

The Unlikely Advocate

How and why I became an unlikely advocate for sustainable agriculture, and what I have learned since.

20 years of ever escalating "food" allergies had me running out of food that didn't tear up my gut. With no help from conventional sources, I started researching very specific and severe symptoms. This is when I stumbled on GMO studies that mirrored my own failing health.

A simple experiment of switching our staple foods to organic varieties showed immediate and dramatic results. Not changing our diet, just switching brands, healed 2 decades of ever more horrifying "allergies" in exactly FOUR days. Turns out, I can eat everything so long as it is free from these novel food technologies.

I started researching GMO simply to avoid the foods that caused these predictable and debilitating reactions. The results of avoiding GMO were so amazing and immediate, I was quite taken aback by my new found health and freedom and thought I can't be the only one.

Inquiries to Health Canada about possible allergens, proved to be entirely useless. Health Canada cited the Monsanto / FDA revolving door and directed me to sites that called concerned scientists and doctors "Anti-GMO campaigners".

When the "glass in my belly" symptoms returned, the only suspect was our brand name vitamin C. I contacted the pharmacy who was unable to trace the ingredients. The manufacturer stated that their vitamins were made from corn that was "untraceable". 90% of corn grown in North America today is GMO. I have since learned that many brand name vitamin C contain citric acid derived from a black mold made from GMO corn. Returning the GMO vitamins and replacing them with a non-GMO variety cleared up my tummy troubles immediately.

Years later, my symptoms returned once more with tear jerking vengeance after I consumed meat labeled "grass fed". The grocery chain butcher reassured me it was grass fed. Concerned my "allergies" were no longer controllable, I contacted the supplier to learn that their product was in fact (untraceable GMO?) soy & corn "grain finished" in a feed lot for the last 3 - 4 months prior to market.

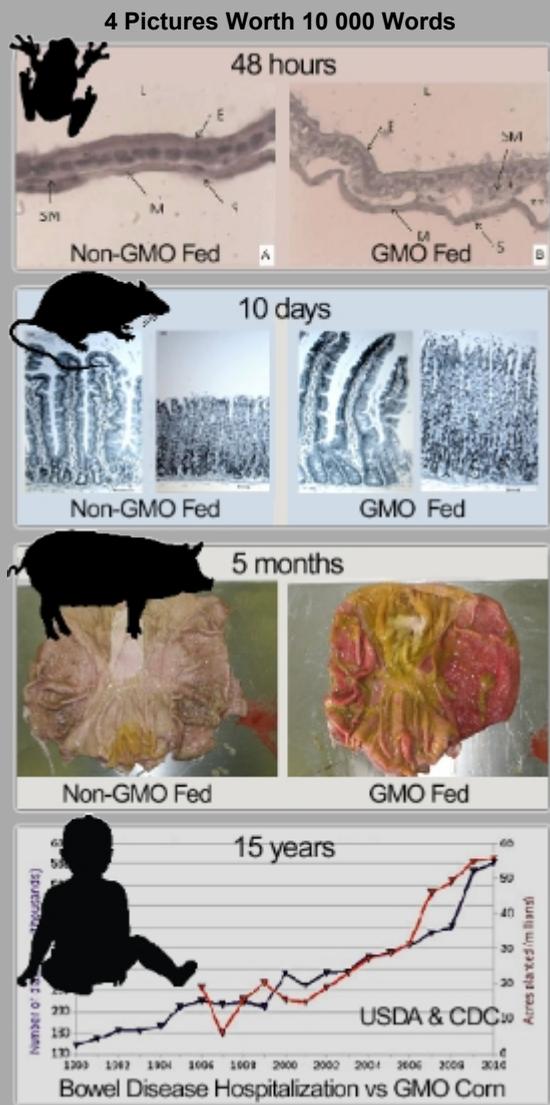
Every public inquiry was met with non answers or a flood of attacks and debunked industry talking points. This repeated behavior inspired me to scratch the surface. "The lady dost protest too much, me thinks." Researching the studies and groups provided by proponents always led to the profiteers of these synthetic chemical and GMO food technologies. All too often the studies and reports provided by patent-holders are found to be manipulated. (see details below)

Four years have now passed, and at 45, I have never been healthier or stronger in my adult life. Gleefully, I have not found one organic food that has hurt me. My question remains, "WHY?"

Like any good mystery, the questions spurred more investigating. I have since been researching and compiling "the most likely suspects", including independent GMO and synthetic chemical toxicology studies, statistics, lawsuits, bans, political and scientific corruption, failures, coverups and more.

Discovering numerous independent studies that mirror my own gut ripping responses to these Novel Foods spurred me to use the precautionary principal with regards to food. The basic principal used in regulating GMO of most of the developed world has best helped to restore and maintain my health.

Much of these technologies are banned in over 30 countries, labeled in another 64 based on the the "precautionary principal" policies, yet this protection is thrown out the window in Canada. Class action lawsuits are often paid out in the US for labelling GMO as "natural". Canada gutted the word "natural" to mean nothing. If these severe reactions were to express on the skin or airways like a peanut allergies and not in such a private matter, I am sure it's labelling would



GMO Diet vs Non-GMO Diet
see studies below OR see statistics below

be immediate.

GMOs expressing 6 different insecticides and live BT bacterium in the DNA of every plant cell is currently being regulated as "substantially equivalent" to naturally occurring plants with no independent safety testing in Canada. A recent govt audit exposed toxic chemicals can be left in Canada's stores for up to 11 years once exposed and banned.

Since "equivalency arguments" are proven false, no labelling, outdated regulations, cooked patent-holder data, no independent testing and no answers from our govt, the question remains; Why does GMO and synthetic chemical food technologies hurt me so terribly while the organic varieties of these exact same foods do not cause these gut ripping auto-immune responses? I gather we are not all #RoundupReady.

Based on the evidence I have collected with regards to safety, our health, economy, ecologically, politically and our laws, genetic engineering is not proven safe or equivalent and has failed at every promise. Today, more countries ban it than allow it and all developed countries label GMO except Canada and the US.

Literally the least that Health Canada can do to protect us is to label these failed novel GMO food technologies. With no labels, these proprietary, patented genetically engineered food technologies have no trace-ability, accountability and no liability for the undeniable harm listed below. As it stands, Canada's policies regarding our health and safety looks to more resemble gross negligence than any semblance of protection. How many people suffer due to politics?

Although the body of scientific evidence, lawsuits, statistics and list of bans grow every day, I am sharing the considerable data on GMO that I have unearthed in my quest for answers. I've compiled this collection into an easily navigated and readily accessible format below in hopes it may help others avoid the suffering I endured.

GMO Compilation - Directory

GMO Definitions	GMO Toxicology	Pesticides Toxicology	Politics vs Safety
GMO Corruption	GMO Farming	Bans & Labeling	Statistics

GMO Definitions

Definition - Organic certification definition - no synthetic pesticides - no GMOs
https://en.wikipedia.org/wiki/Organic_certification

Selective breeding vs. GMO
<http://www.mnn.com/food/healthy-eating/stories/genetic-engineering-vs-selective-breeding>

Organic definition Canada Inspection
<http://www.inspection.gc.ca/food/organic-products/fact-sheet/eng/1389651477171/1389651725636>

Health Canada - Genetically Modified (GM) Foods & Other Novel Foods
<http://www.hc-sc.gc.ca/fn-an/gmf-agm/appro/index-eng.php>

GMO Toxicology

GMO Toxicity - General	BT Toxicology	Gene Silencing Toxicology
Bovine G. H. Toxicology	SmartStax Toxicology	Antibiotic Markers

GMO Toxicity - General

- Studies - GMO animal feed, toxicity and allergens - international team led by Newcastle University has shown that organic crops are up to 69% higher in a number of key antioxidants than conventionally-grown crops. "
www.ncl.ac.uk/press/news/2015/10/organicvsnon-organicfood

- Composition differences between organic and conventional meat; a systematic literature review and meta-analysis

<http://gmwatch.org/news/latest-news/16718>

- Organic cows live at least twice as long 1/2 the vet bills as GMO fed cows Side by side GMO feed vs organic experiment

"We can now strongly reinforce the argument for organic transition, since we are able to present reasons why organic cows live ... twice as long as GMO fed cows - organic cow veterinary bills are approximately half .. of GMO fed cows."

<http://cerestrust.org/gmo-vs-organic-diet-effects-on-dairy-cows/>

- Scientists say new study shows pig health hurt by GMO feed

www.reuters.com/article/2013/06/11/us-gmo-pigs-study-idUSBRE95A14K20130611

- Pig health damage from GMO soy - "... ongoing use of a potentially harmful product (namely GM soy animal feed) has animal welfare implications, causes health problems that have to be addressed.. perhaps most important.. damages profitability.

<http://gmoaction.org/gm-soy-linked-to-health-damage-in-pigs-a-danish-dossier/>

Evidence of GMO harm in pig study

<http://gmojudycarman.org/new-study-shows-that-animals-are-seriously-harmed-by-gm-feed/>

- Research significant because pigs organs are similar to humans

www.dailymail.co.uk/news...GM-diet-lead-disease-pigs-Animals-develop-inflamed-stomachs-conditions-fed-Frankenstein-foods.html

- Sterility in Pigs fed GMO Report Video:

<https://vimeo.com/20237421>

- Pigs fed GMO study by Institute of Health and Environmental Research (IHER) and Verity Farms Conclusion Pigs fed a GMO diet exhibited heavier uteri and a higher rate of severe stomach.

PDF: www.organic-systems.org/journal/81/8106.pdf

- GMO feed turns pig stomachs to mush - Links to Study

www.naturalnews.com/040727_gmo_feed_severe_inflammation_pig_stomachs.html

- Study Found: "...pigs and cows fed on the rather common diet of GMO corn and soy have suffered digestive and reproductive disorders. This is of particular importance since the human digestive tract is very similar to that of pigs.

Institute of Health and Environmental Research - Pigs and cows fed on the rather common diet of GMO corn and soy have suffered digestive and reproductive disorders.. this mixture of GMO foods led to a toxic mix in the digestive tract of the animals, leading to a reduced ability for GMO-fed pigs to reproduce. The pigs were studied from conception until slaughter (the first long term study of its kind) and all were all affected adversely. Female pigs were found to have the following possible pathologies, measured through careful analysis and post-mortem examination:

- Endometrial hyperplasia - Carcinoma - Endometritis - Endometriosis - Adenomyosis - Inflammation - Thickening of the myometrium - Larger presence of polyps - Further, the uteri... fluid filled... The uteri ... were 25% larger than non-GMO fed pigs.- Inflammation.. stomach.. small intestine - Stomach ulcers - Stomach inflammation - Thinning of intestinal walls - Increase in hemorrhaging bowels (this causes the pigs to bleed to death from the bowels) & More... links to study:

www.nationofchange.org/first-long-term-study-released-pigs-cattle-who-eat-gmo-soy-and-corn-offers-frightening-results-13723

- Thirty-six percent of the pups from rats fed GM soya were severely stunted, some 5 to 6 times the percentage in the controls. By three weeks,... the death rate was 6 to 8 times the controls ... first generation (F1) from the feeding experiments ... were mated ... GM-fed F1 rats were completely sterile when mated with one another, whether they continued to be fed on GM soya or not.

http://www.i-sis.org.uk/GM_Soya_Fed_Rats.php

- Pregnant goats fed with genetically engineered (GE) soybeans have offspring who grow more slowly and are shorter, according to a new Italian study (Tudisco et al., 2015). Publishing in the journal of Small Ruminant Research, 2nd finding - low amounts of IgG antibodies. These antibodies are important for growth and for healthy immune (and gut) development. 3rd finding - transgene DNA (or non-transgenic DNA) has been found in the milk of ruminants... "It is already known that Roundup Ready soybeans have various defects including a Manganese deficiency. Yet regulators and GMO developers have continuously dismissed credible reports of GMO crops causing apparent harm to animals, from many different research groups." Said Dr Allison Wilson of The Bioscience Resource Project. "Hopefully they will not ignore yet another study."

www.sciencedirect.com/science/article/pii/S0921448815000528

www.independentsciencenews.org/commentaries/roundup-ready-2-soybeans/

- GMO corn causes gut and immune problems in mice - Study: Intestinal and Peripheral Immune Response to MON810 Maize Ingestion in Weaning and Old Mice .. gut and peripheral immune response to GM crop ingestion...

GMO safety evaluation..."

<http://pubs.acs.org/doi/abs/10.1021/jf802059w>

- Over 40 Rodent Feeding Studies Show Genetically Modified Food is Disastrous to Health

www.globalresearch.ca/over-40-rodent-feeding-studies-show-genetically-modified-food-is-disastrous-to-health/5481036

- Hub Noteborn, of the State Institute for Quality Control of Agricultural Products in Wageningen Superbugs' possible from genetically modified food Dutch scientists used a computer-controlled artificial gut to show that DNA remains intact for several minutes in the large intestine. "It was a surprise to see that DNA persisted so long in the colon."...

Previously some scientists have said there was no risk as the modified DNA breaks down too quickly... If the transferred genes were the antibiotic-resistance genes used as markers in some GM crops fed to livestock, then serious health risks might result ...

The danger would be that antibiotic-resistant microbes would spread from animals to humans. BBC News '

<http://news.bbc.co.uk/2/hi/sci/tech/264119.stm>

- Study - GMO feed tears up farmed fish salmon guts

From Chronic Feed-Induced Intestinal Inflammation to Adenocarcinoma with Metastases in Salmonid Fish

photo <http://cancerres.aacrjournals.org/content/69/10/4355/F1.large.jpg>

study: <http://cancerres.aacrjournals.org/content/69/10/4355.full>

- Study: New Analysis of a Rat Feeding Study with a Genetically Modified Maize Reveals Signs of Hepatorenal Toxicity PDF

www.rapaluruquay.org/transgenicos/Maiz/Genetically_Maize.pdf

- horizontal gene transfer from a diet containing genetically modified components into rat tissues GMO DNA Transfers to Non Target Species and Cells - The total frequencies of transfer of the GM-target sequences .. from the GM-diet in... blood, liver and brain tissues... GM-diet increased from 33.3... 52.8% after 90 days of the GM-diet.

www.academicjournals.org/journal/AJB/article-full-text/BE5331948800

- Horizontal Transfer of Microbial Transgenes Present in Genetically Modified Crops - Health Considerations "...

Other factors that are important for transformation with DNA are the natural or induced competence of the recipient microorganisms, such as the natural competence of Campylobacter species. Some microorganisms, such as Salmonella typhimurium, have mismatch repair systems that form a barrier for recombination between even highly similar sequences (eg, reviewed for Salmonella by [13]). Some bacteria can develop natural/chemical competence under certain environmental conditions

www.ncbi.nlm.nih.gov/pmc/articles/PMC1364539/

- GMO Salmon: ISA virus confirmed in AquaBounty's genetically-engineered salmon

www.livingoceans.org/media/releases/isa-virus-confirmed-aquabounty-s-genetically-engineered-salmon

- Eating GM food can change the genetic make-up of your digestive system ...risk of infections .. resistant to antibiotics.. British study has revealed that volunteers who ate one meal containing genetically modified soya had traces of the modified DNA in bacteria in their small intestines ... Scientists now fear that GM foods, which are often modified to be resistant to antibiotics, will leave Britons vulnerable to untreatable illnesses.

www.dailymail.co.uk/health/article-128312/Can-GM-food-cause-immunity-antibiotics.html

- Spread of antibiotic resistance.. from gene transfer from GM crops.. Joe Cummins, Ph.D., professor emeritus of genetics at the University of Western Ontario, Canada. "I have found that the antibiotics used in GM crops are used in surgery and to treat a number of diseases."

www.organicconsumers.org/old_articles/ge/genemarker.php

-The Untold Dangers of Leaky Gut - What Exactly Causes Leaky Gut? - Gluten Dairy Sugar GMOs Gluten

<http://rihealthclub.com/the-untold-dangers-of-leaky-gut>

- 10 IRREFUTABLE evidence that GMO can harm you

www.seattleorganicrestaurants.com/vegan-whole-foods/gmo-harms-dangers/

- Worldwide, nearly 300 scientists signed on to a statement citing - serious safety concerns with GMOs

www.ensser.org/fileadmin/user_upload/signatories_as_of_131210_lv.pdf

- Seralini GMO Study Republished - Vindicated for the damaging effects of GMO.

www.examiner.com/article/s-ralini-study-on-toxic-effects-of-gmos-and-glyphosate-republished

- Republished study: long-term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize Environmental Sciences Europe:

<http://enveurope.springeropen.com/articles/10.1186/s12302-014-0014-5>

- The Health Dangers of Soy

www.huffingtonpost.com/dr-mercola/soy-health_b_1822466.html

- Majority of Doctors Favour GMO Labeling

<http://robbynobrien.com/a-majority-of-doctors-favor-gmo-labeling/>

- American Academy of Environmental Medicine (AAEM) called on "Physicians to educate their patients, the medical community, and the public to avoid GM (genetically modified) foods when possible and provide educational materials concerning GM foods and health risks."... They called for a moratorium on GM foods, long-term independent studies, and labeling. AAEM's position paper stated, "Several animal studies indicate serious health risks associated with GM food," including infertility, immune problems, accelerated aging, insulin regulation, and changes in major organs and the gastrointestinal system. ...

"There is more than a casual association between GM foods and adverse health effects. There is causation," as defined by recognized scientific criteria. "The strength of association and consistency between GM foods and disease is confirmed in several animal studies."

www.aaemonline.org/gmo.php

-The Arizona Center for Advanced Medicine - With the precautionary principle in mind, because GM foods have not been properly tested for human consumption, and because there is ample evidence of probable harm, the AAEM asks: Physicians call for: educate public / patients / doctors... investigate health risks... disease processes... conduct safe methods of determining the effect of GM foods on... health

- Call For a moratorium on GM food,..immediate long term independent safety testing ... labeling of GM foods ... necessary for the health and safety of consumers. This statement was reviewed and approved by the Executive Committee of the American Academy of Environmental Medicine on May 8, 2009.

A White Paper by the American Academy of Environmental Medicine

<http://arizonaadvancedmedicine.com/genetically-modified-foods/>

- Genetically Engineered Food Alters Our Digestive Systems

www.anh-usa.org/genetically-engineered-food-alters-our-digestive-systems/

- Human Health Risks GMO Myths and Truths, An evidence-based examination ... safety and efficacy of GM crops Report is 331 pages contains over 600 citations, many of them from the peer-reviewed scientific literature and the rest from reports by scientists, physicians, government bodies, industry, and the media.

- GMO Myths and Truths, a synthesis of 600 scientific studies carried out by three geneticists, and published in 2012: <http://earthopensource.org/index.php/reports/58>

- GMOs linked to gluten disorders plaguing 18 million Americans

<http://rt.com/usa/gmo-gluten-sensitivity-trigger-343/>

- Are Genetically Engineered Foods Leading to Gluten Sensitivity? -
References 30:

www.totalhealthmagazine.com/GMOs/Are-Genetically-Engineered-Foods-Leading-to-Gluten-Sensitivity.html

- GMO Soy Toxicology - FDA Poisonous Plant Database - March 2006 Revision - This database contains references to the scientific literature describing studies of the toxic properties and effects of plants and plant parts.

www.westonaprice.org/images/pdfs/fdasoyreferences.pdf

- Compilations of GMO soy toxicology

www.westonaprice.org/soy-alert/studies-showing-adverse-effects-of-soy

- Assessing the survival of transgenic plant DNA in the human gastrointestinal tract.

GMO Studies: Control, showing no histopathological changes ... GM, showing hyperplasia and hyperactivation of mucous secretory glands

http://www.academia.edu/Histopathological_Changes_in_Some_Organs_of_Male_Rats_Fed_on_Genetically_Modified_Corn...

- GMO Study: Conclusion The results of this study showed several changes in organs/body weight and serum biochemistry in the rats fed on GM corn ... findings indicate ;potential adverse health/toxic effects of GM corn .. further investigations .. needed

http://www.academia.edu/Morphological_and_Biochemical_Changes_in_Male_Rats_Fed_on_Genetically_Modified_Corn...

- Since the introduction of GMO - Autism Rates Skyrocket - "...nine out of 10 individuals with the condition (Autism) also suffer from gastrointestinal problems such as inflammatory bowel disease and "leaky gut." ... The latter condition occurs when the intestines become excessively permeable and leak their contents into the bloodstream

www.scientificamerican.com/article/gut-bacteria-may-play-a-role-in-autism/

- Physicians and Scientists for Responsible Application of Science and Technology

All genetically engineered crops contain bacterial DNA. This DNA contains a genetic element (the so called "CpG motif") that stimulates the immune system to start a sequence of reactions leading to inflammation.

Exposure to these genetic elements may lead to promotion of inflammation, arthritis and lymphoma (a malignant blood disease)... DNA is not broken down in the gastrointestinal tract to the extent formerly believed.

Ingested DNA sequences large enough to contain whole genes have remained intact and entered the blood and tissues. This means that eating GE foods may increase the risk of said disorders. Professor Cummins concludes:

"The available evidence is sufficient to support a moratorium on the massive intake of GM crops by human populations until the genetic consequences are resolved in the laboratory."

Industry said GMO and synthetic chemicals broke down in the gut. These assumption are the foundation of our lack of independent safety testing. The "Equivalency Argument" re. GMO is built on false pretense.

- PLOS GMO Study - Complete Genes May Pass from Food to Human Blood -

The analysis of all the publicly available circulating cell-free DNA sequencing data of over 1000 human subjects confirms our hypothesis that the presence of foreign DNA in human plasma is not unusual. It shows large variation from subject to subject following strikingly well a log-normal distribution with the highest concentration in patients with inflammation (Kawasaki disease, IBD). These findings could lead to a revision of our view of degradation and absorption mechanisms of nucleic acids in the human body.

