anthony Samsel, a retired science consultant from Arthur D. Little, Inc. Samsel is a former private environmental government contractor as well as a member of the Union of Concerned Scientists.*

*"Negative impact on the body is insidious and manifests slowly over time as inflammation damages cellular systems throughout the body," the study says.*

*We "have hit upon something very important that needs to be taken seriously and further investigated," Seneff said.*

Link: [http://www.huffingtonpost.com/2013/04/25/roundup-herbicide-health-issues-disease\\_n\\_3156575.html](http://www.huffingtonpost.com/2013/04/25/roundup-herbicide-health-issues-disease_n_3156575.html)

### **Pesticides and herbicides like glyphosate now strongly linked to Parkinson's disease and other neurological disorders**

From *Natural News*, March 8, 2016

Excerpt:

*"(NaturalNews) The genes of the human race have never been under such intense pressure from their surrounding environment. [Pesticide and herbicide chemicals](#) that confuse, distort and destroy the natural chemistry of life and microbiology, are being sprayed directly on the foods that people eat. The ill effects are being measured all the way down to the genetic level. In the presence of pesticides and herbicides like glyphosate, healthy genes that were meant to be expressed are being turned off, and genes that were intended to lie dormant are being turned on. The human race is experiencing a shift like never before, and the [epigenetic changes](#) are occurring silently, without human understanding."*

Link: [http://www.naturalnews.com/053226\\_herbicides\\_gene\\_expression\\_Parkinsons.html](http://www.naturalnews.com/053226_herbicides_gene_expression_Parkinsons.html)

### **Roundup herbicide linked to Parkinson's-related brain damage**

From the National Parkinson Foundation, April 21, 2012

Excerpts:

*"Monsanto's controversial herbicide, Roundup, has now been linked to Parkinsonism related disorders according to research reported in the Neurotoxicology & Teratology journal.*

*This month a new and alarming study has been published in the journal [Neurotoxicology and Teratology](#) which supports the emerging connection between glyphosate, Roundup's active ingredient, and the emergence of neurodegenerative conditions including Parkinson's disease and [Parkinsonian disorders](#). The new study, entitled "Glyphosate induced cell death through apoptotic and autophagic mechanisms," was arranged to investigate potential brain-damaging effects of herbicides which authors of the study stated "have been recognized as the main environmental factor associated with neurodegenerative disorders, such as Parkinson's disease." With the current wide use of Roundup herbicide in the U.S.A., it is considered to be a contaminant in air, groundwater, rain and food, making it virtually impossible to avoid. Researchers in the new study found that glyphosate inhibited the viability of differentiated test cells (PC12, adrenal medulla derived), in both dose-and-time dependent manners. They also discovered "glyphosate induced cell death via autophagy pathways in addition to activating apoptotic pathways."*

Link: <http://forum.parkinson.org/index.php?/topic/12649-roundup-herbicide-linked-to-parkinson%E2%80%99s-related-brain-damage/>

### **Monsanto's Roundup Weedkiller Linked to Alzheimer's, Parkinson's and ALS**

From *Alternet*, July 19, 2016

Excerpt:

*"According to the most recent review, Glyphosate pathways to modern disease V: Amino acid analogue of glycine in diverse proteins, conducted by independent scientists Anthony Samsel, Ph.D. and Stephanie Seneff, Ph.D., a scientist at Massachusetts Institute of Technology (MIT), glyphosate acts as a glycine analogue that incorporates into peptides during protein synthesis. In this process, it alters a number of proteins that depend on conserved glycine for proper function. According to the authors, glyphosate substitution for glycine correlates with several diseases, including diabetes, obesity, asthma, Alzheimer's disease, amyotrophic lateral sclerosis (ALS), and Parkinson's disease, among others."*

Link: <http://www.alternet.org/food/monsantos-roundup-weedkiller-changes-dna-function-causing-chronic-disease>

### **Monsanto's Roundup, Glyphosate Linked to Parkinson's and Similar Diseases**

From *Reader Supported News*, October 13, 2012

Excerpt:

*"We already know the links between herbicides and sterility in men, birth defects, [mental illness](#), obesity and possibly cancer - but now we have something new to add to the nasty [effects of pesticides](#) list - Parkinson's disease and similar neurodegenerative conditions.*

*New research, published in the journal Neurotoxicology and Teratology, indicates a connection between a component in Monsanto's Roundup and Parkinson's disease. Glyphosate is said to induce cell death, with frightening repercussions."*

Link: <http://readersupportednews.org/news-section2/312-16/14279-monsantos-roundup-glyphosate-linked-to-parkinsons-and-similar-diseases>

I invite you to search the WEB using "glyphosate" and "Parkinsons." You will get several hundred thousand hits.