Equivalency Argument to Avoid Safety Test is False - Complete Genes May Pass from Food to Human Blood - <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0069805>

- Doctors prescribing GM-free diets. Dr. Amy Dean, a Michigan internal medicine specialist, and board member of AAEM says, "I strongly recommend patients eat strictly non-genetically modified foods." - Ohio allergist Dr. John Boyles says "I used to test for soy allergies all the time, but now that soy is genetically engineered, it is so dangerous that I tell people never to eat it." Emily Linder, MD. "The first thing she did" says LaDonna, "was take me off GMOs" including soy, corn, canola oil, and sugar. "Within two months" she says, "I didn't need the medication any longer."

www.rense.com/general86/doct.htm

- Chronic Fatigue - Cornell University researchers report they have identified biological markers of the disease in gut bacteria and inflammatory microbial agents in the blood. Overall, the diversity of types of bacteria was greatly reduced and there were fewer bacterial species known to be anti-inflammatory in ME/CFS patients compared with healthy people, an observation also seen in people with Crohn's disease and ulcerative colitis.

<http://mediarelations.cornell.edu/2016/06/27/3770/>

- Possible Links between Intestinal Permeability and Food Processing ... examples linked to protein or lipid glycation induced by modern food processing ... aims to increase physician awareness of this common, albeit largely unrecognized, pathology, which may be easily prevented or improved by means of simple nutritional changes.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2898551/>

- Functional studies *in vitro* and *in vivo* demonstrated that MIR168a could bind to the human/mouse low-density lipoprotein receptor adapter protein 1 (LDLRAP1) mRNA, inhibit LDLRAP1 expression in liver, and consequently decrease LDL removal from mouse plasma. These findings demonstrate that exogenous plant miRNAs in food can regulate the expression of target genes in mammals.

<http://www.nature.com/cr/journal/v22/n1/full/cr2011158a.html>

- The present review outlines some of the potential mechanisms associated with the development of NAFLD and fructose intake with a particular focus on the role of the intestinal barrier functions.

<http://www.ncbi.nlm.nih.gov/pubmed/19679262>

- GMO Science and Research - Compilation of 2029 independent research results and independent studies on GMO and synthetic chemical pesticides and herbicides

www.gmofreeusa.org/research/gmo-science-research/gmo-science-research-0001-0500/

- #NotRoundupReady Epidemiological surveys - rates of birth defects and malformations in children, cancer, and miscarriages one hundred times higher than the national average, coinciding with the increase of GM soy cultivation and herbicide spraying near populated areas

https://www.loc.gov/law/help/restrictions-on-gmos/argentina.php#_ftn11

- Scientist Extends Multi-Million Dollar Challenge To Monsanto To Prove GMO Safety To collect on the challenge, Shiva Ayyadurai wants Monsanto to prove that they have adequate safety standards for GMO crops.

www.mintpressnews.com/scientist-extends-multi-million-dollar-challenge-to-monsanto-to-prove-gmo-safety/211187

BT GMO Toxicology

Bt toxin in GM plants is not the same as natural Bt toxin - Industry said it broke down in the gut, just like they said about glyphosate. This too has been proven to be false.

- Organic and GMO Bt use:

www.gmoEvidence.com/dr-mezzomo-bt-toxins-toxic-to-blood-of-mice/

- Live BT built into every cell of GMO vs dead BT occasionally sprayed on crops:

www.greenmedinfo.com/blog/new-study-proves-bt-toxins-gmos-toxic-mammalian-blood

- GM DNA Does Jump Species - Antibiotic Resistance not the Only Risk - The gastrointestinal tract is a hotspot for

horizontal (gmo) gene transfer - Misleading experiment cited by EFSA and other regulatory bodies
www.i-sis.org.uk/GMDNA_Does_Jump_Species.php

- Bt Bacteria Proteins Toxic to Mouse Blood and Human Cells
www.responsibletechnology.org/posts/bt-bacteria-proteins/

- Bt Toxins Lethal to Amphibians "... sub-lethal concentrations induced genotoxic effects, intestinal histopathology and also abnormal activity of enzymes protective against oxidative stress. At the highest concentration tested, the formulation caused 100 % lethality, making it the first study to report lethality following Bti exposure in amphibians.."

(Gut Ripping Explained?) Bti induced infiltration of the connective tissue underlying the epithelium and dilation of the blood vessels. Both symptoms are associated with immune defense mechanisms of the organisms against a stressor

(Figure 2) *Light micrographs of the intestinal wall of the common South American frog tadpole stained with Hematoxylin-Eosin.."*

www.i-sis.org.uk/Commercial_Formulations_of_Bt_Toxins_Lethal_to_Amphibians.php

- Cytotoxicity on human cells of Cry1Ab and Cry1Ac Bt insecticidal toxins alone or with a glyphosate-based herbicide. www.ncbi.nlm.nih.gov/pubmed/22337346

-The Journal of Toxicology published a study in 2012 that proved BT toxin pokes holes in the human intestinal tracts and causes intestinal permeability.

<http://nourishingplot.com/2014/02/11/foods-act-as-pesticides-within-leaky-gut-patients/>

- BT "Smart Stacked" (see below) GMO is the largest growing novel foods technology. Farmers have traditionally used Bt toxin from soil bacteria as a natural pesticide. Biotech companies have therefore claimed that Bt toxin has a "history of safe use in agriculture. "There's a huge difference between spraying it on plants, where it biodegrades in sunlight and can be carefully washed off, and genetically altering the plant to produce it internally" where it can express up to 1000x naturally occurring levels. http://www.huffingtonpost.com/dr-mercola/bt-com_b_2442072.html

- Sherbrooke University Hospital studied patients and found 93% of pregnant women had BT toxin in their bloodstream and in the cord blood as well as the fetus. They found BT toxin in 2/3 of the non-pregnant women. www.dailymail.co.uk/health/article-1388888/GM-food-toxins-blood-93-unborn-babies.html

- Maternal and fetal exposure to pesticides associated to genetically modified foods in Eastern Townships of Quebec, Canada. "...evaluate the correlation between maternal and fetal exposure, and to determine exposure levels of GLYP and its metabolite aminomethyl phosphoric acid (AMPA), GLUF and its metabolite ... (3-MPPA) and .. (a Bt toxin) .."

www.ncbi.nlm.nih.gov/pubmed/21338670

- GMO feeding studies in mammals have been performed with GM Bt crops and have found adverse effects, such as:

Toxic effects or signs of toxicity in the small intestine, liver, kidney, spleen, pancreas -- Disturbances in the functioning of the digestive system Increased or decreased weight gain compared with controls -- Male reproductive organ damage -- Blood biochemistry disturbances - Immune system disturbances - The problem with this is that the protein that is expressed in a plant will be different in structure, conformation and stability from the protein expressed in a bacterium.

Thus it is scientifically invalid to draw conclusions about the safety or digestibility of a protein in a GM plant on the basis of experiments on a protein produced in E. colibacteria, even if the two proteins are coded for by the same gene.

<http://earthopensource.org...3-8-myth-gm-bt-insecticidal-crops-harm-insects-harmless-animals-people/>

- Human health impact of Bacillus thuringiensis toxin gene product in genetically modified crops
www.i-sis.org.uk/Bt-toxin.php

- NEW STUDY: Genetically Modified Corn Toxic to Humans Study published last week in the peer-reviewed Journal of Applied Toxicology revealed that genetically modified corn containing the genes for Bt (Bacillus thuringiensis) is toxic to humans www.safelawns.org/blog/2012/02/new-study-genetically-modified-corn-toxic-to-humans/

- BT GMO - Known to Kill Cows, Castrate Wildlife, Induce Spontaneous Abortion in Lab Rats ... And it's Likely in Your Water

<http://articles.mercola.com/sites/articles/archive/2012/07/19/gmo-corn-resulting-livestock-deaths.aspx>

- Bt Bacteria Proteins Toxic to Mouse Blood and Human Cells In government-sponsored research in Italy, mice fed Monsanto's Bt corn ... elevated IgE and IgG antibodies... associated with allergies and infections... increase in cytokines... associated with "allergic.. inflammatory responses... specific cytokines (interleukins) ... also higher in humans who suffer from Rheumatoid arthritis, inflammatory bowel disease, osteoporosis, multiple sclerosis, various types of cancer (multiple myeloma and prostate cancer). Allergy, allergic rhinitis, ALS (Lou Gehrig's disease) Autoimmune disease and colitis Inflammatory bowel disease, multiple sclerosis

www.responsibletechnology.org/posts/bt-bacteria-proteins/

- First Commercial Bt-Maize was Toxic, Scientist and Farmer Confirm New Study: First Commercialized GM Crop

Was Toxic to Farm Animals over Long-Term

www.gmoseralini.org/new-study-first-commercialized-gm-crop-was-toxic-to-farm-animals-over-long-term/

- Bt crops have the Bt toxin gene built in, so the toxin cannot be washed off ... the plant-produced version of the poison is thousands of times more concentrated than the spray.

http://action.responsibletechnology.org/o/6236/t/0/blastContent.jsp?email_blast_KEY=1165644

- peer-reviewed studies showing that natural Bt toxin from soil bacteria is not a safe pesticide either: natural Bt toxin was

fed to mice, they had tissue damage, immune responses as powerful as cholera toxin, and even started reacting to other foods that were formerly harmless. ... farm workers exposed to Bt also showed immune responses.

www.ncbi.nlm.nih.gov/pubmed/21338670

- EPA's Bt Plant-Pesticides Risk and Benefits Assessment, created by their expert Scientific Advisory Panel, states that "Bt proteins could act as antigenic and allergenic sources."

www.huffingtonpost.com/dr-mercola/bt-corn_b_2442072.html

- Study Results of BT GMO Toxins Inadequate - Research Report

Research report Ecological and experimental constraints for field trials to study potential effects of transgenic Bt-crops on non-target insects and spiders .. "In view of the results of this research project, adjustment of the guidance document before giving them the force of law seems necessary."

<http://www.cogem.net/index.cfm/en/publications/publicatie/research-report-ecological-and-experimental-constraints-for-field-trials-to-study-potential-effects-of-transgenic-bt-crops-on-non-target-insects-and-spiders>

- BT GMO Known to Kill Cows, Castrate Wildlife, Induce Spontaneous Abortion in Lab Rats... And it's Likely in Your Water <http://articles.mercola.com/sites/articles/archive/2012/07/19/gmo-corn-resulting-livestock-deaths.aspx>

- Regulatory assessment of Bt crops flawed EPA registers Bt crops without adequately assessing this potential impact. - See more at:

<http://gmo-journal.com/2009/10/20/epas-flawed-regulation-of-gmos-examined/#sthash.9vEVedEw.dpuf>

- Hundreds to Thousands of Mutations - Study: The Mutational Consequences of Plant Transformation -

<http://bit.ly/MutationConsequencePlantTransform2006>

Gene Silencing Toxicology

- EPA, Monsanto ignore health risks of RNA interference technology

http://www.earthisland.org/journal/index.php/elist/eListRead/a_very_different_kind_of_gmo/

- Risk assessment - The risks of double-stranded RNA have not been systematically evaluated by any regulatory agency we know of, and there are no standard safety testing procedures.

<http://theconversation.com/securing-the-safety-of-genetic-modification-13102>

- No safety Research - RNA was found to alter gene expression in mouse livers Double stranded RNA could also alter gene expression in human tissue culture cells. There has therefore been no research into the safety of these molecules. In short, regulators avoid assessing potential safety issues by saying there were no risks to start with ..."

www.sciencedirect.com/science/article/pii/S0160412013000494

- Gene silencing = toxic: DsRNA genetic modification has large implications on safety based on what is already known (see below):

DsRNA is stable, it resists digestion and may enter the bloodstream; its role in modifying gene expression is universal and acts across kingdoms; toxicity to animals have been amply demonstrated and exploited in targeting pests;... many off-target effects have been identified ... plant dsRNA ... found circulating in the human bloodstream ... taken up into cells and tissues to interfere with the expression of genes. Consequently ... eating the GM food containing dsRNA could well be harmed. Dr Mae-Wan Ho

www.i-sis.org.uk/New_GM_nightmares_with_RNA.php

- The dose can make the poison: lessons learned from adverse in vivo toxicities caused by RNAi overexpression

www.silencejournal.com/content/2/1/8

- Off-target effects by siRNA can induce toxic phenotype -US National Library of Medicine National Institutes of Health www.ncbi.nlm.nih.gov/pmc/articles/PMC1484448/

- Researchers at the Rowett Institute in Aberdeen showing the harm of gene silencing GMO was relentlessly attacked, demonized and gagged despite "To this day they have never found anything fundamentally wrong with his research, and none of them have ever sought to repeat it" Follow up studies showing the same toxic results from gene silencing gmo confirm his findings:

... Flavr Savr GM tomato had shown (10) that when it was fed to rats some of them developed "gross lesions" or "gastric erosions" in their stomachs. These have been described as "pinprick bleedings" and linked to cellular

changes which clearly needed to be explained.

<http://www.gmfrecymru.org/documents/pusztai-fifteen-years-too-late.html>

- The validity of the (GMO potato) work was also confirmed by an independent team of 23 top scientists from around the world who reviewed the research, as well as The Lancet, that published it. ... "scientists from 13 countries state that their independent examination of all the published data shows that Dr Pusztai ... should never have been attacked..."

<http://www.theguardian.com/environment/1999/feb/12/food.gm>

- Short interfering RNAs can induce unexpected and divergent changes in the levels of untargeted proteins in mammalian cells Communicated by Bert Vogelstein, The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, www.pnas.org/content/101/7/1892.long

- Untested, Inherently Risky' GMO Apple - No Studies

www.popularresistance.org/usda-approves-untested-inherently-risky-gmo-apple/

- The mucosal thickness of the stomach was greater after feeding diets containing GNA (irrespective of whether GNA was added to parental line potatoes, or GNA was expressed in GM-potatoes) than after diets without GNA. in Nutrition and Health that analyzed all peer-reviewed feeding studies on GM foods Department of Biochemistry and Molecular Biology, University of Bergen, Bergen, Norway **Oplysning om Genteknologi, Hvidehusvej 5, DK-3450 Allerød, Denmark

2003 paper (PDF)

http://www.huffingtonpost.com/jeffrey-smith/biotech-propaganda-cooks_b_675957.html

- A comparative evaluation of the regulation of GM crops or products containing dsRNA... suggested improvements to risk assessments ... evidence for miRNAs of plant origin in the circulatory system or organs of humans or mammals

<http://www.sciencedirect.com/science/article/pii/S0160412013000494>

- Royal Society of Canada issued an extensive report declaring that it is "scientifically unjustifiable" to presume that GM foods are safe ... nearly 300 scientists and experts signed a statement rejecting claims of a scientific consensus on GMO safety, either for human or animal consumption or for the environment.

<http://earthopenresource.org/gmomythsandtruths/sample-page/2-science-regulation/2-1-myth-gm-foods-strictly-tested-regulated-safety/>

- GMO potato bans - <http://www.cban.ca/Resources/Topics/GE-Crops-and-Foods-Not-on-the-Market/Potato>

Also see **GMO Corruption** for more information on the attack on Gene Silencing scientists.

Bovine Growth Hormone Toxicology

BGH is banned in Canada thanks to the important govt study by Dr. Shiv Chopra showing the toxic effects of BGH. The collection of BGH studies listed here are in turn sparse. Technically, Only local whole dairy products are rBGH free in Canada. Imported processed dairy products may contain Bovine Growth Hormones.

- Canada Parliamentary Research Branch "It is very likely that products such as cheese and yogurt made from milk produced by rbST-treated cows have been imported into Canada... according to the CFIA, there is no means of identifying these products.

<http://publications.gc.ca/collections/Collection-R/LoPBdP/BP/prb981-e.htm>

- Inadequate BGH studies - Canadian govt - "The usually required long-term toxicology studies to ascertain human safety were not conducted. Hence, such possibilities and potential as sterility, infertility, birth defects, cancer, and immunological derangements were not addressed." ... in Canada, "Both procedural and data gaps were found which fail to properly address the human safety requirements of this drug under the Food and Drugs Act and Regulations."... US approval process for this drug was equally flawed.

... Two of the report's authors, and four other Canadian government scientists, testified that they have been threatened with transfers to other jobs where "they would never be heard of again" if they did not speed up approval of Monsanto's rBGH product in Canada, despite the absence of long-term data showing the product is safe for humans... The Canadian scientists have been forbidden to speak to the press about their concerns, but they testified last month before a government board of inquiry..."

<http://www.greens.org/s-r/18/18-08.html>

- Dr. Shiv Chopra - a former employee of Health Canada (the Canadian equivalent of the US FDA) for 35 years... Corrupt to the Core ... chronicles his many decades fighting for scientific principles against profit-hungry corporations and ultimately against his own bosses and the Canadian government itself.

<http://articles.mercola.com/sites/articles/archive/2011/05/14/dr-shiv-chopra-on-corrupt-to-the-core.aspx>

-The available evidence shows that the use of rBGH can cause adverse health effects in cows. The evidence for

potential harm to humans is inconclusive. It is not clear that drinking milk produced using rBGH significantly increases IGF-1 levels in humans or adds to the risk of developing cancer. More research is needed to help better address these concerns.

The increased use of antibiotics to treat rBGH-induced mastitis does promote the development of antibiotic-resistant bacteria, but the extent to which these are transmitted to humans is unclear...

<http://www.cancer.org/cancer/cancercauses/othercarcinogens/athome/recombinant-bovine-growth-hormone>

- .Center for Food Safety .. cows treated with rbGH, significant health problems often develop, including a 50% increase in the risk of lameness (leg and hoof problems), over a 25% increase in the frequency of udder infections (mastitis), and serious animal reproductive problems, such as infertility, cystic ovaries, fetal loss and birth defects. (RBGH) dairy farmers tend to use more antibiotics... may end up in milk and dairy products... can cause allergic reactions... contribute to the growth of antibiotic resistant bacteria,...

... levels of a hormone called "insulin-like growth factor-1" (IGF-1) are elevated in dairy products produced from cows treated with rbGH. Canadian and European regulators have found that the FDA completely failed to consider a study that showed how the increased IGF-1 in rBGH milk could survive digestion and make its way into the intestines and blood stream of consumers. These findings are significant because numerous studies now demonstrate that IGF-1 is an important factor in the growth of cancers of the breast, prostate and colon.

<http://www.centerforfoodsafety.org/issues/1044/rbgh/about-rbgh#>

-(Bovine Growth Hormone) IGF-1 has been linked to insulin disruption, cancer and alterations in puberty.

www.jci.org/articles/view/41069

- Bovine Growth Hormone - cows given rBGH, like genetically altered salmon, also have higher levels of IGF-1.

<http://gmwatch.org/news/archive/2010/12469-higher-levels-of-igf-1-in-gm-salmon>

- Cows injected with rBGH contains high levels of Insulin Growth Factor- A Canadian study found that rBGH significantly increased the risks of mastitis, failure to conceive, and lameness in cows. As a result, rBGH is banned in Canada and Europe.

www.non-gmoreport.com/articles/sept07/rBGH-free.php

-The hormone IGF-1: A trigger of puberty

www.sciencedaily.com/releases/2010/07/100712121826.htm

- reports, bans, studies, politics etc on BGH:

https://en.wikipedia.org/wiki/Bovine_somatotropin

SmartStax GMO Toxicology

Newest and quickest growing GMO. This Novel Food expresses multiple herbicides, insecticides and live bacterium in every cell of its DNA.

- SmartStax Maize a Medley of Transgenes with Problems

No case for releasing a poorly characterized GM crop with a medley of transgenes for which detrimental effects have been indicated in the limited cases where feeding trials have been carried out Prof. Joe Cummins

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

- SmartStax" Eight-Trait GM Corn - Engineered to Tolerate 2,4-D and Glyphosate (see 2,4-D Toxicology and Glyphosate Toxicology below)

"The GM SmartStax corn produces six different insecticidal toxins and is tolerant to two herbicides. It was allowed onto the market in Canada without a safety evaluation from Health Canada."

www.cban.ca/Resources/Topics/GE-Crops-and-Foods-On-the-Market/Corn

- New multi-stacked novel food technologies not substantially equivalent. Avoiding bothersome regulation

- Not just a legal question - unintended consequences

<http://beyond-gm.org/gmo-or-gm-no-how-will-the-eu-regulate-new-plant-breeding-technologies/>

- SmartStax released with inadequate, bias and "systematic fraud"

The dossiers from industry should be completely rejected for being wrongly designed, their lack of scientific standards and the lack of independent quality control. There are even indications of systematic fraud. The application and the opinion of EFSA should be rejected to ensure the high standards of consumer protection as foreseen by European regulations. The dossiers not only have major deficiencies, they also have to be interpreted as an attempt to deliberately undermine the risk assessment of genetically engineered plants. They harm the interests of consumers, farmers, food producers and retailers. The risks relevant for consumers were not properly examined.

<http://www.testbiotech.de/en/node/515>

-Scientists in Australia fed a mixture of genetically engineered maize to pigs and found it had significant effects on their health. The feed used in the Australian trial had a similar mixture of residues from spraying with herbicides and insecticidal toxins as SmartStax...

According to data from industry, the content of the insecticidal toxins produced by SmartStax is highly variable and can add up to quite high levels. The data presented on SmartStax so far suffer from flawed methodology, therefore making it impossible to know the true concentration of toxins. The research showing the impact on human cells was supported by Testbiotech, and was published online for the first time in 2012. It was not taken into account in the risk assessment of SmartStax.

<https://www.testbiotech.org/en/node/830>

- How industry and EFSA have been systematically undermining the risk assessment of 'SmartStax' "... ensured that the data were consistent with expectations."

<http://www.testbiotech.de/en/node/515>

- Smart Stax Crops Engineered to tolerate 2,4-D, Glyphosate and express live BT toxins in every cell of the GMO plant.
(see 2,4-D Toxicology and Glyphosate Toxicology Studies below)

- Write the Minister of Health: Stop GM 2,4-D Tolerant Crops

www.cban.ca/Resources/Topics/GE-Crops-and-Foods-On-the-Market/Corn/Write-the-Minister-of-Health-Stop-GM-2-4-D-Tolerant-Crops

Antibiotic Markers - Antibiotic Resistance

- Horizontal gene transfer is the primary reason for the spread of antibiotic resistance in bacteria and plays an important role in the evolution of bacteria that can degrade novel compounds such as human-created pesticides and in the evolution, maintenance, and transmission of virulence. This horizontal gene transfer often involves temperate bacteriophages and plasmids. Genes that are responsible for antibiotic resistance in one species of bacteria can be transferred to another species of bacteria through various mechanisms (e.g., via F-pilus), subsequently arming the antibiotic resistant genes' recipient against antibiotics, which is becoming a medical challenge to deal with. https://en.wikipedia.org/wiki/Horizontal_gene_transfer

- Unnecessary Use of Antibiotic Marker Gene - Antibiotic resistance is serious public health challenge Antibiotic resistance is a serious challenge to public health. Widespread use of antibiotics has resulted in the selection of antibiotic-resistant strains. Horizontal gene transfer from another organism is one mechanism by which antibiotic resistance can be established

... It is a possibility, and risk, that gut bacteria pick up the antibiotic resistance marker gene via horizontal gene transfer, which ultimately could lead to antibiotic resistant disease-causing bacteria in the gut. For example, one study detected DNA from Bt corn in the digestive tract of sheep.

<http://www.cban.ca> - Comments to CFIA on GM apple from CBAN July 3 2012.pdf

Rising antibiotic resistance in our food chain:

<http://www.ncbi.nlm.nih.gov/books/NBK114485/>

- "The spread of antibiotic resistance is the main threat from gene transfer from GM crops," said Joe Cummins, Ph.D., professor emeritus of genetics at the University of Western Ontario, Canada. "I have found that the antibiotics used in GM crops are used in surgery and to treat a number of diseases ... They could become antibiotic resistant ... and this could produce diseases that can't be controlled by antibiotics."

https://www.organicconsumers.org/old_articles/ge/genemarker.php

- University of Newcastle study "has revealed that volunteers who ate one meal containing genetically modified soya had traces of the modified DNA in bacteria in their small intestines. Scientists now fear that GM foods, which are often modified to be resistant to antibiotics, will leave Britons vulnerable to untreatable illnesses. ... This is the first time this transfer has been identified in humans. Research leader Professor Harry Gilbert played down the dangers, but confirmed that 'surprising' levels of GM DNA transfer were found..."

<http://www.dailymail.co.uk/health/article-128312/Can-GM-food-cause-immunity-antibiotics.html>

- New Study Shows Roundup Herbicide Causes Antibiotic Resistance in Bacteria

<http://sustainablepulse.com/2015/03/24/new-study-shows-roundup-herbicide-causes-antibiotic-resistance-in-bacteria/>

- Common pesticides linked to antibiotic resistance - People exposed to herbicides require more antibiotics to kill bacteria, according to new research published in mBio ... the peer-reviewed journal of the American Society for Microbiology, which found that if someone is exposed to both herbicides and antibiotics at the same time, higher doses of antibiotics will likely be needed to kill the offending bacteria.

<https://www.theguardian.com/lifeandstyle/2015/mar/24/pesticides-antibiotic-resistance-study>

- A study published today by the American Society of Microbiology's journal mBio has linked glyphosate and two other widely-used herbicides—2,4-D and dicamba—to one of the most pressing public health crises of our time: antibiotic resistance.

<http://civileats.com/2015/03/24/study-links-widely-used-pesticides-to-antibiotic-resistance/>

<http://www.pnas.org/content/early/2015/03/18/1503141112.abstract>

- This study found that exposure to these herbicides in their commercial forms changed the way bacteria responded to a number of antibiotics, ... drugs widely used to treat a range of deadly diseases.
<http://mbio.asm.org/content/6/2/e00009-15>

Synthetic Chemical Pesticide Toxicology

Roundup / Glyphosate

2,4-D

Neonicotinoids

Synthetic Chemical Pesticide Toxicology - General

- Potential developmental neurotoxicity of pesticides used in Europe
<http://ehjournal.biomedcentral.com/articles/10.1186/1476-069X-7-50>

Round-up / Glyphosate Toxicology

Over 90% GMO crops are (see: Stats below) HT or Stacked Trait BT + HT "herbicide tolerant" to survive Glyphosate / Round-up. Many countries ban glyphosate and many other synthetic chemical pesticides. (see: Farming & Bans below)

- No Testing of Glyphosate Until Now - FDA to Start Testing for Glyphosate in Food Feb 2016
<http://civileats.com/2016/02/17/fda-to-start-testing-for-glyphosate-in-food/>

- Glyphosate, the active ingredient of the herbicide RoundUp is patented as an antiparasitic agent (and non selective antibiotic) glyphosate an antibiotic masquerading as a herbicide. As an antibiotic glyphosate kills bacteria at 1 ppm ...
www.google.com/patents/US7771736

- Co-formulants in pesticides like Round-up more toxic than glyphosate
CRIIGEN - Round-up endocrine-disrupting effects of glyphosate-based herbicides are not only attributable to glyphosate, the declared active ingredient, but above all to the co-formulants. ...The co-formulants ... far more powerful endocrine-disrupting effect at lower doses than the isolated active ingredient, glyphosate... much greater endocrine disrupting effects at lower doses than glyphosate alone. <http://www.gmoseralini.org/new-research-shows-regulatory-safe-limits-for-glyphosate-may-not-be-safe-at-all/>

- Report Co-Formulants in Glyphosate-Based Herbicides Disrupt Aromatase Activity in Human Cells below Toxic Levels
<http://www.mdpi.com/1660-4601/13/3/264>

- The impacts of pesticide exposure on human health can lead to a broad array of health outcomes including cancer, arthritis, birth defects, neurological disorders, developmental effects, and more.

The following scholarly, peer-reviewed articles provide insight on key research findings in this field.

Article 1 - "Positive Associations of Serum Concentrations of Polychlorinated Biphenyls or Organochlorine Pesticides ...Arthritis.. "

Article 2 - "Pesticide Applicators, Biocides, and Birth Defects in Rural Minnesota."

Article 3 ""Triazine Herbicide Exposure and Breast Cancer Incidence: An Ecologic Study of Kentucky Counties." <http://toxipedia.org/display/toxipedia/General+Health>

- Pesticides found to cause trans-generational mental disorders and obesity & Harmful traits are inherited for THREE generations. Links to studies in article:
www.naturalnews.com/053340_pesticides_genetic_expression_transgenerational_effects.html

- "It is a scandal that USDA tests for hundreds of pesticide residues but not glyphosate, which is among the most widely used chemicals on our food crops"
<http://usrtk.org/pesticides/usda-shirking-obligation-to-give-consumers-clarity-over-herbicide-residues-on-food-2/>

- World Health Organization Publishes Full Probable Human Carcinogen Report on Glyphosate
www.ewg.org/release/world-health-organization-labels-glyphosate-probable-carcinogen

-The International Agency for Research on Cancer, part of the World Health Organization (WHO), last month declared that glyphosate is a Group 2A carcinogen.

- The American Cancer Society .. listing glyphosate as a Group 2A carcinogen. "
www.i-sis.org.uk/Glyphosate_Probably_Carcinogenic_to_Humans.php

- International Journal of Environmental Research and Public Health and titled, "Non-Hodgkin Lymphoma and Occupational Exposure to Agricultural Pesticide Chemical Groups and Active Ingredients: A Systematic Review and Meta-Analysis," - Non-Hodgkin Lymphoma and Occupational Exposure to Agricultural Pesticide
www.greenmedinfo.com/blog/glyphosate-roundup-linked-cancer-lymph-tissue-new-study

- Glyphosate and Cancer - New research shows that the low levels of glyphosate found in human urine can promote the growth of human breast cancer cells, confirming the carcinogenic potential of the herbicide known since the 1980s

www.i-sis.org.uk/Glyphosate_and_Cancer.php

- Glyphosate / neurological disease correlation is attributed to the author, who is a doctor.

<http://sustainablepulse.com/2013/04/27/dr-swanson-gmos-and-roundup-increase-chronic-diseases-infertility-and-birth-defects>

- Glyphosate / Breast Cancer Study

www.ncbi.nlm.nih.gov/pubmed/23756170

- Birth defects: - Cells: In 2005, Richard et al. reported that "glyphosate is toxic to human placental JEG3 cells within 18 hr with concentrations lower than those found with agricultural use, and this effect increases with concentration and time or in the presence of Roundup adjuvants." In 2009, Benachour et al. evaluated the toxicity of four glyphosate-based herbicides in Roundup formulations on three different human cell types using a dilution far below agricultural recommendations and corresponds to low levels of residues found in food or feed. They reported that glyphosate formulations induce apoptosis and necrosis in human umbilical, embryonic, and placental cells."

<http://www.examiner.com/article/mounting-evidence-that-gmo-crops-can-cause-infertility-and-birth-defects>

<http://pubs.acs.org/doi/abs/10.1021/tx800218n>

- Glyphosate Formulations Induce Apoptosis and Necrosis in Human Umbilical, Embryonic, and Placental Cells - This work clearly confirms that the adjuvants in Roundup formulations are not inert. Moreover, the proprietary mixtures available on the market could cause cell damage and even death around residual levels to be expected, especially in food and feed derived from R formulation-treated crops. <http://pubs.acs.org/doi/abs/10.1021/tx800218n>

- Neurodevelopmental Disorders and Prenatal Residential Proximity to Agricultural Pesticides: The CHARGE Study

"... For exposure (any vs. none) during pregnancy, children with ASD (Autism Spectrum Disorder) were 60% more likely to have organophosphates applied nearby the home [1.25 km distance; adjusted OR (aOR) = 1.60; 95% CI: 1.02–2.51] than mothers of TD (typical development) children. Children with DD (developmental disorders) were nearly 150% more likely to have carbamate pesticides applied near the home during pregnancy (1.25 km distance; aOR = 2.48; 95% CI: 1.04–5.91). Both of these associations lessened as the buffer size grew larger (Tables 3 and 4), lending support to an exposure–response gradient..."

<http://ehp.niehs.nih.gov/1307044/>

- "While glyphosate was not included in the scope of this study, it should be noted that in pure chemical terms glyphosate is an organophosphate in that it contains carbon and phosphorous. "

<http://ecowatch.com/2015/01/23/health-problems-linked-to-monsanto-roundup/>

- Roundup Linked to Global Boom in Celiac Disease and Gluten Intolerance

<http://sustainablepulse.com/2014/02/19/roundup-linked-global-boom-celiac-disease-gluten-intolerance>

- Celiac & Roundup rates - The Real Reason Wheat is Toxic (it's not the gluten) Dr. Seneff's study of Roundup's ghastly glyphosate which the wheat crop in the United States is doused with uncovers the manner in which this lethal toxin harms the human body by decimating beneficial gut microbes with the tragic end result of disease, degeneration, and widespread suffering ... Roundup significantly disrupts the functioning of beneficial bacteria in the gut and contributes to permeability of the intestinal wall and consequent expression of autoimmune disease symptoms

www.thehealthyhomeeconomist.com/real-reason-for-toxic-wheat-its-not-gluten/

- Study - Roundup , at a dose 50 times lower than the agricultural application rate, mortality climbed to 100% -

Multiple effects of a commercial Roundup® formulation on the soil filamentous fungus *Aspergillus nidulans* at low doses: evidence of an unexpected impact on energetic metabolism

<http://link.springer.com/article/10.1007%2Fs11356-016-6596-2>

- Glyphosate Linked To Birth Defects

Physicians report that rates of serious birth defects in one of Argentina's poorest regions, Chaco, quadrupled the decade after glyphosate was introduced, while that of chronic kidney disease is soaring in young men and women in Central America, India, and other heavily sprayed regions. PDF REPORT

www.organicconsumers.org/news/monsantos-herbicide-roundup-linked-birth-defects

- Roundup cause birth defects in frog and chicken embryos at extremely low doses - Glyphosate Disrupts the Development of the Craniofacial Skeleton - Congenital Malformations - Alter Primary Neuron Differentiation

<http://www.salmone.org/wp-content/uploads/2010/09/frog-malform.pdf>

- Insecticides put world food supplies at risk, say scientists

www.theguardian.com/environment/2014/jun/24/insecticides-world-food-supplies-risk

- Roundup Has Destroyed Renal Tissues of Thousands of Farmers
- chronic liver disease epidemic .. affecting Asian farmers.

www.gmo-evidence.com/dr-jayasumana-roundup-has-destroyed-renal-tissues-of-thousands-of-farmers/

- 15 Health Problems Linked to Monsanto's Roundup - ADHD, Alzheimer's disease, Anencephaly, Autism, Birth defects, Brain cancer, Cancer, Celiac disease and gluten intolerance, Chronic kidney disease, Colitis, Depression, Diabetes, Heart disease, Inflammatory Bowel Disease ("Leaky Gut Syndrome"), Liver disease, Lou Gehrig's Disease (ALS), Multiple Sclerosis (MS), Non-Hodgkin lymphoma, Parkinson's disease, Pregnancy problems (infertility, miscarriages, stillbirths), Obesity, Reproductive problems, Respiratory illnesses

<http://ecowatch.com/2015/01/23/health-problems-linked-to-monsanto-roundup/>

- Glyphosate/Roundup & Human Male Infertility ... Age-independent testosterone decline reflects rise in glyphosate use with GM crops ... Acute Roundup exposure at very low concentrations kills cells in the immature testis ... Detailed mechanisms of action identified Oxidative stress and endocrine disrupting effects specific to Roundup

http://www.i-sis.org.uk/Glyphosate_Roundup_and_Human_Male_Infertility.php

- Genetically engineered crops, glyphosate and the deterioration of health in the United States of America Journal of Organic Systems, 9(2), 2014 ORIGINAL PAPER w. Charts "...Glyphosate disrupts the endocrine system and the balance of gut bacteria, it damages DNA and is a driver of mutations that lead to cancer. ..."

www.organic-systems.org/journal/92/abstracts/Swanson-et-al.html

- Detection of Glyphosate Residues in Animals and Humans Institute of Bacteriology and Mycology of Veterinary Faculty, University of Leipzig, Germany - Wildlife Research Institute, Bonn, Germany Avian and Rabbit Diseases Department, Faculty of Veterinary Medicine, Sadat City University, Egypt

...

glyphosate residues were tested in urine and different organs of dairy cows as well as in urine of hares, rabbits and humans using ELISA and Gas Chromatography-Mass Spectroscopy (GC-MS). The correlation coefficients between ELISA and GC-MS were 0.96, 0.87, 0.97 and 0.96 for cattle, human, and rabbit urine and organs, respectively. The recovery rate of glyphosate in spiked meat using ELISA was 91%. Glyphosate excretion in German dairy cows was significantly lower than Danish cows. Cows kept in genetically modified free area had significantly lower glyphosate concentrations in urine than conventional husbandry cows.

www.omicsonline.org/open-access/detection-of-glyphosate-residues-in-animals-and-humans-2161-0525.1000210.pdf

- Glyphosate, pathways to modern diseases II: Celiac spur and gluten intolerance

www.ncbi.nlm.nih.gov/pmc/articles/PMC3945755/

- Co-formulants of glyphosate herbicides are endocrine disruptors French-Hungarian study, the co-formulants of glyphosate herbicides are shown to be endocrine disruptors, i.e. to interfere with the human hormone system. Two ENSSER board members, ... are involved in the study.

www.ensser.org/media/0216/

- Independent Scientists Manifesto on Glyphosate

- 500+ scientists worldwide are calling on governments at all levels to ban the spraying of glyphosate herbicides, based on overwhelming evidence of harm from scientific studies and witness testimonies compiled by the group

www.i-sis.org.uk/Independent_Scientists_Manifesto_on_Glyphosate_signatures.php#form

- Glyphosate has been linked to non-Hodgkin's lymphoma and human embryonic cell death. Far from "biodegradable" Monsanto's own studies found residues of glyphosate on food crops up to five months after ... sprayed, and the World Health Organization found "significant residues" of glyphosate after pre-harvest use of the chemical on wheat... Beyond Pesticides and 32 other groups and individuals called on EPA to withdraw approval of glyphosate, citing the growing evidence of health and environmental risks from the pesticide.

<https://corporatecrime.wordpress.com/2009/10/17/monsanto-lies-again-and-again-and-again/>

- Glyphosate Found in Feeding Tube Liquid Given to Sick Children in Hospitals - Microbe Inotech lab detected 6 out of 20 (30%) of Pediasure samples from the same batch tested positive at levels above 75ppb at 800-1110 X higher than has been shown to destroy gut bacteria in chickens (.1ppb). Only 50ppT (trillion) was shown to cause liver, kidney and sex hormone changes in rats.

<http://healthimpactnews.com/2015/glyphosate-found-in-feeding-tube-liquid-given-to-sick-children-in-hospitals/#sthash.kfzPdwb.dpuf>

- Glyphosate's Suppression of Cytochrome P450 Enzymes and Amino Acid Biosynthesis by the Gut Microbiome: Pathways to Modern Diseases Negative impact on the body is insidious and manifests slowly over time as inflammation damages cellular systems throughout the body... interference with CYP enzymes acts synergistically with disruption of the bio-synthesis of aromatic amino acids by gut bacteria ... impairment in serum sulfate transport.

www.mdpi.com/1099-4300/15/4/1416

- New Study Shows Roundup Herbicide Causes Antibiotic Resistance in Bacteria. Research led by a team from the University of Canterbury, New Zealand has found that commonly used herbicides, including the world's most used herbicide Roundup, can cause bacteria to become resistant to antibiotics.

<http://mbio.asm.org/content/6/2/e00009-15>

- DFO Report Pesticides - "According to the US EPA, 50 inert ingredients of significant toxicological concern (Table 3) have been identified as carcinogenic, reproductive toxicants, neurotoxic, or developmentally toxic (birth defects) in laboratory or human studies"

www.dfo-mpo.gc.ca/Library/280637.pdf

- See Statistics: "...allowable glyphosate ... increased from 20 ppm to 40 ppm, which GM Watch acknowledged is over 100,000 times the amount needed to induce breast cancer cells ... EPA increasing limits on allowable glyphosate in food crops from 200 ppm to 6,000 ppm. "

www.rt.com/usa/monsanto-glyphosate-roundup-epa-483/

- Israeli, German researchers find link between industrialized foods and autoimmune diseases

www.jpost.com/Business-and-Innovation/Health-and-Science/Israeli-German-researchers-find-link-between-industrialized-foods-and-autoimmune-diseases-439296

- papers reporting on cell and animal experiments, studies showing endocrine disruption, oxidative stress, inflammation, and cancer. The WHO consulting experts like Professor Portier say it well on cancer risk in this german documentary on YouTube <https://www.youtube.com/watch?v=RQkQXyiynYs>

- Sterility: Men who eat fruit and vegetables with high pesticide residues could double their sperm count by switching to organic food, Harvard scientists suggests

www.telegraph.co.uk/news/science/science-news/11504380/Could-switching-to-organic-fruit-and-veg-could-double-sperm-count.html

- Studies - Exposure to synthetic chemical pesticides can effect multiple generations - Glyphosate is a catalyst for disease processes... damaging the gastrointestinal tract of humans, and depleting good species of bacteria that the body needs to detoxify and stimulate immune response. heart disease, diabetes, obesity, autism, infertility and cancer

http://midwestpesticideaction.org/wp-content/uploads/2015/12/MPAC_WhitePaper-final-12.11.15.pdf

- Even short-term use of the world's most popular herbicide, Roundup, could lead to a range of health problems including steroidal hormonal imbalances, says a new study. Toxicology Reports, Medhamurthy Rudraiah and Aparamita Pandey & Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science (IISc), Bengaluru "...Roundup, the best-selling herbicide, produced and manufactured by Monsanto, can cause imbalances in the synthesis of steroid hormones in male rats..."

www.thehindu.com/sci-tech/agriculture/is-roundup-herbicide-really-safe/article7619237.ece

- Study - Morphological and Biochemical Changes in Male Rats Fed on Genetically Modified Corn

www.academia.edu/3138607/Morphological_and_Biochemical_Changes_in_Male_Rats_Fed_on_Genetically_Modified_Corn_Ajeeb_YG

- Danish authority declares glyphosate a carcinogen "We know that glyphosate cause cancer in other mammals, but it has not been demonstrated in humans - This is because the effects have not been investigated thoroughly enough in people yet. But when we see that other mammals get cancer from glyphosate ... people who are exposed to the substance can also develop cancer."

www.gmwatch.org/news/latest-news/16206-danish-authority-declares-glyphosate-a-carcinogen

- Glyphosate Herbicide Causes Antibiotic Resistant Bacteria, Kidney Disease, and Infertility

<http://healthimpactnews.com/2014/glyphosate-herbicide-causes-antibiotic-resistant-bacteria-kidney-disease-and-infertility/>

- Study Glyphosate and 2,4-D - Antibiotic Resistance From Unexpected Sources - Herbicides, (Agro) Dust And Metals... three commercial herbicides - Monsanto's.. (Kamba)... (Roundup), and... (2,4-D) ... strains of E.coli and Salmonella... less sensitive to antibiotics.

- Glyphosate residues cannot be removed by washing and they are not broken down by cooking. - Glyphosate residues can remain stable in foods for a year or more, Roundup alone ... antibiotic ... resistance was found to develop rapidly. - Dr. Jack Heinemann, the study's lead author and professor at the at the University of Canterbury... while a bacteria alone might have been killed by an antibiotic, when exposed to an herbicide, a resistance gene is turned on, in effect ""immunizing' the bacteria to the antibiotic." ... weeds have become resistant to Roundup. New genetically modified soybeans and corn have been engineered by Dow to resist the "Enlist Duo" herbicide, which is a combination of glyphosate and 2, 4-D. Monsanto also is looking to sell soybean and cotton GMO varieties resistant to both herbicides... antibiotic-resistant bacteria are being spread from cattle yards through dust laden with excrement?... heavy metals, added to feed as growth promoters, ... can also select for antibiotic resistance.

www.forbes.com/sites/judystone/2015/04/01/antibiotic-resistance-from-unexpected-sources/#4757ad94740d

- Roundup® has an inhibitory effect on microbial growth and a microbicide effect at lower concentrations than those recommended in agriculture. www.greenmedinfo.com/article/roundup%C2%AE-has-inhibitory-effect-microbial-growth-and-microbicide-effect-lower-concentrations

- Prof. Seralini did the first long term study on glyphosate / round up and GMO. A scientific journal that published their study appointed an ex-monsanto shill as editor who pulled his study a year after it's publication. The journal was boycotted by 1400 scientists for "violating code and ethics of science" in it's retraction. http://www.i-sis.org.uk/Open_letter_to_FCT_and_Elsevier.php

- The Seralini Study has since been republished and should be the gold standard for safety testing of these

synthetic chemical and GMO technologies. Seralini has since won a defamation lawsuit for the false accusation by industry. Seralini has won a forgery lawsuit for forged signatures on the false accusations attempting to debunk the Roundup / GMO Long Term Study. See the study results, keep up to date:

www.gmoseralini.org/en/

- "Inert" ingredients in Round up "can be 1000x as toxic" than glyphosate alone

Follow-up Interview with Prof. Seralini: Video

www.youtube.com/watch?v=9ARD0INBxDA

- Study shows that 99.6% of Germans are contaminated with .. glyphosate, 75% ... were five times higher than the legal limit of drinking water. - A third... between ten and 42 times higher than what is normally permissible.