**Here is the SERA Report's denial of the fact that glyphosate exposure causes Parkinson's-related brain damage:**

The 2011 SERA glyphosate safety report states:

"At this point, there is no evidence to conclude that glyphosate can produce or exacerbate Parkinsonism; indeed, the Barbosa et al. (2001) observation stands in contrast to the abundant case literature which suggests that glyphosate is not a neurotoxicant in humans. The possible connection between the onset of Parkinsonism and the exposure to glyphosate cannot be established from the single case reported by Barbosa et al. (2001), as the apparent concurrence of the two effects could be coincidental. A coincidental association is suggested by the fact no other cases of glyphosate-related Parkinsonism have been reported in the literature in the nearly 10-year period since the Barbosa et al. (2001) publication. **Thus, as with the report by Ptok (2009) on speech disorder, the report by Barbosa et al. (2001) is essentially anecdotal and does not demonstrate a causal relationship between glyphosate and the development of Parkinsonism.**" (pg 45)

This would be enough to discredit and invalidate the 2011 SERA "Glyphosate -Human Health and Ecological Risk Assessment Final Report" in the minds of reasonably intelligent, thinking, kind USFS people who would not kill other human beings just because the USDA says it's OK.

You can believe one dubious glyphosate safety study (SERA), or you can be responsible and act according to hundreds of independent scientists' research conclusions. The SERA safety report is the only source among hundreds of other safety research conclusions available that shows glyphosate exposure is safe.





# Section 3

## Children are especially susceptible to glyphosate poisoning

Here is information that won't please you.

### Concerns Over Glyphosate Use

Published in *The Sun* (Malaysia), Friday August 20, 1999

Excerpt:

*"The establishment of the World Health Organization's (WHO's) Acceptable Daily Intake (ADI) is based on limited studies using limited parameters which do not account for vulnerable groups such as children, the elderly, the sick and other groups that might have increased susceptibility to glyphosate exposure."*

Link: <http://www.poptel.org.uk/panap/archives/glywb.htm>

### Photo images of glyphosate and children

Link:

<http://www.bing.com/images/search?q=glyphosate+children&qvvt=glyphosate+children&qvvt=glyphosate+children&FORM=IGRE>

### Are Your Children Roundup-Ready?

Published by the *Cornucopia Institute*, October 1, 2015

Excerpt:

*"Feeding herbicide-tolerant GE corn and soy to children gives them a dose of glyphosate with every bite. Glyphosate is often portrayed by the manufacturers as safe for human exposure while being deadly to weeds. However, scientific research indicates that the herbicide is not as harmless as it has been portrayed. Rather, evidence shows that glyphosate may be the most important factor in the development of multiple chronic diseases and conditions now prevalent in Westernized societies."*

Link: <http://www.cornucopia.org/2015/10/are-your-children-roundup-ready/>

### Alleged Glyphosate Poisoning Kills 2 Children, 33 More in Hospital

Published by *Natural Society*, August 2, 2014

Excerpt:

*“Two children (ages 3-yrs, and 6 mos.) from the same family suddenly died last week, one en route to the hospital, another just after being released due to a poisoning outbreak of glyphosate in the Huber Duré settlement. Their bodies have been sent to the capital of Paraguay, Asunción, for detailed autopsies which could confirm that glyphosate was the cause of death.”*

*The reported poisoning outbreak in Huber Duré is not the first case. Over the past few years, there have been many reports of poisoning, increased abortions, and the death of farm animals in the areas where heavy pesticide spraying is conducted. Following these cases, local residents protested, but authorities took no action to address their concerns.”*

Link: <http://naturalsociety.com/alleged-glyphosate-poisoning-kills-2-children-33-hospital/>

## **Glyphosate toxicity – impacts on the environment and non-target species**

Published by the Permaculture College Australia

Excerpt:

*“Studies on human cells showed toxicity and hormone disruption at sub agricultural levels with effects within 24 hours caused by concentrations as low as 0.5 parts per million. And DNA damage at 5 parts per million. The impact of glyphosate-based herbicides residues in food, feed or in the environment now has thus to be considered real. PMID: 19539684*