Glyphosate residues were recorded in 99.6% of the 2,009 people monitored by the study.

www.euractiv.com/section/agriculture-food/news/overwhelming-majority-of-germans-contaminated-by-glyphosate/

-Study - Glyphosate Potential toxic effects of glyphosate and its commercial formulations below regulatory limits

www.sciencedirect.com/science/article/pii/S027869151530034X

- Study - An in vitro study found that Roundup herbicide kills human placental cells at levels allowed in both Australian and U.S. drinking water. The study, done in Australia, found that Roundup was even more toxic to human cells than glyphosate alone www.gmo-evidence.com/wp-content/uploads/2015/03/IPTG-1-104.pdf

- Study - Co-Formulants in Glyphosate-Based Herbicides Disrupt Aromatase Activity in Human Cells Below Toxic Levels

www.mdpi.com/1660-4601/13/3/264

- Detection of Glyphosate Residues in Animals and Humans ... Institute of Bacteriology and Mycology of Veterinary Faculty, University of Leipzig, Germany - Medizinisches Labor Bremen Haferwende 12, 28357 Bremen, Germany - Wildlife Research Institute, Bonn, Germany Avian and Rabbit Diseases Department, Faculty of Veterinary Medicine, Sadat City University, Egypt PDF:

<http://omicsonline.org/open-access/detection-of-glyphosate-residues-in-animals-and-humans-2161-0525.1000210.pdf>

- Drinking well water and occupational exposure to Herbicides is associated with chronic kidney disease

Conclusion: The current study strongly supports the hypothesis that CKDu in Sri Lanka is a drinking-water-related disease in farmers who have a history of spraying glyphosate. Further studies should focus the abandoned drinking water sources in areas with high prevalence of the disease and investigate the link between CKDu and glyphosate in particular and heavy metals in drinking water.

www.ehjournal.net/content/pdf/1476-069X-14-6.pdf

- Glyphosate STUDY: Gene expression analysis confirms that long-term exposure to Roundup in an established laboratory animal toxicity model at an ultra-low, environmentally relevant dose "can result in liver and kidney damage with potential significant health implications for animal and human populations". The level at which toxicity occurred was 14,000 times lower than what is permitted in U.S. drinking water.

<http://www.gmwatch.org/news/latest-news/87-news/archive/2015/16375>

- Sub-lethal doses of glyphosate impair honeybee navigation

<http://gmwatch.org/news/latest-news/16336-sub-lethal-doses-of-glyphosate-impair-honeybee-navigation>

- Study: The use of glyphosate modifies the environment which stresses the living microorganisms.

www.ncbi.nlm.nih.gov/pubmed/23224412

- Study: Roundup disrupts male reproductive functions by triggering calcium-mediated cell death in rat testis and Sertoli cells. <http://www.ncbi.nlm.nih.gov/pubmed/23820267>

- Mechanisms underlying the neurotoxicity induced by glyphosate-based herbicide in immature rat hippocampus: involvement of glutamate excitotoxicity.

<http://www.ncbi.nlm.nih.gov/pubmed/24636977>

- EU parliament glyphosate test: "All participants excreted glyphosate by urine. This means that glyphosate could be also a health problem of EU-parliament members." On average, the MEPs had ...glyphosate in their urine, 17 times higher than the European drinking water norm ... 99.6% of all citizens who took part in this survey had higher residue levels. This means that virtually all citizens are contaminated with glyphosate. The values of children and younger age groups were double those of seniors. ... "

<http://www.greens-efa.eu/we-are-pissed-off-15542.html>

2,4-D Toxicology

- "Canada's federal regulator, in the reassessment ... 2,4-D, noted that the possible link to childhood cancer merited more study. - 2,4-D, damage the insulation (myelin sheath), covering the spinal cord and nerves ... four scientists and physicians reviewed the literature on 2,4-D in the medical journal Paediatrics and Child Health.8 They concluded: "the balance of epidemiological research suggests that 2,4-D can be persuasively linked to

cancers, neurological impairment and reproductive problems.” ... Health Canada’s 2005 assessment of 2,4-D “does not approach standards for ethics, rigour or transparency in medical research.”

http://wmfc.ca/wp-content/uploads/2016/03/CancerSmart_3.1_final.pdf

- 2,4-D - Background - Health hazards of 2,4-D - linked to cancer ... lowered sperm counts, liver disease and Parkinson’s disease. A growing body of evidence from laboratory studies show that 2,4-D causes endocrine disruption, reproductive problems, neurotoxicity and immunosuppression... The International Agency for Research on Cancer classifies 2,4-D as “possibly carcinogenic to humans.”

The EU Strategy for Endocrine Disrupters classifies 2,4-D in Category II on its priority list of suspected endocrine disrupting chemicals. - 2,4-D has been found in urine and semen, ... have been linked to sperm abnormalities, increased miscarriage rates, difficulties conceiving, bearing children and birth defects. - Dioxins contaminate 2,4-D. Adverse health effects could arise from 2,4-D or from breakdown products or dioxin contamination, or from a combination of ingredients. Dioxins are a group of highly toxic chemical compounds that bioaccumulate up the food chain ... EPA reports that 2,4-D is the 7th largest source of dioxins in the U.S.

www.cban.ca/Press/Background-Genetically-modified-2-4-D-tolerant-crops2

- 24D - scientific studies showing links to non-Hodgkin’s lymphoma

<http://pmep.cce.cornell.edu/profiles/extoxnet/24d-captan/24d-ext.html>

- Study: Antibiotic Resistance and Glyphosate & 24D - Sub-lethal Exposure to Commercial Formulations of the Herbicides Dicamba, 2,4-Dichlorophenoxyacetic Acid, and Glyphosate Cause Changes in Antibiotic Susceptibility in *Escherichia coli* and *Salmonella entericaserovar Typhimurium*

<http://mbio.asm.org/content/6/2/e00009-15.full>

- 2,4-D 1993 - A Pesticide Information Project of Cooperative Extension Offices of Cornell University, Michigan State University, Oregon State University, and University of California at Davis. Major support and funding was provided by the USDA/Extension Service/National Agricultural Pesticide Impact Assessment Program.

... causes reproductive effects at moderate doses in animals. This indicates that humans may be at risk with 2,4-D... significant increases of damage occurred in chromosomes in cultured human cells at low exposure levels ... rats fed 150 mg/kg on days 6-15 of pregnancy had an increase in skeletal abnormalities such as delayed bone development and wavy ribs (10) which are a function of general toxicity. The same conclusions may be drawn for 2,4-D’s potential to cause teratogenic effects in humans ... Several studies in Sweden and the United States (Kansas (1) and Nebraska (21)), suggest an association of 2,4-D exposure with cancer.

<http://pmep.cce.cornell.edu/profiles/extoxnet/24d-captan/24d-ext.html>

- EPA "... did not take steps to protect children’s health, as required by the Food Quality Protection Act"

re: EPA’s recent risk assessment for 2,4-D and Enlist® Duo ." ... EPA’s assessment omitted the possibility of inhaling 2,4-D – even though that’s one of the primary routes of exposure for people ... EPA disregarded the immune and reproductive toxicity of 2,4-D and overlooked potential links to Parkinson’s and cancer ... linked to cancer, Parkinson’s, reproductive problems and immune system failure

- EPA’s analysis: Failed to fully account for the risk to children;

Disregarded endocrine toxicity and immunotoxicity findings from animal studies; - Ignored 2,4-D inhalation, one of the primary routes of pesticide exposure for communities in the vicinity of sprayed fields; - Overlooked serious impacts on wildlife, including endangered species and honeybees.

<http://www.ewg.org/agmag/2014/06/epa-disregards-toxic-weed-killer-s-risks-children>

- EPA revokes the release of 24D 2,4-D was classified as a carcinogen by IARC.

EPA then revokes revoke ----- (politics or safety?)

<http://beyondpesticides.org/dailynewsblog/2016/01/court-rejects-epas-bid-to-revoke-use-of-dows-24-dglyphosate-enlist-duo-pesticide-in-ge-crops/>

- 24D - compilation Toxicology - 2,4-D has been linked to Cancer Endocrine Disruption Reproductive Toxicity Neurotoxicity Kidney/Liver Damage Toxicity to Dogs, Fish, Birds, Earthworms, and Beneficial Insects PDF

www.beyondpesticides.org/assets/media/documents/pesticides/factsheets/24D_Jul04.pdf

- 2,4-D is Linked to Cancer - 2,4-D Affects Reproductive Health in Men and Women - United States Geological Survey found 2,4-D widely detected in drinking water.

www.nrdc.org/health/lurking-in-the-weeds.asp

- 2,4-D herbicide initiating changes in cell cycle control, human stress response, and DNA repair ... ,2,4-D were found to change gene expression for important functions of the body, including immunology, stress response, cell cycle control and DNA repair. Egyptian geneticists found that the bone marrow cells of mice were being deconstructed in the presence of 2,4-D ... chromosome aberrations and hormonal fluctuations that would ultimately affect their mental state, metabolism, homeostasis and sex drive.

http://midwestpesticideaction.org/wp-content/uploads/2015/12/MPAC_WhitePaper-final-12.11.15.pdf

- The risks of the herbicide 2,4-D - A joint publication of Testbiotech, GeneWatch, UK Pesticides Action Network (PAN) Europe - "Dioxin was classified a human carcinogen in 1997 by IARC after a long campaign by industry to stop the classification7. It is also capable of causing reproductive problems and damaging the immune system...."

www.genewatch.org/uploads/f03c6d66a9b354535738483c1c3d49e4/Risks_of_herbicide_2_4_D.pdf

-2,4-D is "... persistent, bioaccumulative toxic substances are passed onto the next generation, and are linked to cancers, particularly non-Hodgkin's lymphoma, and to reproductive, immunological and neurological problems. The dioxins that are known to contaminate 2,4-D should be at least measured and the toxicities of those dioxins should be tested. This hasn't been done. No dioxin analyses were submitted in support of the PMRA's re-registration of 2,4-D..."

www.flora.org/healthyottawa/killlex.htm

- A 1986 National Cancer Institute study found that farmers in Kansas exposed to 2,4-D for 20 or more days a year had a six-fold higher risk for developing non-Hodgkins lymphoma. Five years later, another National Cancer Institute study... dogs were twice as likely to contract lymphoma if their owners used 2,4-D on their lawns. .One study found 2,4-D present in the indoor dust of 63 percent of sampled homes

www.ncbi.nlm.nih.gov/pubmed/3801091 ...

www.ncbi.nlm.nih.gov/pubmed/1870148 ...

<http://pubs.acs.org/doi/abs/10.1021/es960111r>

- Environmental Sciences Europe If new genetically engineered forms of corn and soybeans tolerant of 2,4-D are approved, the volume of 2,4-D sprayed could drive herbicide usage upward by another approximate 50%.

<http://enveurope.springeropen.com/articles/10.1186/2190-4715-24-24>

- Numerous studies in Sweden, Canada and by scientists at the U.S. National Cancer Institute have found that farmers who use 2,4-D and related herbicides are more likely to contract deadly NHL. While Sweden, Norway and Denmark have banned 2,4-D based on such studies, the U.S. Environmental Protection Agency (EPA) refuses to act. Other studies link farmer 2,4-D exposure to greater risk of Parkinson's Disease.

www.centerforfoodsafety.org/andrew-kimbrell/2440/andrew-kimbrell/andrew-kimbrells-blog/2563/less-than-one-month-to-comment-on-corn-resistant-to-agent-orange-herbicide-24-d

www.beyondpesticides.org/documents/acs-nhlymphoma-1999.pdf

<http://cebp.aacrjournals.org/content/10/11/1155.full.pdf#page=1&view=FitH>

http://cancerres.aacrjournals.org/content/52/19_Supplement/5485s.long

www.ncbi.nlm.nih.gov/pubmed/2078610

www.davidsuzuki.org/publications/downloads/2006/DSF-HEHC-Food1.pdf

<http://archneur.ama-assn.org/cgi/content/full/66/9/1106>

- Low-Dose Agrochemicals and Lawn-Care Pesticides Induce Developmental Toxicity in Murine Preimplantation Embryos Reproductive Toxicology Laboratory and Biostatistics Center, Marshfield Clinic Research Foundation, Marshfield, Wisconsin, USA www.medscape.com/viewarticle/478281

- (2,4-D) Pesticides and Non-Hodgkin's Lymphoma American Association for Cancer Research. Frequent use of phenoxyacetic acid herbicides, in particular, 2,4-dichlorophenoxyacetic acid, has been associated with 2- to 8-fold increases of NHL in studies conducted in Sweden, Kansas, Nebraska, Canada, and elsewhere.

http://cancerres.aacrjournals.org/content/52/19_Supplement/5485s

- Environmental Sciences Europe Study - If new genetically engineered forms of corn and soybeans tolerant of 2,4-D are approved, the volume of 2,4-D sprayed could drive herbicide usage upward by another approximate 50%.

<http://enveurope.springeropen.com/articles/10.1186/2190-4715-24-24>

- 2,4-D contamination in Abbotsford BC caused by drifts as far away as California

" a peak of 2,4-D was detected in air samples ... appeared to originate in the direction of the Imperial Valley in southern California ...

Several cases have been reported where the inert ingredients used were in fact more harmful than the active ingredient, ... both aerial and ground applications of Roundup® (glyphosate), 2,4-D, 2,4-DE, and Garlon 4® (triclopyr), was toxic to salmonids, especially in naturally soft water

- Pesticide use in BC / Yukon unknown - "data gap makes it difficult to readily and accurately assess the actual quantities of pesticides used in BC/Yukon" Highest glyphosate levels were found in the Lowermainland.

- Pesticide use in British Columbia and the Yukon - DFO Report

www.dfo-mpo.gc.ca/Library/280637.pdf

- Write the Minister of Health: Stop GM 2,4-D Tolerant Crops

www.cban.ca/Resources/Topics/GE-Crops-and-Foods-On-the-Market/Corn/Write-the-Minister-of-Health-Stop-GM-2-4-D-Tolerant-Crops

Also see Farming Failures - **Superweeds** below.

Neonicotinoid Toxicology

- Inadequate Risk Assessment - Absent from risk management decisions is consideration of pesticide mixtures commonly encountered in the field, specifically the potential for synergistic effects and chemical transformation

that may amplify the toxicity of a given insecticide to pollinators.

www.ncbi.nlm.nih.gov/pubmed/8433403

- Neonicotinoids do not work - EPA concludes that these seed treatments provide little or no overall benefits to soybean

production in most situations. Published data indicate that in most cases there is no difference in soybean yield when soybean seed was treated with neonicotinoids versus not receiving any insect control treatment.

www.epa.gov/pollinator-protection/benefits-neonicotinoid-seed-treatments-soybean-production

- "semi-field and full field studies were industry sponsored ... considered confidential business information and not available for public review. US EPA summarized and critiqued these studies in the Environmental Fate and Ecological Risk Assessment..."

www.regulations.gov/#!documentDetail;D=EPA-HQ-OPP-2013-0226-0047

- Study on Neonicotinoids Flawed - "the bumblebee hives intended as controls in the experiment had been hopelessly contaminated by neonicotinoids."

www.theguardian.com/environment/damian-carrington-blog/2013/jun/05/bees-neonicotinoids-pesticides

- Harvard study shows neonicotinoids are devastating colonies by triggering colony collapse disorder

www.theguardian.com/environment/2014/may/09/honeybees-dying-insecticide-harvard-study

- European Food Safety - EFSA identifies risks to bees from neonicotinoids

www.efsa.europa.eu/en/press/news/130116

- The Authority identified in particular high acute risks for bees from exposure via dust ...consumption of residues in contaminated pollen and nectar... via guttation fluid as regards maize... unacceptable risks due to acute or chronic effects on colony survival and development could not be excluded ... Authority identified a number of data gaps for each of the evaluated crops... long term risk to honey bees ... more

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:219:0022:0025:EN:PDF>

- Neonic Pesticides, banned in other countries. How long will it take Canada?

www.reuters.com/article/us-france-pesticides-idUSKCN0WK1KL

- EPA Admits That the World's Most Popular Pesticide Kills Bees - 20 Years Too Late

www.motherjones.com/tom-philpott/2016/01/epa-finds-major-pesticide-toxic-bees

- Neonicotinoids are the new DDT killing the natural world - Neonicotinoids are highly persistent chemicals, lasting (according to the few studies published so far) for up to 19 years in the soil... by volume these poisons are 10,000 times as powerful as DDT. When honeybees are exposed to just 5 nanogrammes of neonicotinoids, half of them will die..."

www.theguardian.com/environment/georgemonbiot/2013/aug/05/neonicotinoids-ddt-pesticides-nature

- "Kilos of Dead Bees"

www.treehugger.com/clean-technology/nicotine-bees-population-restored-with-neonicotinoids-ban.html

- Harvard School of Public Health (HSPH) re-create Colony Collapse Disorder in several honeybee hives simply by giving them small doses of a popular pesticide ...(neonicotinoid)... two more widely-reported studies...linked Colony Collapse Disorder to neonicotinoid pesticides.

<http://news.mongabay.com/2012/04/researchers-recreate-bee-collapse-with-pesticide-laced-corn-syrup/>

- PLOS Study: Birds - Pesticide Acute Toxicity Is a Better Correlate of U.S. Grassland Bird Declines than Agricultural Intensification

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0057457>

- EPA "...admitted neonicotinoids are to blame for the catastrophic bee deaths that have occurred over the last several years...." www.epa.gov/pesticides/epa-releases-first-four-preliminary-risk-assessments-insecticides-potentially-harmful

- Neonicotinoids December 2013, Banned by the EU

http://ec.europa.eu/food/animals/live_animals/bees/pesticides/index_en.htm

- UK government temporarily lifted EU ban of ... gagging its own expert advisers.

www.theguardian.com/environment/2015/jul/23/uk-suspends-ban-pesticides-linked-serious-harm-bees

- EU Parliament - Economic and Scientific Policy - Existing Scientific Evidence of the Effects of Neonicotinoid Pesticides on Bees PDF or:

www.ontariobee.com/inside-oba/news-and-updates/report-from-european-parliament-on-pesticide-research

- US court rules against neonicotinoid pesticide The US court found that the EPA, after initially asking Dow for more studies on these sub-lethal effects, eventually granted approval for the pesticides without them.

www.newscientist.com/article/dn28167-bees-win-as-us-court-rules-against-neonicotinoid-pesticide/

- New and Improved Neonicotinoids by Bayer Flupyradifurone - European Commission banned 3 bee-toxic neonicotinoid insecticides

www.pan-europe.info/press-releases/2015/11/flupyradifurone-second-bee-toxic-neonicotinoid-authorized-dg-sante-3-months%E2%80%A6

- EPA follows suit EPA Registers New Insecticide Alternative to Neonicotinoids Says it's "Safer for Bees"
www.epa.gov/pesticides/epa-registers-new-insecticide-alternative-neonicotinoids-safer-bees

- New Neonics Flupyradifurone - international Task Force on Systemic Pesticides analyzed 800 scientific studies and concluded that systemic pesticides like neonics are harming bees, butterflies, birds and worms and should be phased out globally.
www.davidsuzuki.org/blogs/science-matters/2014/10/more-bad-news-for-bees-the-new-f-word/

- Papers published over the past few weeks suggest that these neonicotinoids, pesticides implicated in killing or disabling bees, have similar effects on much of life on Earth ... Worldwide contamination, indiscriminately wiping out wild animals, including those on which farming depends: these are the findings of an analysis of 800 scientific papers, also just published:
www.theguardian.com/commentisfree/2014/jul/15/ban-neonicotinoids-another-silent-spring-pesticide-moratorium

- 4 Year Study Neonics - University of Saskatchewan biologist says many wetlands across the Prairies are being contaminated by a relatively new pesticide that is threatening the ecosystem... potentially having a devastating "domino effect" on insects and the birds that rely on them. 'The impact on biodiversity could be probably bigger than we've ever seen before.' - Christy Morrissey, biologist
"Neonics 'contaminating' western wetlands - 3 -4 times higher than what has been deemed habitable for insects.
- peak concentrations that are 100x or more higher than those benchmarks of safe levels - upwards of 80 to 90% of the wetlands are contaminated.
www.cbc.ca/news/canada/saskatchewan/pesticide-contaminating-prairie-wetlands-scientist-1.2482082

- State to pay farmers for Neonic contamination. "Minnesota links insecticide to damaged hives - Investigators confirmed link... This is the first action of any state, a finding of fact, that neonicotinoids are harmful to bees... ..
"Once you have a state compensating people for a loss, it's real... Even when used according to law ... acutely toxic to honeybees... Bayer has acknowledged that drift from corn planting, ... can damage bees and other insects ..."
www.startribune.com/in-win-for-beekeepers-state-links-insecticide-to-damaged-hives/372728941/

- Neonicotinoids linked to recent fall in farmland bird numbers Peer-reviewed research ... revealed data from the Netherlands showing that bird populations fell most sharply in those areas where neonicotinoid pollution was highest. "... Water pollution levels of just 20 nanograms of neonicotinoid per litre led to a 30% fall in bird numbers over 10 years, but some water had contamination levels 50 times higher..." Nature
www.theguardian.com/environment/2014/jul/09/neonicotinoids-farmland-birds

-The widespread use of pesticides such as neonicotinoids is not only harmful to bees and other pollinators, but humans as well, scientists believe. ... neurological effects such as reduced learning and cognitive abilities,... 2 to 30 per cent is taken in by the plant. The remaining amount is taken in by the soil which can then spread to non-targeted organisms, like butterflies, bees, fish — and recent evidence suggests even humans. ... neonics were only conditionally approved in Canada but have been widely used without much solid, independent research done on the consequences or the pervasiveness in the environment ... 51 per cent of plants tested from commercial nurseries tested positive with neonic residues. .. The European Food Safety Authority .. concluded .. neonics could affect the human nervous system.
<http://globalnews.ca/news/2646172/how-the-pesticide-thats-killing-the-bees-could-be-affecting-humans/>
<http://www.efsa.europa.eu/en/press/news/131217>

- in 2000, less than 5 percent of soybean acres and less than 30 percent of corn acres were treated with an insecticide, but by 2011, at least a third of all soybean acres and at least 79 percent of all corn acres were planted with neonicotinoid-coated seed, <http://news.psu.edu/story/351027/2015/04/02/research/rapid-increase-neonicotinoid-insecticides-driven-seed-treatments>

Also See Neonicotinoid **Bans** for more on neonicotinoids bans and sustainable alternatives.

GMO Politics

Political Interference

No Proof of Safety

Not Equivalent

GMO Politics - Political Interference

- Health Canada cites FDA as a source of proof of safety for GMO and Novel Foods technology. Health Canada uses 20 yr. old guidelines & cooked biotech studies as proof of Novel Foods safety
www.hc-sc.gc.ca/fn-an/gmf-agm/appro/index-eng.php

- Monsanto / US FDA EPA govt. appointments The revolving door that threatens health and food safety:
www.globalresearch.ca/monsanto-controls-both-the-white-house-and-the-us-congress/5336422

- Revolving Door - Monsanto / FDA / EPA
<http://rense.com/general33/fd.htm>

- The FDA does not test whether GMOs are safe "...companies submit their own studies to the FDA as part of a voluntary "consultation."
<http://usrtk.org/the-fda-does-not-test-whether-gmos-are-safe>

- "The Fed govt. does not require one iota of testing " FDA does not review original data. rubber stamp. It is a voluntary process. Presumed safe. No testing required. zero data presumed safe before the first safety test.
<http://tvo.org/video/programs/the-agenda-with-steve-paikin/judging-gmos>

- GM food nightmare unfolding in the regulatory sham
- 19-page report contains more than 130 references. It draws together evidence from all over the world indicating that GM food and feed may be inherently hazardous to health, regardless of the plant species or the genetic modification involved.
www.i-sis.org.uk/GM_Food_Nightmare_Unfolding.php

- Health Canada abandons promises to monitor the health effects of GMO and update 1994 guidelines. In 2002 Health Canada promises to monitor GMO effects on the health of Canadians and update it's 1994 guidelines.

ARCHIVED - "in response to the Expert Scientific Panel of the Royal Society of Canada report entitled: Elements of Precaution: Recommendations for the Regulation of Food Biotechnology in Canada. "... biotechnology surveillance program
http://www.hc-sc.gc.ca/sr-sr/pubs/gmf-agm/RSC_response-reponse_SRC-eng.php

- CBC report " when we checked back for this story, we found Health Canada had abandoned that research less than a year later"
Health Canada cites "It was too difficult to put in effect surveillance systems in place"... "Scientists can't say for sure it's safe to eat" <https://youtu.be/vZK8VG8qHbk?t=8m>

-Canada Audit of Govt. Regulations - Risky pesticides left on market too long, (11 YEARS) environment watchdog says
www.cbc.ca/news/politics/gelfand-environment-commissioner-pesticides-fall-2015-report-1.3420160

- Canadian govt. "conditionally registered pesticides, fungicides and herbicides which have not been fully vetted have in some cases been in use for more than a decade."
www.news1130.com/2016/01/27/report-finds-federal-pest-agency-takes-years-to-ban-known-harmful-pesticides/

- 60 active ingredients in pesticides which are banned in most OECD (Organization of Economic Cooperation and Development) countries, but are permitted in Canada
<https://pesticidealternativesnl.wordpress.com/rest-of-canada/>

- Health Canada kept 'predatory' publisher despite warning from government expert Health Canada kept working with a "predatory" publisher in Croatia - a website publishing shoddy science - even after a Canadian government expert warned the department against the practice, the Citizen has learned.
<http://ottawacitizen.com/news/local-news/health-canada-kept-predatory-publisher-despite-warning-from-government-expert>

- Health Canada's lack of rigorous safety review is the real outrage
<http://rabble.ca/news/2015/07/health-canadas-lack-rigorous-safety-review-real-outrage>

- "... Health Canada has abdicated its responsibility to insure the safety of Canada's food chain, by declaring that the "GMO salmon is as safe and nutritious for humans and livestock as conventional salmon,"... no long-term safety tests were conducted to determine the potential negative consequences on public health of this genetic aberration ... scientists found significant problems with the GE fish, including greater susceptibility to disease (which may require the use of potent antibiotics), and widely inconsistent growth rates. It was also noted that the GE fish may produce a hormone that can increase cancer risk in humans if they consume the fish ..."
https://www.thestar.com/opinion/letters_to_the_editors/2016/05/29/is-gmo-salmon-really-safe-to-eat.html

- Environment Canada Does Not Know the Impacts of GMO

- Environment Canada ..lack the data on the contaminant impacts of GMO on the ecosystem. call for: Outdated and nonexistent studies. Endocrine Disruption and Ecological Effects of GMO " need more study" 2008 Environment Canada. "Possible future developments with GMOs that may be problematic include GMOs with multiply-engineered traits (resulting from "gene stacking")... unpredictable effects on non-target organisms, ..."super weeds." ...reservoirs of diseases, or transfer diseases to indigenous species? Might GMO waste management become problematic?"
www.ec.gc.ca/inre-nwri/default.asp

- No Testing of Glyphosate in Canada - "Canada's Government Report on Environmental Chemicals Excludes Mention of Glyphosate" GM crops and technology that has not been independently proven safe ... no safety data, no product release (2016 - US is now forced to test for glyphosate due to the same glaring omission in the pesticide report)

<https://www.change.org/p/minister-of-health-canada-justin-trudeau-health-canada-prove-glyphosate-is-safe/u/16180817>

- "... Canada approves GMO without independent tests on their safety. It accepts food based on data provided by the maker, who obviously have an incentive to see their product approved. This self-regulating is a clear case of conflict of interest ... British Columbia has ... 61 municipalities ... GE-free zones ... Union of British Columbia Municipalities present resolution that reads: that UBCM ask the British Columbia government to legislate the prohibition of importing, exporting and growing plants and seeds containing genetically engineered DNA, and raising GE animals within BC, and to declare, through legislation, that BC is a GE Free area in respect to all plant and animal species.

61 BC Municipalities GE-Free zones: <http://gefreesbc.wordpress.com/category/ge-free-zones/>

The resolution <https://gefreesbc.wordpress.com/ubcmresolution/>

- Canada's Environment Minister cites "COPYRIGHT" as a reason to not disclose toxins in our drinking water. "Canadian provincial health authorities warned ... nursing mothers, babies and toddlers, people with suppressed immune systems such as cancer patients on chemotherapy, those with chronic illnesses or taking medications that can interact with nitrates — to stop drinking the water and find alternative sources. ... yet: "Continued concealment is particularly indefensible, since in March 2015 government made an explicit agreement to share the soil test results and a synopsis of the farm nutrient management plan."

<http://vancouver.sun.com/opinion/columnists/stephen-hume-provinces-secrecy-puts-peoples-health-at-risk>

- Canada's Minister of Agriculture Parrots False Biotech Propaganda. "Mandatory GM labeling is an ill-informed, ideologically-driven proposal that would increase red-tape on businesses, decimate Canadian farmers, and drastically increase costs for Canadian consumers"... None of these problems occurred in the 60+ countries ... that have mandatory GMO labeling.

www.huffingtonpost.ca/rachel-parent/canada-gmo_b_7905938.html

- 2016 - Canada 'must' review pesticides banned in Europe ... Federal Court in a decision on Friday says the federal government should now review hundreds of pesticide and herbicide products used in Canada which contain chemicals banned in Europe

<http://www.rcinet.ca/en/2016/05/24/canada-must-review-pesticides-banned-in-europe/>

- Regulatory assessment of Bt crops flawed

EPA registers Bt crops without adequately assessing this potential impact.

<http://gmo-journal.com/2009/10/20/epas-flawed-regulation-of-gmos-examined/#sthash.9vEVedEw.dpuf>

- "...US regulators rely almost exclusively on (caught manipulated) information provided by the biotech crop developer, and those data are not published in journals or subjected to peer review... The picture that emerges from our study of US regulation of GM foods is a rubber-stamp 'approval process' designed to increase public confidence in, but not ensure the safety of, genetically engineered foods." David Schubert, professor and head, Cellular Neurobiology Laboratory, Salk Institute (16 citations)

www.gmoseralini.org/fda/

- No Testing of Glyphosate Until Now - FDA to Start Testing for Glyphosate in Food Feb 2016 -

<http://civileats.com/2016/02/17/fda-to-start-testing-for-glyphosate-in-food/>

- EPA New Glyphosate Report Posted Then Pulled from the Web dated Oct 2015 -

So ... the report in turn cites a 25 year old study that concludes glyphosate has no effect because the damage was found in all doses. The controls had no tumours at all, so they decided glyphosate was safe because this was exceptional.

(See: Glyphosate Toxicology)

PDF: <http://src.bna.com/eAi>

- EU Food and Environment Research Agency commissioned a study claiming to show that bees were not being harmed. It was so flawed that no journal would take it. The lead author soon left to work for Syngenta. (also see "politics")

www.theguardian.com/environment/2013/jul/26/government-bee-scientist-pesticide-firm

- EPA, Monsanto ignore health risks of RNA interference technology

http://www.earthisland.org/journal/index.php/elist/eListRead/a_very_different_kind_of_gmo/

- GMO not regulated - USDA will no longer regulate a genetically-modified corn developed by Monsanto Co to resist its dicamba herbicide, the agency said on Wednesday. USDA also extended deregulation of Syngenta's MZIR098 corn,

www.reuters.com/article/us-usa-grains-regulation-idUSKCN0WQ013

- Canada gutted the definition of "natural" to mean absolutely nothing. In the US "natural" protects natural foods from synthetic petrochemical and genetically engineered contamination.

Natural labeling in the US is a small saving grace. On the heels of many class action lawsuits, the US govt. has opened up comments regarding the legal definition rather than enforcing their own laws.

www.foodnavigator-usa.com/Regulation/FDA-seeks-comments-on-use-of-the-term-natural-on-food-labels

- Avoiding bothersome regulation - Not just a legal question - Unintended consequences -

<http://beyond-gm.org/gmo-or-gm-no-how-will-the-eu-regulate-new-plant-breeding-technologies/>

- The (GMO) mushroom is one of about 30 genetically modified organisms (GMOs) to sidestep the USDA regulatory system in the past five years. In each case, the agency's Animal and Plant Health Inspection Service (APHIS) has said that the organisms — mostly plants — do not qualify as something the agency must regulate. (Once a crop passes the USDA reviews, it may still undergo a voluntary review by the US Food and Drug Administration.)

<http://www.nature.com/news/gene-edited-crispr-mushroom-escapes-us-regulation-1.19754>

- Is Environment Canada Hogtied by Special Interests

"If Environment Canada initiated a program of research and monitoring on potential ecosystem effects of GMOs... it would collaborate with other federal government departments (and academia and the private sector) ... It was strongly felt by Environment Canada workshop participants that the "Department should have the capacity to ensure the sufficiency of current regulations on GMO use"

www.ec.gc.ca/inre-nwri/default.asp?lang=En&n=235D11EB-1&offset=9&toc=show

- Yukon Agricultural board buries its head .. re GMO

www.yukon-news.com/news/agricultural-board-buries-its-head-in-the-dirt

- EU Regulators and Monsanto Exposed for Hiding Glyphosate Toxicity Since 1993, the company has been aware that even middle and low doses can cause these malformations.

www.ncbi.nlm.nih.gov/pmc/articles/PMC2726844/

- Self Regulation - "Asked how National Pollutant Discharge Elimination System (NPDES) permits, which allow farming operations to discharge nitrogen, are enforced, the EPA says, "The permit will require the facility to sample its discharges and notify EPA and the state regulatory agency of these results. In addition, the permit will require the facility to notify EPA and the state regulatory agency when the facility determines it is not in compliance with the requirements of a permit. EPA and state regulatory agencies also will send inspectors to companies in order to determine if they are in compliance with the conditions imposed under their permits."

<https://www.epa.gov/npdes/npdes-frequent-questions#pane-9>

<http://www.alternet.org/food/meet-monsantos-evil-twin-industry-does-major-damage-and-gets-shockingly-little-attention>

- "US French Ambassador Craig Stapleton asks Washington to punish the EU countries that did not support the use of GM crops: "Moving to retaliation will make clear that the current path has real costs to EU interests and could help strengthen European pro-biotech voices... "Country team Paris recommends that we calibrate a target retaliation list that causes some pain across the EU since this is a collective responsibility, but that also focuses in part on the worst culprits." Wikileaks Cable:

http://wikileaks.org/plusd/cables/07PARIS4723_a.html

- Federal Institute for Risk Assessment (BfR) found statistically significant tumor incidence in five mice-studies provided by the industry, using a different statistical test (the "trend test") . But, in a blatant violation of OECD-guidelines and basic scientific principles, first BfR and then EFSA discarded these findings as irrelevant to exposure (see Annex for detailed explanation).

http://www.pan-germany.org/download/Analysis_EFSA-Conclusion_151201.pdf

http://www.pan-germany.org/download/PAN_Germany_Addendum_analysis_09112015.pdf

<http://www.pan-europe.info/press-releases/2016/03/2-march-2016-glyphosate-re-authorisation-ngos-join-forces-demand-legal-action>

- Over half the experts in Argentine GMO regulatory body have conflicts of interest with industry

<http://www.gmwatch.org/news/...-over-half-the-experts-in-argentine-gmo-regulatory-body-have-conflicts-of-interest-with-industry>

- Rubber-Stamped Regulation: The Inadequate Oversight of Genetically Engineered Plants and Animals in the United States -

The existing regulatory framework for GE foods simply does not protect consumers, markets, and international trade relationships. The U.S. regulatory system ... has failed to protect the environment, the food system, or public health from the uncertainties and negative consequences of GE foods. Teresa Carlson, Mälardalen University, Sweden

<http://bit.ly/RubberStampGMOregulations>

- EU Member States were given the opportunity to opt out of GMO, 2/3 of the member states voted to ban GMO.

www.rt.com/news/317638-eu-gmo-cultivation-opt-out/

So, the EU revoked their member's rights to choose to ban GMO.

<http://ecowatch.com/2015/10/13/europe-gmo-imports/>

- Sixty-seven Members of the European Parliament (MEPs) have written a letter Thursday to the European Commissioner for Health and Food Safety, Vytenis Andriukaitis, to request for the re-approval of glyphosate, the most widely used herbicide in the World, to be stopped due to a lack of transparency in the re-approval process as

well as serious health concerns.

<http://sustainablepulse.com/2016/01/28/meps-call-on-eu-health-commissioner-to-cancel-re-approval-of-glyphosate/>

"NGOs Sue Monsanto & EU Food Safety Watchdog Over (glyphosate) Pesticide

"Authorities have to act in the public interest ... This has not been the case for glyphosate Our analysis revealed serious breaches against the guidelines of cancer data analysis, which show the discrepancy between the (IARC) on the one hand, and Monsanto, BfR and EFSA on the other," said Global 2000 spokesman Helmut Burtscher."

<http://phys.org/news/2016-03-ngos-sue-monsanto-eu-food.html>

- June 24th 2016 - The European Union Appeals Committee has failed to reach agreement over the re-licensing of the World's most used herbicide, glyphosate, with France and Malta voting against the re-approval and seven other countries abstaining including Germany, Italy, Portugal, Austria, Luxembourg, Greece and Bulgaria ... The European Commission had thrice failed earlier in 2016 to garner enough support from EU governments for a long-term re-approval of glyphosate, before suggesting the temporary re-approval.

<http://sustainablepulse.com/2016/06/06/great-glyphosate-rebellion-continues-as-europe-refuses-temporary-license-extension/>

<http://sustainablepulse.com/2016/06/24/eu-appeals-committee-says-no-to-glyphosate-re-license>

June 29, 2016 - EU regulators kicks that toxic glyphosate can down the road

The European Union's executive Commission has given the go-ahead for the popular weed killer glyphosate to be used for up to 18 months ...

<http://phys.org/news/2016-06-eu-glyphosate-weed-killer.html>

- "Deny Americans the Right to Know" Act - the DARK Act, was blocked by Senate Democrats in March."

<http://www.nytimes.com/2016/03/17/business/bill-to-stop-states-requiring-labeling-of-gmo-foods-fails.html>

Denying people the right to know in the US, the "DARK" act failed in March... then, without debate, just as Vermont finalizes their GMO labeling laws, the DARK act is passed without debate. Turns out, politicians were on the take. :o

http://m.sputniknews.com/radio_thom_hartmann_show/20160706/1042505037/vermont-gmo-democracy.html

- The Dark Act marginalize the poor and elderly.

"while the Vermont law would be nullified immediately, the law gives the U.S. Department of Agriculture's Agricultural Marketing Service (AMS) two years to finalize a rule laying out the disclosure requirements.... "

<http://usrtk.org/gmo/for-gmo-labeling-advocates-it-doesnt-get-much-darker-than-this/>

- Activists Expose Monsanto's Senate Lackeys Minutes Before DARK Act Vote

highlight how senators who took money from Big Ag .. are voting against majority public opinion on GMO labeling

<http://www.commondreams.org/news/2016/07/06/activists-expose-monsantos-senate-lackeys-minutes-dark-act-vote>

GMO Politics - No Proof of Safety

- The Norwegian government, via The Norwegian Biotechnology Advisory Board (NBAB) - Norwegian Environment Agency assess the sustainability of genetically modified (GM) herbicide-tolerant (HT) plants... examines a dossier that was submitted to the Brazilian government by Monsanto ... the research was flawed and lacking a tremendous amount of data... GMO Intacta Roundup Ready 2 Pro soybeans, finally concluding that the science behind the cultivation of this crop is simply inadequate.. methodological weaknesses as well as the problem of incomplete information, research, and science on Genetically Modified Crops. ...

<http://healthyadvicepro.com/new-norwegian-study-accuses-monsanto-of-falsely-claiming-gmos-are-safe/>

- Although Portugal's Ministry of Agriculture monitors food annually for the presence of over 300 pesticide residues, glyphosate has been excluded from these analyses. The same goes for tap water, since the Ministry does not include glyphosate in the list of substances to be tested by utility companies.

... 26 volunteers were tested by the Portuguese No GMO Coalition ... glyphosate was detected in 100% of the urine samples. <http://sustainablepulse.com/2016/05/09/portugal-wakes-up-to-glyphosate-contamination-reality>

- "The fact that long-term effects require long-term studies may seem obvious, but ... beyond the comprehension of GMO regulators worldwide, none of whom require tests of longer than 90 days in rats (about 7 years in human terms). It's a case of 'don't look, don't see.'"