*The exposure of children to glyphosate should be avoided as recent animal studies have shown that commercial formulation of glyphosate is a potent endocrine (hormone) disruptor, causing disturbances in reproductive development when the exposure was during the puberty period (5)”*

Link: <http://permaculture.com.au/glyphosate-toxicity-impacts-on-the-environment-and-non-target-species/>



## **Section 4**

**Herbicides that contain glyphosate are banned in Denmark, England, Italy, El Salvador, Sri Lanka, France, Holland, Austria, Bulgaria, Germany, Greece, Hungary, Ireland, Japan, Chile, South Africa, Luxembourg, Madeira, Cameroon, New Zealand, Peru, South Australia, Russia, France, Switzerland, Columbia, and Costa Rica.**

## **If Monsanto didn't control the regulatory agencies in America we would be among the countries listed above.**

Please open the link below to learn about more countries that protect their citizens and America doesn't.

<http://www.bing.com/search?q=Roundup+Banned+in+What+Countries&first=1&FORM=PERE>

Who would believe Cameroon, Sri Lanka and Russia would protect their citizens when America ignores the tragic effects of glyphosate.

### **Monsanto Has Been Removed And Banned By: Austria, Bulgaria, Germany, Greece, Hungary, Ireland, Japan, Luxembourg, Madeira, New Zealand, Peru, South Australia, Russia, France, and Switzerland!**

Published by Political Vel Craft, March 23, 2013

Excerpts:

"Now we know without a doubt that smoking and lung and throat cancer are kissing cousins. Because GMOs have been around for 15 years or so, with no long-term studies other than Monsanto's being done, we only have Monsanto's word that GMOs are safe."

"We know that when Obama campaigned in 2008, he promised he would label GMOs. When elected, not only did he renege on that promise but immediately appointed former Monsanto VP and attorney Michael Taylor, aka "[Monsanto](#) Mike", as the Head of Food Safety at the Fraud and Drug Administration and [Tom Vilsack](#), another biotech hooker, as the Secretary of Agriculture."

Link: <https://politicalvelcraft.org/2013/03/23/monsanto-has-been-removed-and-banned-by-austria-bulgaria-germany-greece-hungary-ireland-japan-luxembourg-madeira-new-zealand-peru-south-australia-russia-france-and-switzerland/>

### **El Salvador bans glyphosate**

Published by *Natural News*, October 22, 2013

Excerpts:

*"While the U.S. Environmental Protection Agency (EPA) was busy [doubling](#) (and in some cases quadrupling) the amount of allowable glyphosate residue on certain foods, the nation of El Salvador actually heeded the grim data surrounding the herbicide's disastrous effect on our environment and everything in it and decided to outright ban the chemical."*

*"A wealth of independent (read: not funded by Monsanto or Big Agra interests) research been published over the last year to further affirm the havoc wreaked by the now ubiquitous chemical, most notably, award-winning scientist Gilles-Eric Seralini's genetically modified corn toxicity study published in the journal Food and Chemical Toxicity last fall. Seralini and his team found that feeding rats Monsanto's glyphosate-resistant GMO corn resulted in massive bodily system*

*failures, including chronic hormone and reproductive disruption, severe liver and kidney damage and the formation of large tumors which may have been, according to the study, a result of endocrine disruption linked to Roundup.*

*Other recent research continued to confirm the link between glyphosate and Colony Collapse Disorder, the mass wipeout of America's honeybee population. This is especially troubling, considering the fact that bees are responsible for pollinating every third bite of food on our forks in this country."*

Link: [http://www.naturalnews.com/042608\\_El\\_Salvador\\_glyphosate\\_ban\\_Monsanto.html#](http://www.naturalnews.com/042608_El_Salvador_glyphosate_ban_Monsanto.html#)

## **Sri Lanka bans leading Monsanto herbicide citing deadly disease fears**

Published by The International Consortium of Investigative Journalists, March 14, 2014

Excerpts:

*"An investigation carried out by medical specialists and scientists has revealed that kidney disease was mainly caused by glyphosate," Special Projects Minister S.M Chandrasena [told reporters](#) in Sri Lanka. "President Mahinda Rajapaksa has ordered the immediate removal of glyphosate from the local market soon after he was told of the contents of the report."*

Link: <https://www.icij.org/blog/2014/03/sri-lanka-bans-leading-monsanto-herbicide-citing-deadly-disease-fears>

## **France Bans the World's Leading Herbicide From Garden Stores**

Published by *Takepart*, June 15, 2015

Excerpts:

*"On Sunday, Ségolène Royal, the environment and energy minister, announced a plan to ban Roundup from all garden=store shelves in the country.*

*"The reason? The world's most popular weed killer contains glyphosate—a chemical the World Health Organization in March determined to be ["probably carcinogenic](#) to humans."*

*"France must be on the offensive with regards to the banning of pesticides," Royal said Sunday on French 3TV."*

Link: <http://www.takepart.com/article/2015/06/15/france-bans-herbicide>

## **On the Offensive' Against Monsanto, France Removes Roundup from Store Shelves**

Published by *Common Dreams*, June 15, 2015

Excerpts:

*"It's the newest development in the growing international [movement](#) against Monsanto in general and Roundup in particular. French Ecology Minister Segolene Royal [announced](#) on Sunday that she had instructed garden centers to stop putting the herbicide on the shelves of their self-service aisles, stating, "France must be on the offensive with regards to the banning of pesticides." "*

*Colombian officials made similar statements in May, when they put a [halt](#) to U.S.-backed toxic fumigation of coca fields in the country, noting that a previous ruling by the Colombian Supreme Court called for an end to the aerial spraying program if health concerns over glyphosate were discovered."*

Link: <http://www.commondreams.org/news/2015/06/15/offensive-against-monsanto-france-removes-roundup-store-shelves>

## **Dutch Ban Roundup, France and Brazil to Follow**

Published by The Healthy Home Economist,

Excerpts:

*"The dominoes are starting to fall.*

*The evidence damning glyphosate, the active ingredient in Roundup, the world's number one herbicide for weed control, has become too enormous to ignore.*

*While it won't kill you immediately as demonstrated by foolish Monsanto reps who have been known to drink Roundup in product demonstrations to convince unwitting farmers to use it, the long term effects to health are nothing short of devastating."*

Link: <http://www.thehealthyhomeeconomist.com/roundup-banned-netherlands-france-brazil-likely-soon-follow/>

## **5 Countries That are Throwing Monsanto Out on its Ass**

Published by Ultraculture

Excerpt:

*"The world may have had enough of [Monsanto](#), if the events of this month are anything to go by. We've just seen no less than five countries—South Africa, France, Chile, Brazil and Sri Lanka—either outright banning the sale of toxic weedkillers or GMO strains produced by the country, or demanding the company hold to truth in advertising standards."*

Link: <http://ultraculture.org/blog/2014/04/01/5-countries-throwing-monsanto-ass/>

## **The Netherlands Says "No" to Monsanto, Bans RoundUp Herbicide**

Published by Inhabitat, September 29, 2014

Excerpt:

*"The Netherlands is the latest country—after Russia, and Mexico—to say no to Monsanto. The Dutch Parliament recently decided that the sale of glyphosate-based herbicides to private parties will be prohibited as of late 2015. This means that people who spray RoundUp on their gardens and lawns will have to find another form of pest control: glyphosate is the main ingredient in RoundUp, and it has been directly linked to all manner of severe health issues, from bird defects and nervous system damage to kidney failure and various forms of cancer."*

Link: <http://inhabitat.com/the-netherlands-says-no-to-monsanto-bans-roundup-herbicide/>

### **3 More European Countries Begin Banning Glyphosate and Monsanto's Roundup** Published by ANTI MEDIA, June 24, 2015

Excerpt:

*"The chemical giant Monsanto has been garnering lots of necessary backlash for their glyphosate products lately. There's worldwide concern because Monsanto's glyphosate-containing herbicides are known to cause cancer in animals and have been labeled likely carcinogenic to humans. Monsanto representatives are feeling the pressure — and even asked the World Health Organization to retract their study which hinted at glyphosate being a human carcinogen."*

Link: <http://theantimedia.org/more-european-countries-banning-glyphosate-monsantos-roundup/>

### **GLyphosate (Round UP) is Banned in DENMARK and will be banned in Brazil and France**

Published by Lanka Newspapers,

Excerpts:

*"Monsanto's Secret Formula : Dangerous Chemicals in Glyphosate Herbicide Slip Past EU Regulators Due to Data Confidentiality*

*The only Europeans to ban glyphosate (the main active ingredient in Monsanto's herbicide roundUp) and its dangerous additions (surfactants) thus far are the Dutch, with Brazil and France to follow. Yet Germany, keeping their evidence of these toxic chemicals secret, pressures EU regulators to allow these unhealthy compounds to be sprayed liberally over the continent."*