<http://www.gmoseralini.org/seralini-study-retraction-intended-to-shut-down-possibility-of-long-term-gmo-tests-forever/>

- "Marg Friesen from the Environmental Health Association, ...142 studies linking pesticide use to illnesses including cancer and birth defects and was cited as reason to ban (24D)... ... biggest effect on the unborn, babies, pregnant mothers and teens in puberty... adverse affects at very low levels"

www.winnipegsun.com/2014/04/18/pesticide-ban-playing-politics-landscaper

- The Weston A. Price Foundation - presenting valid and carefully referenced scientific evidence refuting the incomplete evidence and self-serving arguments made by the Solae Company. In its original petition and follow-up document, Solae:... did not establish the safety of soy protein - chose to dismiss well-designed studies that show

adverse effects on the thyroid, reproductive and other systems of the body. failed to show definitively that soy protein prevents cancer ... ignored evidence that soy protein can contribute to or even cause cancer.
www.fda.gov/ohrms/dockets/dockets/04q0151/04q-0151_emc-000300-01.txt

- Environmental Sciences Europe ... consensus is shown to be an artificial construct that has been falsely perpetuated ... Published results are contradictory, in part due to the range of different research methods employed, an inadequacy of available procedures, and differences in the analysis and interpretation of data. ... lack of consensus on safety is also evidenced by the agreement of policymakers from over 160 countries ...
<http://enveurope.springeropen.com/articles/10.1186/s12302-014-0034-1>

- in the UN's Cartagena Biosafety Protocol and the Guidelines of the Codex Alimentarius - Rigorous assessment of GMO safety has been hampered by the lack of funding independent of proprietary interests. Research for the public good has been further constrained by property rights issues, and by denial of access to research material for researchers unwilling to sign contractual agreements with the developers, which confer unacceptable control over publication to the proprietary interests.
...concludes that the scarcity and contradictory nature of the scientific evidence published to date prevents conclusive claims of safety, or of lack of safety, of GMOs. Claims of consensus on the safety of GMOs are not supported by an objective analysis of the refereed literature. CACHE:
http://webcache.googleusercontent.com/search?q=cache:_pu42jh2tlUJ:

- Science: video: www.youtube.com/watch?v=-sCleUewUJ

- More scientists: <http://commonsensecanadian.ca/gmo-whistleblower-canadian-federal-scientist-speaks-out/>

- Banishing Glyphosate with scientific evidence - Link Compilation - EU Regulators and Monsanto Exposed for Hiding Glyphosate Toxicity... from Farm to Clinic ... Marked Deterioration of Public Health Parallels Increase in GM Crops and Glyphosate Use, US Government Data Show - Devastating Impacts of Glyphosate Use with GMO Seeds in Argentina.. Roundup & Human Male In fertility - Sri Lanka Partially Bans Glyphosate for Deadly Kidney Disease Epidemic - Changing from GMO to Non-GMO Natural Soy, Experiences from Denmark - Scandal of Glyphosate Re-assessment in Europe- Glyphosate "Probably Carcinogenic to Humans' Latest WHO Assessment
www.i-sis.org.uk/Banishing_Glyphosate.pdf

- Union of Concerned Scientists Suppressing Research - 8 Ways Monsanto Fails at Sustainable Agriculture:
www.ucsusa.org/food_and_agriculture/our-failing-food-system/genetic-engineering/eight-ways-monsanto-fails.html

- New England Journal of Medicine - GMOs, Herbicides, and Public Health - The National Academy of Sciences "... genetic transformation has the potential to produce unanticipated allergens or toxins and might alter the nutritional quality of food. Both reports recommended development of new risk-assessment tools and postmarketing surveillance. Those recommendations have largely gone unheeded..."
<http://www.nejm.org/doi/full/10.1056/NEJMp1505660>

- Ractopamine - "beta-agonists," in pigs &- No independently-funded scientific research has studied human health impacts from long-term, low-level consumption of meat raised with such additives.
www.reuters.com/article/us-usa-smithfield-ractopamine-analysis-idUSBRE94T03520130530

- 17 Scientists Speak Out: Monsanto's Roundup is Causing Cancer The Lancet: "In March, 2015, 17 experts from 11 countries met at the International Agency for Research on Cancer (IARC; Lyon, France) to assess the carcinogenicity of the organophosphate pesticides tetrachlorvinphos, parathion, malathion, diazinon, and glyphosate (table). These assessments will be published as volume 112 of the IARC Monographs."
www.thelancet.com/journals/lanonc/article/PIIS1470-2045%2815%2970134-8/abstract

- Open Peer Review - Concerns over use of glyphosate-based herbicides and risks associated with exposures: a consensus statement .. Calls for independent scientists to conduct the appropriate long-term (minimum 2 years) safety studies in recognized animal model systems. A thorough and modern assessment of GBH toxicity will encompass potential endocrine disruption, impacts on the gut microbiome, carcinogenicity, and multigenerational effects looking at reproductive capability and frequency of birth defects.
<http://ehjournal.biomedcentral.com/articles/10.1186/s12940-016-0117-0>

- Author - 2015 Challenge to Monsanto to prove safety of GMO in light of corruption exposed.
www.biointegrity.org/list.html

- No scientific consensus on GMO safety: signed by 300 scientists, physicians and scholars - claim of scientific consensus on GMOs ...
"an artificial construct that has been falsely perpetuated" the peer-reviewed statement said.
www.centerforfoodsafety.org/press-releases/3766/are-gmos-safe-no-consensus-in-the-science-scientists-say-in-peer-reviewed-statement

- Hundreds of thousands of health professional -> THERE IS NO SCIENTIFIC CONSENSUS ON THE SAFETY OF GMOs
www.gmofreeusa.org/research/gmo-safety/

- Argentina: 30,000 Doctors and Health Professionals Demand Ban on Glyphosate
<http://sustainablepulse.com/2015/04/19/argentina-30000-doctors-and-health-professionals-demand-ban-on-glyphosate/>

- Conflicts of Interest Compromise Science

"... endemic conflicts of interest in which money and political power undermine scientific risk assessments, placing in jeopardy the public's health and well-being. - Scientists often have financial and other conflicts of interest which, in turn, lead to biases that impact on conclusions. A fascinating recent example of apparent unconscious bias comes from a survey of scientific publications commissioned by the Dutch government on the effects of pesticidal GMO (Bt) crops on non-target organisms in outdoor experiments. The survey revealed that researchers who found negative consequences of GMO (Bt) crops were disregarding their own findings, even when these were statistically significant. ..."

<http://whowhatwhy.org/2016/07/07/unsafe-level-dangerous-chemicals-everywhere-part-2/>

- compilation - scientific references -1800 studies, surveys, and analyses - impacts of GE crops, foods and related pesticides.

www.gmofreeusa.org/research/gmo-science-research/

- No legitimate Proof of Safety, Manipulation of Regulations, Politics and Studies Links provided:

www.counterpunch.org/2016/02/05/lies-lies-and-more-lies-gmos-poisoned-agriculture-and-toxic-rants/

- Safety Assessments of GMOs Are Non-Existent' GMO soy - not equivalent

www.organicconsumers.org/news/safety-assessments-gmos-are-non-existent

- "No scientific consensus on GMO safety" statement published in peer-reviewed journal The joint statement developed and signed by over 300 independent researchers - Scientists Declare No Consensus on GMO Safety A group of 93 scientists worldwide deplore the disinformation over the safety of GMOs and expose the lack of empirical and scientific evidence on which the false claims of "consensus" on safety are being made"

<http://www.ensser.org/media/0115/>

- Leading scientific and medical experts, along with children's health advocates, came together in 2015 under the auspices of Project TENDR: Targeting Environmental Neuro-Developmental Risks

- CONCLUSION: Based on these findings, we assert that the current system in the United States for evaluating scientific evidence and making health-based decisions about environmental chemicals is fundamentally broken.

<http://ehp.niehs.nih.gov/EHP358/>

- Nobel Laureates Love GMO?

Another spinning attempt by famous gmo-troll John Entine to manipulate the public about GMO?

"According to the website GMWatch, the url: supportprecisionagriculture(dot)org has an inoperative sister: supportprecisionagriculture(dot)com that is traceable back to the Genetic Literacy Project."

Genetic Literacy Project run by a notoriously aggressive GMO peddler.

Like all those "scientists" paid to endorse GMO, I bet this scandal is just beginning to unravel.

<http://www.counterpunch.org/2016/07/01/107-nobel-laureate-attack-on-greenpeace-traced-back-to-biotech-pr-operators/>

<http://www.gmwatch.org/news/latest-news/17077-pro-gmo-campaign-exploits-nobel-laureates-to-attack-greenpeace-and-fool-the-people>

- Monsanto Fingerprints Found All Over Attack On Organic Food (abbreviated)

"Jay Byrne, former head of communications at Monsanto ... "... we can (not via e-mail) get a clear picture of options for taking the Academic Review project and other opportunities forward. The "Center for Consumer Freedom" (ActivistCash.com) has cashed in on this to the extreme." ...

Byrne shared an "opportunities" list of targets ... (scientists, doctors, environmental groups, food advocacies, unions...etc) ... on all the risk areas of ag-biotech (out crossing/ contamination, bees, butterflies, human safety, etc...) ..."Byrne wrote ... could be solved by paying experts to provide responses... establishing 501(c)3 not-for-profit status to facilitate fund raising ... (Monsanto Executive Team) and can help motivate CLI/BIO/CBI and other organizations to support. The key will be keeping Monsanto in the background so as not to harm the credibility of the information." ... corporate front group ... inaccurate scientific claims ... Chassy still enjoys press coverage as an "independent" expert on GMOs. In May 2016, two separate Associated Press stories quoted Chassy on that topic. Neither story mentioned Chassy's now-public financial ties to Monsanto.

http://www.huffingtonpost.com/stacy-malkan/monsanto-fingerprints-fou_b_10757524.html

<http://usrtk.org/hall-of-shame/why-you-cant-trust-the-american-council-on-science-and-health/>

<http://usrtk.org/hall-of-shame/why-you-cant-trust-henry-miller-on-gmos/>

US Denying American's the right to know "DARK" act failed in March when the spotlight was on this legislation that would further marginalize the poor and elderly ... 4 months later, just as Vermont finalizes their state GMO labeling laws, the DARK act returns and is passed without debate. Turns out politicians were on the take from biotech.

- Activists Expose Monsanto's Senate Lackeys Minutes Before DARK Act Vote - Actions highlight how senators who took money from Big Ag companies are voting against majority public opinion on GMO labeling

<http://www.commondreams.org/news/2016/07/06/activists-expose-monsantos-senate-lackeys-minutes-dark-act-vote>

-- Lancet Scientific Journal publication of the toxicity study on glyphosate spurs US to reevaluate synthetic pesticides, but did not test glyphosate. USDA Avoids Analyzing Glyphosate Residues on Food for Annual Report January 11, 2016

<http://usrtk.org/pesticides/usda-avoids-analyzing-glyphosate-residues-on-food-for-annual-report/>

Also see **GMO Toxicology** and **Synthetic Pesticides Toxicology** for more information.

GMO Politics - Not Equivalent

- Organics vs Conventional Produce Report

60 Percent More Antioxidants ... 50 Percent Less Cadmium - international team of researchers from Newcastle University in the UK looked at 343 peer-reviewed studies comparing organic and conventional crops, and came to the conclusion that organic produce is higher in antioxidants, lower in toxic heavy metals and much less contaminated with pesticide and herbicide residues.

<http://www.theepochtimes.com/n3/858156-organic-food-contains-up-to-60-percent-more-antioxidants/>

- 2012 Corn Comparison Report by Profit Pro - Study reveals GMO corn to be highly toxic

<https://www.rt.com/usa/toxic-study-gmo-corn-750/>

- GMO nutritional comparison Chart - Dr. Huber is another researcher who has been relentlessly attacked for his studies on GMO.

GMO Corn has 14 ppm of Calcium and NON GMO corn has 6130 ppm. 437 X more.

GMO corn has 2 ppm of Magnesium and NON GMO corn has 113ppm. 56 X more.

GMO corn has 2 ppm of Manganese and NON GMO corn has 14ppm. 7X more.

Our water levels allow glyphosate 7,000X higher than what has been shown to be toxic in animals. This (GMO) corn has 13 ppm! 130,000 times higher than what is toxic in water... .97 ppm of formaldehyde ... toxic in ingestion to animals. This (GMO) corn has 200X that

http://www.momsacrossamerica.com/stunning_corn_comparison_gmo_vs_non_gmo

- Studies - GMO animal feed, toxicity and allergens - international team led by Newcastle University has shown that organic crops are up to 69% higher in a number of key antioxidants than conventionally-grown crops. "

www.ncl.ac.uk/press/news/2015/10/organicvsnon-organicfood

- Composition differences between organic and conventional meat; a systematic literature review and meta-analysis

<http://gmwatch.org/news/latest-news/16718>

- Organic cows live at least twice as long 1/2 the vet bills as GMO fed cows Side by side GMO feed vs organic experiment

"We can now strongly reinforce the argument for organic transition, since we are able to present reasons why organic cows live at least twice as long as GMO fed cows and organic cow veterinary bills are approximately half those of GMO farm cows."

<http://cerestrust.org/gmo-vs-organic-diet-effects-on-dairy-cows/>

- Safety Assessments of GMOs Are Non-Existent! GMO soy - not equivalent

www.organicconsumers.org/news/safety-assessments-gmos-are-non-existent

- New multi-stacked and novel food technologies not substantially equivalent. The sham of substantial equivalence

<http://earthopen-source.org/gmomythsandtruths/sample-page/2-science-regulation/2-1-myth-gm-foods-strictly-tested-regulated-safety/>

- "No scientific consensus on GMO safety" statement published in peer-reviewed journal The joint statement developed and signed by over 300 independent researchers - Scientists Declare No Consensus on GMO Safety A group of 93 scientists worldwide deplore the disinformation over the safety of GMOs and expose the lack of empirical and scientific evidence on which the false claims of "consensus" on safety are being made"

<http://www.ensser.org/media/0115/>

GMO Corruption

GMO Coverups

GMO Fraud

GMO Lawsuits

GMO Corruption - GMO Coverups

- Companies Put Restrictions On Research into GM Crops "... two dozen scientists representing public research institutions in 17 corn-producing states told the U.S. Environmental Protection Agency (EPA) that the companies producing genetically modified (GM) seed "inhibit public scientists from pursuing their mandated role on behalf of the public good" and warned that industry influence had made independent analysis of transgenic crops impossible. "

http://e360.yale.edu/feature/companies_put_restrictions_on_research_into_gm_crops/2273/

- New multi-stacked and novel food technologies not substantially equivalent. Avoiding bothersome regulation - Not just a legal question - Unintended consequences

<http://beyond-gm.org/gmo-or-gm-no-how-will-the-eu-regulate-new-plant-breeding-technologies/>

- WHO Glyphosate Report Ends Thirty Year Cancer Cover Up

<http://sustainablepulse.com/2015/03/26/who-glyphosate-report-ends-thirty-year-cancer-cover-up/#.VrJl5uYuh8E>

- Fully aware of its potential to cause cancer for at least 35 years. If they had acted in a precautionary fashion back then, instead of turning a blind eye to scientific malpractice (16), glyphosate would never have been licensed, and thousands of lives might have been saved."

www.gmfrecymru.org/documents/monsanto_knew_of_glyphosate.html

- Monsanto Knew of Glyphosate / Cancer Link 35 Years Ago - more links and reference:

www.globalresearch.ca/monsanto-knew-of-glyphosate-cancer-link-35-years-ago/5443741

- Roundup and Birth Defects: Is the Public Being Kept in the Dark? The document is authored by eight experts from the fields of molecular genetics, agro-ecology, toxico-pathology, scientific ethics, ecological agriculture, plant genetics, public health and cell biology. - Chaco, Argentina is also a region of intensive GM soy production and heavy glyphosate use. In the last decade, coincident with expansion of GM soy production, birth defects have increased threefold and cancer rates have increased fourfold. (Bans ensued)

www.truth-out.org/opinion/item/25122-exposing-monsanto-herbicide-linked-to-birth-defects-the-vitamin-a-connection

- Researchers at the Rowett Institute in Aberdeen showing the harm of gene silencing GMO was relentlessly attacked, demonized and gagged despite "To this day they have never found anything fundamentally wrong with his research, and none of them have ever sought to repeat it" Follow up studies showing the same toxic results from gene silencing gmo confirm his findings:

... Flavr Savr GM tomato had shown (10) that when it was fed to rats some of them developed "gross lesions" or "gastric erosions" in their stomachs. These have been described as "pinprick bleedings" and linked to cellular changes which clearly needed to be explained.

<http://www.gmfrecymru.org/documents/pusztai-fifteen-years-too-late.html>

- The validity of the (GMO potato) work was also confirmed by an independent team of 23 top scientists from around the world who reviewed the research, as well as The Lancet, that published it. ... "scientists from 13 countries state that their independent examination of all the published data shows that Dr Pusztai ... should never have been attacked..."

<http://www.theguardian.com/environment/1999/feb/12/food.gm>

- "All of the Monsanto Trade Secret studies on Glyphosate were sealed as Trade Secret by EPA at Monsanto's request in 1981... no open access to these docs, ... quote" - Sealed "Proprietary" Glyphosate Study - 1981 - submitted by Monsanto to EPA Addendum to Pathology Report for a Three-Generation Reproduction Study in Rats with Glyphosate.

A Lifetime Feeding Study of Glyphosate " document not available but cited in EPA 1986 Memo: EPA Roundup cancer studies: only Monsanto unpublished studies used -Follow-up study: McConnell, R. "A chronic feeding study of glyphosate (Roundup technical) in mice: pathology report on additional kidney sections". increased incidence of thyroid C-cell carcinomas in females; and increased incidence of interstitial cell (Leydig cell) testicular tumors.

www.safesayswho.com/roundup-the-studies-for-cancer-held-at-the-epa-only-monsanto/

-The Goodman Affair: Monsanto Targets the Heart of Science - Corruption of Scientific Journal - 2009, the scientific publishing giant Elsevier was found to have invented an entire medical journal, complete with editorial board, in order to publish papers promoting the products of the pharmaceutical manufacturer Merck. Merck provided the papers, Elsevier published them, and doctors read them, unaware that their ... Journal of Bone and Joint Medicine was... a stuffed dummy.

... "in early 2013 the FCT editorial board acquired a new "Associate Editor for biotechnology", Richard E. Goodman. This was a new position, seemingly established especially for Goodman in the wake of the "Seralini affair". The journal subsequently retracted the Seralini Study based on fraudulent and forged accusations. (see lawsuits below)

<https://www.independentsciencenews.org/science-media/the-goodman-affair-monsanto-targets-the-heart-of-science/>

- Prof. Seralini did the first long term study on glyphosate / roundup and GMO. Elsevier journal appointed biotech insider Richard E Goodman as editor who pulled his study a year after it's publication. The journal was boycotted by 1400 scientists for "violating code and ethics of science" in it's retraction. http://www.i-sis.org.uk/Open_letter_to_FCT_and_Elsevier.php

- The Seralini Study has been republished and should be the gold standard for safety testing of these synthetic chemical and GMO technologies. Seralini has won a forgery lawsuit for forged signatures on the false accusations attempting to debunk the Roundup / GMO Long Term Study.

See the study results, keep up to date:

www.gmoseralini.org/en/

- "Inert" ingredients in Round up "can be 1000x as toxic" than glyphosate alone

Follow-up Interview with Prof. Seralini: Video

www.youtube.com/watch?v=9ARD0INBXDA

- Seralini's team wins defamation and forgery court cases on GMO and pesticide research
Criminal Chamber of the High Court of Paris fined *Marianne* magazine and its journalists for public defamation of a public official, and public defamation of the researchers and CRIIGEN, chaired by Dr. Joel Spiroux de Vendomois.
www.gmoseralini.org/seralinis-team-wins-defamation-and-forgery-court-cases-on-gmo-and-pesticide-research/

- Forgery - Marc Fellous, former chairman of France's Biomolecular Engineering Commission (BEC), has been indicted for "forgery" and "the use of forgery," in a libel trial that he lost to Prof Gilles-Eric Seralini. Fellous had used or copied the signature of a scientist, without his agreement, to argue that Seralini and his co-researchers were wrong in their reassessment of Monsanto's own rat feeding studies.
www.naturalnews.com/053378_Seralini_Monsanto_fraudulent_scientists.html

- Monsanto's Tobacco Files
University Scientists Caught Conspiring With Biotech Industry to Manipulate Public on GMOs
<http://ecowatch.com/2015/09/12/scientists-conspire-monsanto-gmos/>

- Transgenic High-Lysine Corn LY038 Withdrawn After EU Raises Safety Questions
A Monsanto/Cargill joint venture has quietly withdrawn its application for high-lysine transgenic corn after EU regulators on the European Food Safety Agency (EFSA) GMO panel raised questions about its safety for human consumption.
<https://www.independentsciencenews.org/news/transgenic-corn-ly038-withdrawn/>

- Syngenta Paid for Favorable - Secret Payments to "Independent" Allies Don Coursey, Ameritech Professor of Public Policy at the University of Chicago collected \$500 an hour from Syngenta to write economic analyses touting the necessity of atrazine www.environmentalhealthnews.org/ehs/news/2013/atrazine-page2

- German Farmer harassed and persecuted by Syngenta for years for finding its Bt-maize 176 highly toxic to his cows www.i-sis.org.uk/First_Commercial_Bt-Maize_was_Toxic.php

- By creating obstacles to independent research on its products, Monsanto makes it harder for farmers and policy makers to make informed decisions that can lead to more sustainable agriculture.
www.ucsus.org/food_and_agriculture/our-failing-food-system/genetic-engineering/suppressing-research.html

- "GMO is safe" report on CTV News cites Monsanto profiteer "declaration" as news:
<http://www.ctvnews.ca/sci-tech/genetically-altered-food-safe-but-not-curing-hunger-report-finds-1.2905848>

CTV source for their "GMO is safe" report source "Astroturf" group - "FINANCIAL SUPPORT:... The National Academies of Science, Engineering and Medicine funded by: "...BP America, Dow Chemical Company, E.I. du Pont de Nemours & Co., IBM Corporation, Merck and Company, Inc., Monsanto Company, and Shell Oil Companies Foundation..."
<http://www.nap.edu/read/4917/chapter/1>

-GMOs Safe to Eat, Says Research Group That Takes Millions From Monsanto
"Agribusiness companies like Monsanto have an outsized role at our public universities, at peer-reviewed journals, and the NRC," Hauter concluded. "We won't have good public policy on new technologies like GMOs until these rampant conflicts of interest are exposed."
www.commondreams.org/news/2016/05/18/gmos-safe-eat-says-research-group-takes-millions-monsanto

- The US (embassy) began lobbying in favor of the pesticide manufacturer, Monsanto, six months after President ... ordered the Ministry of Health initiated an official investigation on the possible harmful effects of the pesticide. If the study shows the pesticide affects the health of the population, it will serve to limit, and eventually ban, the use of glyphosate.
www.argentinaindependent.com/currentaffairs/newsfromargentina/us-embassy-lobbies-for-pesticide-use-in-argentina/

- Cartoonist fired after 21 years of service to Farm News for exposing: "In year 2015 the CEOs of Monsanto, DuPont Pioneer and John Deere combined made more money than 2,129 Iowa farmers." "I did my research and only submitted the facts in my cartoon."
<http://www.kcci.com/news/longtime-iowa-farm-cartoonist-fired-after-creating-this-cartoon/39337816>

- Mainstream Media avoids GMO. People get fired for outing their keepers paycheck.
www.huffingtonpost.com/ken-roseboro/biotechs-assault-on-balan_b_5432699.html
Video: www.youtube.com/watch?t=23&v=LsglbfZLc_0

- Facing hundreds of millions of dollars in lawsuits ... Monsanto last year received a legislative gift from the House of Representatives, a one-paragraph addition to a sweeping chemical safety bill that could help shield it from legal liability for a toxic chemical only it made...
<http://www.nytimes.com/2016/03/01/business/monsanto-could-benefit-from-a-chemical-safety-bill.html>

- EPA reevaluation of glyphosate Oct 15 report posted then pulled from the web.
Independent studies show the results are not dose dependent. A little or a lot caused the same damage. The cited study that concludes glyphosate has no effect because the damage was found in all doses. The controls had no tumours at all, so they decided glyphosate was safe because this was exceptional.
PDF: <http://src.bna.com/eAi>

- The U.S. House of Representatives Committee on Science, Space and Technology has launched an investigation into the 'mistaken' release of a draft report by the U.S. EPA on the World's most used herbicide, glyphosate.