*"A major qualitative difference between the effect of glyphosate and glyphosate formulations on aquatic and terrestrial organisms concerns the surfactant used in Roundup. The surfactant is much more toxic than glyphosate to aquatic organisms. Unlike glyphosate, the surfactant is more toxic in alkaline water than in acidic water. Thus, the relative potency of the surfactant with respect to glyphosate is pH dependent. There is relatively little information regarding the toxicity of Roundup Pro to aquatic species. Nonetheless, the acute lethal potencies of Roundup and Roundup Pro are similar."*

Link: [http://www.lankanewspapers.com/news/2014/9/89870\\_space.html](http://www.lankanewspapers.com/news/2014/9/89870_space.html)



## Section 5

### California classifies glyphosate as a “”

#### **California Classifies Glyphosate As Cancer-Causing, FDA Tests Crops For Residue**

Published by CBS SF Bay Area, July 7, 2017

Excerpts:

*“SAN FRANCISCO (CBS SF) — California added a controversial chemical found in the world’s most popular weedkiller to the list of chemicals known to the state to cause cancer, and the FDA is now testing U.S. crops for residues from that same chemical.*

*Glyphosate, a key ingredient in hundreds of products including Monsanto’s best-selling herbicide Roundup, was added to the state’s Prop 65 list on Friday. The list was created by The Safe Drinking Water and Toxic Enforcement Act of 1986 and includes hundreds of chemicals known to the state to cause cancer or reproductive toxicity.”*

Link: <http://sanfrancisco.cbslocal.com/2017/07/07/california-glyphosate-monsanto-cancer-causing-fda-crops/>

#### **Glyphosate causes cancer, rules California -- All California retailers are required to add cancer warning labels to all products containing glyphosate from July 7, 2017**

Published by Pgurus, July 15, 2017

Excerpts:

*“In a major setback to the multinational seed and chemical company, Monsanto, the US State of California declared glyphosate, the main ingredient in its weed killer Roundup, as a toxic cancer-causing chemical, effective July 7, 2017. This decision by the California Office of Environmental Health Hazard Assessment (OEHHA) is a triumph of environmentalists, farmers who have long fought losing battles with the giant corporations, consumer rights activists and health activists.*

*Declaring glyphosate as a known, cancer-causing carcinogen, the California Office of Environmental Health Hazard Assessment said it would be added to the state’s warning list under*



*the “The Safe Drinking Water and Toxic Enforcement Act of 1986,” also known as Proposition 65. This law protects California drinking water from toxic, cancer-causing substances and those known to cause birth defects.”*

Link: <https://www.pgurus.com/glyphosate-causes-cancer-california/>

## **Monsanto Is Suing California for Trying to Inform People That Roundup Causes Cancer**

Published by *Alternet*, March 2, 2016

Excerpts:

*“Once again, Monsanto is trying to take away our right to know, this time about carcinogenic chemicals used in household products and places all around us. In January, Monsanto filed a lawsuit against the state of California for its intent to list glyphosate, the main chemical used in Monsanto’s flagship Roundup herbicide, under California’s Proposition 65, a law that mandates notification and labeling of all chemicals known to cause cancer, birth defects or other reproductive harm, and prohibits their discharge into drinking waters of the state.*

*Enacted by California voters via ballot initiative in 1986, Prop 65 prohibits any business from knowingly or intentionally exposing any individual to a chemical known to the state to cause cancer or reproductive toxicity without first giving a clear and reasonable warning, and the discharge of such chemical into a source of drinking water is prohibited. The State relies on the findings of the International Agency for Research on Cancer (IARC) of the World Health Organization (WHO) — the world’s leading authority on cancer — as the basis for listing chemicals that are known or probable carcinogens under Prop 65. In 2015, IARC concluded, by a unanimous decision, that glyphosate is “probably carcinogenic.” “*

Link: <http://www.alternet.org/environment/monsanto-suing-california-trying-inform-people-roundup-causes-cancer>



Indeed, this is not a trivial issue.

With the knowledge contained in the last 46 pages, most people wouldn’t think of applying herbicides that contain glyphosate (Roundup etc.) because they would not be at peace with themselves knowing they may have planted the cancer seed in a forest visitor ... maybe a child.

Ask yourself how a Federal District Court judge would rule when the plaintiff introduces the information above and the USFS’s OGC attorney tries to refute it with information from the SERA report.