<http://sustainablepulse.com/2016/05/08/us-house-committee-launches-investigation-into-epa-glyphosate-cover-up-2>

Investigation:

<https://science.house.gov/sites/republicans.science.house.gov/files/documents/...re CARC.pdf>

- Tobacco and GMO peddlers are the same people - Tobacco Institute's PR firm tasked with reviving Monsanto's image & spinning Bayer

- Two Syngenta PR firms worked for the tobacco industry - Top operative against GMO labeling was outside counsel to Philip Morris
Top operative against GMO labeling - "No on 37" opposition research firm worked for tobacco giant Altria
Phillip - Top operative against GMO labeling was outside counsel to Philip Morris
"No on 37" opposition research firm worked for tobacco giant Altria

<http://usrtk.org/what-the-agricultural-and-tobacco-industries-have-in-common-pr-firms-operatives-tactics/>

- Biofuel Watch "Civil society groups call on UN Agency to withdraw misleading report about second generation (GMO) biofuel market ..highlights four specific examples of gross factual inaccuracies found in the report - "We are deeply concerned ... governments could be misled by UNCTAD's flawed report... UNCTAD's report is based virtually entirely on industry reports and claims from trade digests, not on factual analysis. This is unacceptable for a UN organization. The report must be withdrawn."

<http://www.biofuelwatch.org.uk/2016/unctad-biofuels-letter-pr/>

We have just scratching the surface here. I'm sure there is plenty more cases.

GMO Corruption - GMO Fraud

- Altered Genes, Twisted Truth Steven Druker exposed the fraudulent practices and deceptions that led to the commercialization of GM food and crops in the US

www.globalresearch.ca/altered-genes-twisted-truth-monsantos-silence-is-deafening/5469745

- DuPont GMO Canola "safety study" control group were fed GMOs laced with Roundup. Are substantial equivalence & safety studies for GM soy fraudulent?"

www.examiner.com/article/are-substantial-equivalence-safety-studies-for-gm-soy-fraudulent

- The Problem with the Safety of Roundup Ready Soybeans"

www.psrast.org/subequa.htm

- Monsanto 'faked' data for approvals claims its ex-chief - "The Central Insecticide Board ... simply accepted foreign data supplied by Monsanto. They did not even have a test tube to validate the data and, at times, the data itself was faked," Jagadisan said.

<http://indiatoday.intoday.in/story/Monsanto+'faked'+data+for+approvals+claims+its+ex-chief/1/83093.html>

- Four industry-sponsored GMO feeding studies are probably fraudulent

www.gmfreecymru.org/pivotal_papers/industry-sponsored-gmo.html

- Is Genetically Engineered Food A Fraud? National Geographic

<http://news.nationalgeographic.com/2015/04/150422-genetically-modified-food-agriculture-health-ngbooktalk/>

- The farce of GMO industry safety studies Industry manipulated "fraudulent" GMO studies: Control animals fed GMOs and pesticides makes industry GM canola safety study worthless

<http://us6.campaign-archive1.com/?u=29cbc7e6c21e0a8fd2a82aeb8&id=665aee1b95&e=ce6aacd677>

- GMO patent holders - Cooking the studies using ineffective outdated practices, cooking allergen expressing GMO corn "4x as long as protocol" pasteurizing BGH milk up to 120 times longer than normal - unable to destroy more than 19%, they then spiked the milk with huge amounts of the hormone and repeated the long pasteurization to destroy 90%. FDA then reported pasteurization destroys 90%) To demonstrate BGH did not interfere with fertility, patent holder added cows to the study that were pregnant prior to the injection. To prove novel proteins broke down in the gut, thousands of times the digestive enzymes and much stronger acids were added compared to the World Health Organization recommendations.

www.regulations.gov/#/documentDetail;D=APHIS-2007-0016-0101

- Whistleblower Speaks Out Against USDA, Corruption & Systemic Pesticides

www.honeycolony.com/article/whistleblower-speaks-out-against-usdasystemic-pesticides-corruption

- Many European Pesticide Approvals Are "unlawful" Says EU Ombudsman

Many current pesticides in the European Union ... approved illegally the Ombudsman of the EU has said. This judgment (pdf) was reached... following an official complaint against the European Commission's Directorate responsible for public health and consumer safety

www.independentsciencenews.org/news/many-european-pesticide-approvals-are-unlawful-says-eu-ombudsman/

- Science Journal Pulls 60 Papers in Peer-Review Fraud

<http://www.nytimes.com/2014/07/11/science/science-journal-pulls-60-papers-in-peer-review-fraud.html>

- GMO approvals in Brazil are illegal and not science-based says regulator ... fail to conform with legal norms and twist science in the interests of GM companies, says regulator ... food safety advisory body to the Brazilian president, by Leonardo Melgarejo, a member of Brazil's GMO regulatory body CTNBio... exposes CTNBio's negligence in assessing them for safety... unscientific tricks ... in its evaluations of GM foods ... all releases of GMOs in Brazil thus far are illegal because they fail to conform with legal norms set by the regulators.

<http://www.gmwatch.org/news/archive/2013/14872-all-gmo-approvals-in-brazil-are-illegal-and-not-science-based-regulator>

- "audits by FDA and EPA soon found that most of the thousands of industry safety studies used to approve pesticide registrations were fraudulent ... not a single pesticide registration was to be canceled due to fraudulent or nonexistent test data.... "The unspoken understanding in this outsourcing of government functions has been the near certainty of finding industry data satisfactory – all the time."

www.independentsciencenews.org/health/poison-spring-the-secret-history-of-pollution-and-the-epa/

- EU Food and Environment Research Agency commissioned a study claiming to show that bees were not being harmed. It was so flawed that no journal would take it. The lead author soon left to work for Syngenta. (also see "politics")

www.theguardian.com/environment/2013/jul/26/government-bee-scientist-pesticide-firm

- "patent given to Monsanto by the US Patent Office for an antibiotic with an effective dose of 1 ppm. Monsanto insisting that their herbicide is innocuous one day and patenting it as a potent antibiotic the next day is a powerful metaphor of the current regulatory system in Canada. Implications are huge. "

<http://www.google.com/patents/US7771736>

- NGOs join forces to demand legal action for fraud against Monsanto, BfR and EFSA (Glyphosate re- authorisation) Brussels, 2nd of March 2016. Six environmental NGOs (Global 2000, PAN Europe, PAN UK, Generations Futures, Nature et Progrès Belgique and Wemove.EU) from five European countries are filing today a formal complaint against those responsible for the assessment of glyphosate in Europe, for denying the cancer causing effects of glyphosate and getting its European market license renewed.

<http://www.pan-europe.info/press-releases/2016/03/2-march-2016-glyphosate-re-authorisation-ngos-join-forces-demand-legal-action>

Ex-Monsanto appointment to editor of Elsevier scientific journal, new editor retracts Seralini GMO / Roundup Study one year after it's publication that showed the dangers of GMO and Round-up.

- Elsevier retraction of Seralini Study "Violates Codes & Ethics of Science" Boycott of Elsevier ensues.

Open Letter on Retraction and Pledge to Boycott Elsevier 1400+ Scientist Boycott Elsevier for Retracting Seralini Study

www.i-sis.org.uk/Retracting_Serallini_study_violates_science_and_ethics.php

- Seralini GMO / Round-up Study - Republished Seralini, Environmental Sciences Europe study: long-term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize

<http://sustainablepulse.com/2014/06/24/reactions-republication-landmark-seralini-gmo-study>

- Toxicity of GMOs and Pesticides: Seralini's Team Wins Defamation Case and Seralini Wins Forgery Court Cases against defamatory and fraudulent accusations about their GMO / Roundup Study.

www.globalresearch.ca/toxicity-of-gmos-and-pesticides-seralinis-team-wins-defamation-and-forgery-court-cases/5492480

- Publication bias: the cancer of evidence-based medicine

<https://pharmakondotme.wordpress.com/2012/12/07/publication-bias-the-cancer-of-evidence-based-medicine/>

GMO Corruption - GMO & Glyphosate Lawsuits

Ex-Monsanto appointment to editor of Elsevier scientific journal, new editor retracts Seralini GMO / Roundup Study one year after it's publication that showed the dangers of GMO and Round-up.

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www.i-sis.org.uk/Retracting_Serallini_study_violates_science_and_ethics.php

- Seralini GMO / Round-up Study Republished -

- Republished Seralini, Environmental Sciences Europe study: long-term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize

<http://sustainablepulse.com/2014/06/24/reactions-republication-landmark-seralini-gmo-study>

- Toxicity of GMOs and Pesticides: Seralini's Team Wins Defamation Case and Seralini Wins Forgery Court Cases against defamatory and fraudulent accusations about their GMO / Roundup Study.

- Publication bias: the cancer of evidence-based medicine

<https://pharmakonotme.wordpress.com/2012/12/07/publication-bias-the-cancer-of-evidence-based-medicine/>

- Industry GMO How to Use Liability Loopholes to Win Lawsuits:

50+ lawsuits for labelling GMO "natural" in the US have failed due to lack of govt. definition and traceability.

"reasonable consumer" standard ... protection claims ... argument for dismissal ... use the lack of a clear, definite understanding of "natural," and the FDA's own refusal to formally define the term, to challenge the plausibility of a plaintiff's allegation ... "etc.

<http://www.packagingstrategies.com/ext/resources/files/All-Natural-Article-3.pdf>

- Biotech has been criminally charged for denying knowledge that its GMO Bt corn kills livestock

<http://naturalsociety.com/syngenta-charged-over-covering-up-animal-deaths-gm-corn>

- Syngenta Charged for Covering up Livestock Deaths from GM Corn

www.i-sis.org.uk/Syngenta_Charged_for_Covering_Up_Livestock_Deaths_from_GM_Corn.php

- In the US, more lawsuits for mislabeling GMO as natural. By definition, Natural means existing in or caused by nature; not made or caused by human kind. Kashi, Naked Juice, now Smuckers.

www.foodnavigator-usa.com/Regulation/Smucker-to-settle-lawsuit-over-all-natural-claims-on-GMO-Crisco-oils

- GMO lawsuit video: www.youtube.com/watch?v=tMSTkuJKsSI

- Dow Subsidiary To Pay \$2 Million For Making False Safety Claims In Pesticide Ads

Attorney General Spitzer today announced that Dow AgroSciences, LLC, a subsidiary of the Dow Chemical Company, will pay a \$2 million penalty for illegally advertising safety claims about its pesticide products in New York between 1995 and 2003.

<http://www.ag.ny.gov/press-release/dow-subsidiary-pay-2-million-making-false-safety-claims-pesticide-ads>

- FAILURE TO WARN ROUNDUP CLASS ACTION LAWSUITS As a result of Monsanto's failure to thoroughly research glyphosate or adequately warn users the agricultural community or the medical community financial comp. may be available through a Roundup lawsuit.

www.aboutlawsuits.com/roundup/

- Portland Becomes 7th City to Sue Monsanto Over Monsanto PCB Contamination

<https://ecowatch.com/2016/03/17/portland-sue-monsanto-pcb/>

- "Documents show Monsanto knew ... 1969 that PCBs led to contamination of fish, oysters and birds... company realized its product might cause "global contamination ... continued to peddle its product ... "choosing profits over environmental health." ... "

PCB remained on the market for another decade.

<http://portlandtribune.com/st/298493-175575-portland-to-sue-monsanto-for-pcb-contamination->

- Syngenta billion-dollar class actions in three states, claiming China is rejecting U.S. corn shipments because Syngenta released a genetically altered variety before the crop was approved for export to China.

www.courthousenews.com/2014/10/06/72147.htm

- Monsanto Sued - Deliberate Falsification to Conceal that (Roundup) Harmful to Humans & Animals

Class Action Lawsuit Will Help Break Monsanto for Making False Claims . . . stomach and bowel problems, indigestion, ulcers, colitis, gluten intolerance, sleeplessness, lethargy, depression, Crohn's Disease, Celiac Disease, allergies, obesity, diabetes, infertility, liver disease, renal failure, autism, Alzheimer's, endocrine disruption, .."

www.globalresearch.ca/monsanto-sued-for-deliberate-falsification-to-conceal-that-glyphosate-roundup-is-harmful-to-humans-and-animals/5450548

- Monsanto sued in Los Angeles County for false advertising

www.examiner.com/article/monsanto-sued-los-angeles-county-for-false-advertising

- California moved to label roundup cancer causing so Monsanto sues to keep it off California list of carcinogens

www.reuters.com/article/us-usa-monsanto-glyphosate-idUSKCN0UZ2RN

- Lawsuit: "We believe there is a great deal of evidence that suggests Monsanto was clearly aware of the hazards presented by glyphosate" said environmental attorney Thomas Sims of Baron & Budd. "Whenever a corporation introduces a harmful product to the public, it must be held responsible for any illnesses that product causes.""

www.businesswire.com/news/home/20160125006354/en/

- Coffee Farmers Sue Monsanto for Hiding Cancer-Causing Impact of Glyphosate The Kona coffee lawsuit is one of many glyphosate-related lawsuits Monsanto is currently staring down. Reuters reported in October that personal injury law firms around the U.S. are gathering numerous plaintiffs to build mass tort actions against the agribusiness giant.

<http://ecowatch.com/2016/02/09/monsanto-sued-coffee-farmers/>

- French Court Finds Monsanto Guilty of Chemical Poisoning! French court confirms Monsanto liable in chemical poisoning case www.reuters.com/article/us-france-monsanto-court-idUSKCN0RA1UM20150911

- Biotech sues the EU for banning neonics - The EU banned these bee-killers in May 2013, after a massive public campaign and a clear scientific finding from the European Food Safety Authority that neonics pose huge risks to bee populations.

1,366,864 signatures - Sign the petition now to tell Bayer, BASF and Syngenta to drop their aggressive lawsuits!
<http://action.sumofus.org/a/bayer-bees-lawsuit/13/2/?akid=18169.11077840.ENn3E9&rd=1&sub=fwd&t=2>

- US - Political Misdirect: Glyphosate Lawsuit: "the complaint is pre-empted by federal regulation".. "The judge never determined whether the label statement is true or false" he said."... the truth doesn't matter to the courts nor Monsanto."

www.capitalpress.com/Nation_World/Nation/20160114/judge-rejects-glyphosate-labeling-lawsuit

- GMO Salmon - Repeat violations

www.theguardian.com/lifeandstyle/2014/oct/29/panama-regulators-could-slow-us-approval-of-gm-salmon

- Lawsuit: Emergency GMO Salmon lawsuit: "The fallout from this decision will have enormous impact on the environment," said Andrew Kimbrell, executive director of the Center for Food Safety (CFS). The organization was left with no other choice, he added, "but to file suit to stop the introduction of this dangerous contaminant."

www.commondreams.org/news/2015/11/19/emergency-lawsuit-filed-fight-fda-approval-frankenfish

- GMO Salmon Joint Lawsuit - FDA failed to complete consultations with federal agencies that enforce the Endangered Species Act.. egg-producing facility on Prince Edward Island was problematic ... the company has claimed there are no wild salmon in the waters off Prince Edward Island ... federal researchers found Atlantic salmon within a mile of the facility ... It's 120 feet from the sound, and that's not deep inland,... large hurricanes in the past, similar to [superstorm] Sandy... whole facility could be washed out." ... company has claimed there are no wild salmon in the waters off PEI,... federal researchers found Atlantic salmon within a mile of the facility ... the FDA has acknowledged that up to 5 percent of the salmon produced in Canada may not be sterile..."

Center for Food Safety and Earthjustice, includes Pacific Coast Federation of Fishermen's Associations, Institute for Fisheries Resources, Golden Gate Salmon Association, Kennebec Reborn, Friends of Merrymeeting Bay, Ecology Action Centre, Food & Water Watch, Center for Biological Diversity, Friends of the Earth, Cascadia Wildlands, and Center for Food Safety.

<http://www.takepart.com/article/2016/04/01/gmo-salmon-lawsuit>

www.centerforfoodsafety.org/files/2016-3-30-dkt-1--pls--complaint_94703.pdf

www.centerforfoodsafety.org/press-releases/4317/lawsuit-challenges-fdas-approval-of-genetically-engineered-salmon

- Our clients are asking the court to find that the toxicity assessment of Aquabounty's proposal was incomplete and unlawful.

www.ecojustice.ca/case/genetically-modified-salmon-litigation/

- Biotech said their GMO salmon was sterile. It is not. Canada sued over approval of GM salmon scheme

www.theguardian.com/environment/2015/nov/17/canada-sued-genetically-modified-salmon-scheme-approval-environmental-groups

- GMO salmon contamination - not sterile: Industry states an "unusual storm" released all the gmo salmon. Fact checking, there was no storm. "All of these fish were lost... intended that the fish, subject to regulatory approval, would be marketed during the first half of 2009."

www.outsideonline.com/1750276/genetically-engineered-salmon-could-soon-run-wild

- US firm's plan to produce GM salmon eggs in Canada and ship them to Panama threatens contamination of wild fish in a "huge live experiment", lawsuit argues

www.theguardian.com/environment/2015/nov/17/canada-sued-genetically-modified-salmon-scheme-approval-environmental-groups

- Food Advocacy Group to Sue FDA Over Controversial Approval of GMO Salmon

<http://ecowatch.com/2015/11/20/fda-sued-gmo-salmon/>

- U.S. workers sue Monsanto claiming herbicide caused cancer

<http://in.reuters.com/article/us-monsanto-lawsuit-idINKCN0RT2L220150929>

- Lawsuit Targets EPA's Failure to Release Public Records on Toxic Herbicide

www.biologicaldiversity.org/news/press_releases/2016/enlist-duo-02-03-2016.html

- USDA sued for Withholding Genetically Engineered Crop Records This is the fourth time CFS has had to sue APHIS to compel compliance with FOIA, and is the most extensive challenge to APHIS's pattern of unreasonable delays to date.

<http://www.centerforfoodsafety.org/press-releases/4022/center-for-food-safety-sues-department-of-agriculture-for-withholding-genetically-engineered-crop-records>

- 2016 - class action suit against the Monsanto - Superior Court of California, Los Angeles County. " It accuses the company of false advertising for its implied claims that the herbicide, Roundup, is safe for humans. ... kills off our gut bacteria, glyphosate is linked to stomach and bowel problems, indigestion, ulcers, colitis, gluten intolerance, insomnia, lethargy, depression, Crohn's Disease, Celiac Disease, allergies, obesity, diabetes, infertility, liver disease, renal failure, autism, Alzheimer's, endocrine disruption ... kills gut bacteria... compromises our digestion, metabolism, and vital immune system functions... detectable quantities accumulate in our tissues ... urine, blood ... breast milk... 75% of rainwater samples."

<http://healthcareinformations.com/index.php/2016/03/15/lawsuit-accuses-monsanto-lying-safety-roundup/>

- GMA Found Guilty of \$11 Million Cover Up in GMO Labeling Fight - violated Washington campaign finance disclosure laws by shielding the identities of major corporate donors funding efforts to defeat a food labeling initiative in Washington.

www.sott.net/article/314240-GMO-labeling-fight-Grocery-Manufacturers-Association-found-guilty-of-11-million-cover-up

- Seralini - defamation lawsuit for the false accusation by industry. (also see coverups) Seralini has won a forgery lawsuit for forged signatures on the false accusations attempting to debunk the Roundup / GMO Long Term Study.

See the study results, keep up to date: www.gmoseralini.org/en/

- "Inert" ingredients in Round up "can be 1000x as toxic" than glyphosate alone Follow-up Interview with Prof. Seralini: Video

www.youtube.com/watch?v=9ARD0INBXDA

- Seralini's team wins defamation and forgery court cases on GMO and pesticide research Criminal Chamber of the High Court of Paris fined *Marianne* magazine and its journalists for public defamation of a public official, and public defamation of the researchers and CRIIGEN, chaired by Dr. Joel Spiroux de Vendomois.

www.gmoseralini.org/seralinis-team-wins-defamation-and-forgery-court-cases-on-gmo-and-pesticide-research/

- Forgery - Marc Fellous, former chairman of France's Biomolecular Engineering Commission (BEC), has been indicted for "forgery" and "the use of forgery," in a libel trial that he lost to Prof Gilles-Eric Seralini. Fellous had used or copied the signature of a scientist, without his agreement, to argue that Seralini and his co-researchers were wrong in their reassessment of Monsanto's own rat feeding studies.

www.naturalnews.com/053378_Seralini_Monsanto_fraudulent_scientists.html

- New US House bill could give Monsanto permanent immunity from liability for injuries caused by PCBs. Republicans in (US) Congress have inserted a clause into the Toxic Substances Control Act (TSCA) reauthorization bill that would effectively exempt Monsanto from liability for injuries caused by PCBs.

<http://www.care2.com/causes/portland-becomes-7th-city-to-sue-monsanto-over-pcb-contamination.html>

- Argentinian Federal Judge Accepts Lawsuit to Ban GMOs and Pesticides

<http://sustainablepulse.com/2015/06/22/argentinian-federal-judge-accepts-lawsuit-to-ban-gmos-and-pesticides>

- Environmental groups sue over federal permits for neonics The federal government is being taken to court for approving the use of neonicotinoid pesticides that have been blamed for the "catastrophic" decline of some bee populations in Canada.

<http://www.theglobeandmail.com/news/national/environmental-groups-sue-over-federal-permits-for-neonics/article30766776/>

- The Brazilian Ministry of Justice has issued fines against six food manufacturers for failing to label GMO - Nestle, Pepsico and Bimbo fines ranging from US\$277,400 to just over US\$1 million. In total, the fines amount to an estimated US\$3 million. <http://www.telesurtv.net/english/news/Brazil-Nestle-Fined-for-Concealing-Use-of-GMOs-20160107-0041.html>

- The attempt to "disappear" a critical and controversial study on a GMO commercialized in the EU demonstrates the growing influence of lobbyists on processes of expertise and is "a threat to food safety", a group of elected European representatives and scientists charged in Brussels on Thursday.

<http://www.gmoseralini.org/seralini-study-retraction-intended-to-shut-down-possibility-of-long-term-gmo-tests-forever/#sthash.YEG9Y4a.dpuf>

- PepsiCo Inc.'s Quaker Oats has been accused of false advertising by a group of consumers in New York, California and Illinois, who have filed a class action lawsuit challenging the company's claim of being "100 Percent Natural" despite having traces of the weedkiller glyphosate found in its famous oatmeal.

<http://ecowatch.com/2016/05/03/quaker-oats-glyphosate/>

<https://www.documentcloud.org/documents/2820643-Quaker-Oats-Class-Action-Complaint.html>

<http://www.bloomberg.com/news/articles/2016-05-02/pepsico-s-quaker-sued-for-not-flagging-pesticide-in-oatmeal>

- NGOs Sue Monsanto & EU Food Safety Watchdog Over (glyphosate) Pesticide

"Authorities have to act in the public interest ... This has not been the case for glyphosate Our analysis revealed serious breaches against the guidelines of cancer data analysis, which show the discrepancy between the (IARC) on the one hand, and Monsanto, BfR and EFSA on the other," said Global 2000 spokesman Helmut Burtscher."

<http://phys.org/news/2016-03-ngos-sue-monsanto-eu-food.html>

- Ecojustice ... launched a lawsuit that challenges the unlawful registrations of a number of pesticides containing two neonicotinoid active ingredients, Clothianidin and Thiamethoxam. Both have been linked to mass bee die-offs. - We're seeking a court order that will invalidate these registrations and protect pollinators from harm. The case could set an important precedent under the Pest Control Products Act for more rigorous review of toxic pesticides before they are registered for use in Canada.

<https://www.ecojustice.ca/pressrelease/environmental-groups-head-to-court-over-pollinator-killing-pesticides/>

GMO Farming

Failures & Economics

GMO Contamination

Superweeds

GMO Farming - Failures & Economics

- Failure to Yield: Evaluating the Performance of Genetically Engineered Crops 2009 Report "Traditional breeding outperforms genetic engineering hands down"

www.ucsusa.org/food_and_agriculture/our-failing-food-system/genetic-engineering/failure-to-yield.html#.VtT9Iebo3rQ

- 30 year study organic outperform GMO - A thirty-year study by the non-profit Rodale Institute The study showed that organic farming

outperformed conventional and GM farming in terms of profit, yields, drought resistance and more.

www.examiner.com/article/long-term-study-shows-organic-farming-outperforms-conventional-and-gm-farming

- The Post-GMO Economy - Modern Farmer

<http://modernfarmer.com/2013/12/post-gmo-economy/>

- Farmers Tripled Net Income Switching from GMO to Organic

<http://ecowatch.com/2015/11/21/soper-farms-switch-to-organic/>

- Multiple farmers see better health, higher birth rates in non-GMO fed livestock. Animals, given the choice, avoid GMO. - "Knoblock, who keeps extensive records of his operation, found that drug treatments for sicknesses were cut in half. Sow conception rates rose 80 to 90% ... size of hog litters increased ... Cattle deaths due to digestive problems or pneumonia have been cut in 1/2 ... decline in mastitis issues in cattle and goat herds, an increase in milk production as well as quality of milk. There is also better quality of eggs and poultry meat," ... health problems ... Roundup Ready GM corn and soy ... include reproductive problems in hogs and beef cows, botulism in dairy cows, and bloody bowels, rickets, and viral diseases in hogs.

<http://www.non-gmreport.com/articles/may2014/farmers-report-better-animal-health-non-gmo-feed.php>

- Organic cows live at least twice as long 1/2 the vet bills as GMO fed cows Side by side GMO feed vs organic experiment "We can now strongly reinforce the argument for organic transition, since we are able to present reasons why organic cows live at least twice as long as GMO fed cows and organic cow veterinary bills are approximately half those of GMO farm cows."

<http://cerestrust.org/gmo-vs-organic-diet-effects-on-dairy-cows/>

- Fields of Gold: GMO-Free Crops Prove Lucrative for Farmers

www.wsj.com/articles/fields-of-gold-gmo-free-crops-prove-lucrative-for-farmers-1422909700

- New Study Gives Genetically-Modified Crops a Failing Grade" Canadian Biotechnology Action Network (CBAN), indicates that

genetically-modified crops fail on multiple levels: they do not reduce pesticide use or protect biodiversity

www.care2.com/greenliving/new-study-gives-genetically-modified-crops-a-failing-grade.html

- American Farmers Abandoning GM Seeds "Non-GMO Crops are more Productive and Profitable".

www.globalresearch.ca/american-farmers-abandoning-genetically-modified-seeds-non-gmo-crops-are-more-productive-and-profitable/5366365

- Links between GM soy, Roundup and Health Damage in Pig Herd ... extended analysis of the connections ... between GM soy and health problems in his herd of breeding sows ... link between Roundup herbicide residues and stillbirths and malformations ... switching the feed in his breeding sow house to non-GM soy, health problems and medical costs have declined dramatically,... extra costs (for) non-GM soy feed are more than offset by reduced medication costs. The bottom line is that his farming operation is now more profitable than it was under the GM-soy feeding regime. <http://sustainablepulse.com/2012/04/24/pulse-news-2>

- Danish Farmer Documents Remarkable Changes From Switching to Non-GMO feed

Science in Society 64 Publication edited by Dr. Mae-Wan Ho, Prof. Peter Saunders, Dr. Eva Sirinathsinghji

<https://books.google.ca>

- GM Lags Behind Conventional in Drought-Resistant Maize Breeding Efforts

<http://sustainablepulse.com/2014/09/17/gm-lags-behind-conventional-drought-resistant-maize-breeding-efforts#.VtBnObo3rQ>

- "Wake Up Before It's Too Late" - New UN Report Calls for Dramatic Shift Back to Organic Agriculture - PDF links

included: <http://althealthworks.com/1366/wake-up-before-its-too-late-new-un-report-calls-for-dramatic-shift-toward-natural-agriculture/>

- Farmers choosing to grow non-GMO crops because of the "many failures" with GMOs.

<http://gmwatch.org/news/latest-news/87-news/archive/2015/15887-us-farmers-are-switching-to-non-gmo-crops-and-feed>

- U.S. Forced to Import Corn as Shoppers Demand Organic Food

www.bloomberg.com/news/articles/2015-04-15/romania-corn-imports-to-u-s-surge-as-shoppers-demand-organic

- Ten Reasons Why GE Foods Will Not Feed the World prepared by The CornerHouse, UK

www.organicconsumers.org/old_articles/ge/tenreasons.php

- GM maize MON810 doesn't give higher yields or reduce pest damage

www.gmwatch.org/news/latest-news/16589-gm-maize-mon810-doesnt-give-higher-yields-or-reduce-pest-damage

- GM crops have not increased yields - GM crops do not increase farmer incomes - GM crops lead to an increase in pesticide use and further harm to the environment PDF Report included:

<http://gmoinquiry.ca/feedingtheworld/>

- Brazilian farmers demand Monsanto refund their money for GMO crops that don't work

www.rt.com/usa/176836-brazil-farmers-gmo-refund/

- Spain: Farmers abandon Monsanto's GM maize en masse

The high cost and low yields of GM seed make major producers opt for non-GM maize

<http://www.gmwatch.org/news/latest-news/17093-spain-farmers-abandon-monsanto-s-gm-maize-en-masse>

- UN Report Says Small-Scale Organic Farming Only Way To Feed The World

www.huffingtonpost.com/2013/12/17/un-report-organic-farming_n_4461577.html

- "Non-GMO foods will account for 30% of US food and beverage retail sales by 2017

<https://u.osu.edu/foodinnovationcenter/tag/nutrition/page/2/>

- Herbicide and Insecticide Use on GMO Crops Skyrocketing While Pro-GMO Media Run Interference

www.huffingtonpost.com/david-bronner/herbicide-insecticide-use_b_5791304.html

- GMO Crops Mean More Herbicide, Not Less

www.forbes.com/sites/bethhoffman/2013/07/02/gmo-crops-mean-more-herbicide-not-less/#4e9ab2faa371

- Africa Burkina Faso has abandoned GM Bt cotton... citing the inferior lint quality of GM cultivars.. briefing traces the rapid decline of Burkina Faso's cotton crop following the introduction of GM Bt cotton.

<http://gmwatch.org/news/latest-news/16677-burkina-faso-abandons-gm-bt-cotton>

- New UN Report Calls for Dramatic Shift Back to Organic Agriculture

www.iatp.org/blog/201309/new-un-report-calls-for-transformation-in-agriculture

- Glyphosate Sprayed on GMO Crops Linked to Lake Erie's Toxic Algae Bloom

"For every acre of Roundup Ready soybeans and corn that you plant, it works out to be about one-third of a pound of P [phosphorus] coming down the Maumee," ... Approximately 1,000 metric tonnes (about 2.2 million pounds) of Roundup is applied in the Lake Erie watershed per year,

<http://www.ecowatch.com/glyphosate-sprayed-on-gmo-crops-linked-to-lake-eries-toxic-algae-bloom-1906543478.html>

- Monsanto GM Cotton Banned by Top African Producer of Crop "... Africa's biggest cotton grower is reducing the acreage for gm cotton this season until it's completely phased out in 2018 and replaced by conventional cotton, ... The nation's three cotton companies and the national cotton farmers' union will seek 48 billion CFA francs (\$82 million) in compensation for lost harvests from Monsanto..."

<http://www.bloomberg.com/news/articles/2016-04-14/africa-s-top-cotton-producer-stops-growing-monsanto-s-gm-seeds>

- Brazilian farmers demand refund for failed Monsanto GMO BT crops

<http://www.pnas.org/content/early/2014/03/12/1317179111>

<https://www.rt.com/usa/176836-brazil-farmers-gmo-refund/>

- The Failure of GE Papaya in Hawaii - PDF Report - Despite US citizens doubling their average consumption of fresh papaya... " decline of 28% since the GE papaya was introduced ... farmers now receive 35% less per kilogram ... gross value of Hawaii's fresh papaya crop dropper nearly 50% since GMO was introduced and never recovered. "averaged less than \$0.80 per kilo, at or only marginally above the production cost for many farmers."

<http://www.greenpeace.org/international/Global/international/planet-2/report/2006/5/FailureGEPapayainHawaii.pdf>

- BT GMO failure - Genetically modified corn, which produces anti-pest toxin, is no longer as efficient at killing the bugs. The resistance arose quickly, due to some extent, to farmers avoiding the simple, but profit-cutting precaution of crop rotation. The problem that may soon render null the economic and environmental benefits of GM maize, which produces the so-called *Bacillus thuringiensis* (Bt) toxin, was highlighted in a study published online in this week's Proceedings of the National Academy of Sciences.

<http://rt.com/usa/gm-corn-rootworm-resistance-642/>

- Farmers Lose Money Due to GMOs - study has confirmed that farmers who grow genetically engineered crops earn less money than farmers that don't. http://www.wakawfarmersmarket.org/show_news.php?n=14298 Also see [Lawsuits](#)

GMO Farming - Contamination

- New Study Failure of "Coexistence" Policy - Genetically Engineered Alfalfa Has Gone Wild

www.centerforfoodsafety.org/blog/4207/new-study-finds-genetically-engineered-alfalfa-has-gone-wild-exposing-failure-of-coexistence-policy

- Organic farmer loses accreditation from GMO contamination. Organic farmer forced to pay polluter despite Monsanto paying the GMO contaminator's court fees.

<https://au.news.yahoo.com/thewest/wa/a/31162770/farmer-must-pay-neighbours-legal-costs/>

"... plaintiffs were forced to sue preemptively to protect themselves from future accusations of patent infringement when Monsanto's genetically modified seed contaminates their crops, something which cannot be prevented once GM seeds are released... organic farmer contaminated by transgenic seed could be accused of patent infringement, but Monsanto has made such accusations before and is notorious for having sued hundreds of farmers," said Dan Ravicher, PUBPAT's Executive Director and Lecturer of Law at Benjamin N. Cardozo School of Law in New York.

www.huffingtonpost.com/alison-rose-levy/monsanto-lawsuit_b_842336.html

- New Study Failure of "Coexistence" Policy - Genetically Engineered Alfalfa Has Gone Wild

www.centerforfoodsafety.org/blog/4207/new-study-finds-genetically-engineered-alfalfa-has-gone-wild-exposing-failure-of-coexistence-policy

- GMO Contamination threatens international trade - 24 EU countries have reported contamination from a Canadian GM flax "This summer alone, Canada has managed to contaminate Europe's food with an illegal GM flax as well as authorize Monsanto's new eight-trait GM corn called 'SmartStax' in a way that does not meet European regulations or even UN food safety guidelines."

www.cban.ca/Press/Press-Releases/Trade-with-Canada

- Researchers, led by Aaron Gassmann, an entomologist at Iowa State University, found that GMO corn – specifically two of the three types of Bt corn – is no longer as efficient at killing the bugs. The resistance arose quickly, due to some extent, to farmers avoiding the simple, but profit-cutting precaution of crop rotation.

<http://www.pnas.org/content/early/2014/03/12/1317179111>

<https://www.rt.com/usa/176836-brazil-farmers-gmo-refund/>

- GMO contamination - "genetically engineered creeping bentgrass that escaped from field trials 13 years ago. farmers and irrigation district officials challenged USDA's recent agreement with Scotts Miracle-Gro Co. to manage a genetically engineered creeping bentgrass that escaped from field trials in 2003. Scotts was fined for the incidents and signed a consent agreement in 2007.

www.capitalpress.com/Oregon/20160302/farmers-challenge-usdas-gmo-bentgrass-plan

- Organic Farm Groups Sue Monsanto - "...plaintiffs were forced to sue preemptively to protect themselves from future accusations of patent infringement when Monsanto's genetically modified seed contaminates their crops, ... cannot be prevented once GM seeds are released..."

www.huffingtonpost.com/alison-rose-levy/monsanto-lawsuit_b_842336.html

- Illegal GM Wheat Contamination Discovered in US: Contamination Status in Canada is Unknown

www.cban.ca/Resources/Topics/GE-Crops-and-Foods-Not-on-the-Market/Wheat

- GMO rice contamination found in the Philippines Thailand, Vietnam slam doors against GE rice as contamination spreads further

- Earlier, Chinese rice exports to the EU were also found to be contaminated by illegal GE Bt63 rice.

www.greenpeace.org/seasia/ph/News/news-stories/gmo-rice-contamination-found-ii

- Unapproved GMO Wheat Escapes Tainting Crops In Oregon US Wheat Banned in Japan, South Korea After Discovery of Monsanto GMO

www.democracynow.org/2013/6/3/headlines/us_wheat_banned_in_japan_south_korea_after_discovery_of_monsanto_gmo

- GMO flax contamination destroys 75% of Canadian exports for 6 years. "After six years, the "Day of the Triffids" appears to be ending for Canada's flaxseed industry." ... (Triffid)... was de-registered in 2001 over concerns the variety could disrupt export trade, and it was thought to have been destroyed. But like its namesake, it escaped and was detected in shipments to Europe in 2009, effectively shutting down sales to Canada's largest customer..."

www.country-guide.ca/2016/03/31/flax-on-the-road-to-recovery-in-a-post-triffid-world/48670/ - China's state grain reserves have been contaminated by illegal, genetically modified rice, according to an investigation by Greenpeace.

www.theguardian.com/environment/2010/jul/20/china-gm-rice-contamination

- Japanese authorities have canceled a tender offer to buy wheat from the U.S., after unapproved genetically modified wheat was found in an Oregon field...South Korea, China and the Philippines...concerns that the modified wheat could have made it to the marketplace...USDA ... found that it was an experimental type produced by Monsanto

www.reuters.com/article/2013/05/30/us-wheat-asia-idUSL3N0EB1JC20130530

- Genetically Modified DNA Contaminates Ancient Mexican Maize ... Study - published in the journal Molecular

Ecology (GM) corn crop genes have contaminated the DNA of ancient lines of maize—traditional corn crops—in Mexico

-The European Commission asks EU member states on Thursday to check imports of U.S. soft white wheat for GMO contamination

www.marketwatch.com/story/eu-to-check-us-wheat-for-gm-tainted-wheat-2013-05-30

- Alberta Farmers Call for a Ban of GMO Alfalfa in Alberta. Cites Contamination, International Bans and Impact to Export Markets.

<http://edmontonjournal.com/news/politics/alberta-farmers-concerned-with-influx-of-gm-alfalfa>

- National Farmers Union Policy on Genetically Modified (GM) Foods Call for bans, independent testing and labeling,

"Precautionary Principle clearly indicates that we should not introduce GM plants, livestock, or other organisms into our biosphere"

www.nfu.ca/policy/national-farmers-union-policy-genetically-modified-gm-foods

- Calls for Immediate Action to Stop GM alfalfa seed sales in Canada

The National Farmers Union (NFU) has written to Agriculture and Agri-Food Minister Lawrence MacAulay asking him to take immediate action to stop Monsanto licensee, Forage Genetics International, (FGI) from selling genetically modified (GM) alfalfa seed in Canada this spring. ... "A 2015 USDA study shows that GM alfalfa genes have escaped and are being spread throughout the countryside by pollinators. American alfalfa seed production is therefore at high risk for contamination. We shouldn't be allowing FGI's product to enter by the back door either."

www.nfu.ca/story/letter-minister-urgent-action-needed-stop-gm-alfalfa-seed-sales

www.nfu.ca/story/nfu-calls-immediate-action-stop-gm-alfalfa-seed-sales-canada

- The BC Fruit Growers Association asked the Canadian government to halt approval of the GM apple because of market rejection concerns... Organic apple growers in BC have long opposed the GM apple ... contamination concerns...

Over 77 stores ... two food distributors in BC, and some across the country ... pledged not to sell the GM apple

<http://rcab.ca/Presse/Communiqués-de-presse/Canadian-Groups-Demand-Market-Stay-Closed-to-GM-Apple-as-US-Government-Approves-Genetically-Modified-Non-Browning-Apple>

- BC apple growers reject the GM apple - BC and Washington apple growers

- conventional and organic reject the GM "non-browning" apple

<http://commonground.ca/2012/07/bite-out-of-gm-apples/>

- Regional District of Okanagan - Similkameen adopt a motion to register its disapproval of the Arctic Apple - risk of cross-pollination of traditional varieties with genetically-modified strains puts the entire Okanagan fruit industry in jeopardy. Many local governments in B.C. have established themselves as GMO-free zones

www.pentictonwesternnews.com/news/158172985.htm

GMO Farming - Superweeds

- Monsanto's Roundup Creates Resistant 'Super-Weeds', Devastates Farmers

Superweed Epidemic - Twenty-one species.. have become resistant to glyphosate-based pesticides... "superweeds." impact is significant: Changes in soil bacteria, resistance to antibiotics, excessive use of a number of pesticides and crop yield loss all result in dangerous food and rising food prices.

www.organicauthority.com/blog/organic/monsantos-roundup-creates-resistant-super-weeds-devastates-farmers/

- Superweeds Costly and Rampant in Canada - Herbicide resistance major problem in Canada - Canada places third on the list of countries with the highest number of herbicide resistant weeds. North America has more resistant weeds than other continent.

... costs producers billions of dollars every year. The United States has the highest number, while Australia has the second highest count. These 3 countries account for the most GMO and glyphosate use in the world.

www.producer.com/2016/03/herbicide-resistance-major-problem-in-canada/

- Superbugs now adapting to BT GMO- Impacts of genetically engineered crops on pesticide use in the U.S. -- the first sixteen years

the emergence of corn rootworm (CRW) populations resistant to the Cry 3Bb1 toxins expressed in several corn hybrids

keywords - Herbicide-resistant crops - Herbicide-tolerant soybeans Glyphosate 2,4-D Bt crops Genetically engineered corn Roundup Ready crops Biotechnology and pesticide use Glyphosate resistant weeds

<http://enveurope.springeropen.com/articles/10.1186/2190-4715-24-24>

- "16 species of 2,4-D resistant weeds around the world - Canada was the first country in the world, in 2012, to approve 2,4-D-tolerant crops and a dicamba-tolerant soy. ... Enlist- Roundup Ready Corn 2 and SmartStax 1. Corn DAS-40278-9 - with increased tolerance to 2,4-D 2. Soybean DAS-68416-4 - tolerant to 2,4-D and glufosinate 3. Soybeans DAS-44406-6 - tolerant to glufosinate, 2,4-D and glyphosate tolerance - A dicamba-

tolerant soybean from Monsanto has also been approved. - 2,4-D use in corn could increase 30-fold increase in the U.S. (from 2010 levels) with the introduction of 2,4-D tolerant corn

www.cban.ca/Press/Background-Genetically-modified-2-4-D-tolerant-crops2

- Impacts of genetically engineered crops on pesticide use in the U.S. -- the first sixteen years

".. the spread of glyphosate-resistant weeds in herbicide-resistant weed management systems has brought about substantial increases in the number and volume of herbicides applied. If new genetically engineered forms of corn and soybeans tolerant of 2,4-D are approved, the volume of 2,4-D sprayed could drive herbicide usage upward by another approximate 50%.

A study published this week by Charles Benbrook of Washington State University finds that the use of herbicides in the production of three genetically modified herbicide-tolerant crops (cotton, soybeans, and corn) has actually increased over the last sixteen years.

www.fcni.org.uk/research-library/study-impacts-genetically-engineered-crops-pesticide-use-us-%E2%80%93-first-sixteen-years

- 2,4-D resistance found in weeds could limit the herbicide's future usefulness

www.sciencedaily.com/releases/2012/08/120816151812.htm

- 2,4-D Superweeds - >Weed Science Society of America - A Waterhemp (Amaranthus tuberculatus) Population Resistant to 2,4-D

www.bioone.org/doi/abs/10.1614/WS-D-11-00170.1

- A million acres of glyphosate-resistant weeds in Canada?

<http://www.manitobacooperator.ca/2013/05/07/a-million-acres-of-glyphosate-resistant-weeds-in-canada/>

- Charts the rise of Superweeds

www.scientificamerican.com/media/inline/a-hard-look-at-3-myths-about-genetically-modified-crops_3.jpg

GMO Bans - GMO Labeling - Glyphosate Bans

64 countries label and have strict laws regarding GMO 30+ ban GMO outright.. more every few months

- BC has 16 GMO Free Zones and counting.

www.cban.ca/Resources/Topics/GE-Free-Zones

- eg: Vancouver passes resolution banning GMO calls for nationwide ban, labelling and independent testing: THEREFORE BE IT RESOLVED THAT -

A. THAT the planting and growing of genetically modified crops, trees, and plants be banned in the City of Vancouver.

B. THAT the City call upon the Fed.and Prov. govts to implement a regime of mandatory labelling of all ...(GMOs) for sale in BC and Canada.

C. THAT the City call upon the Fed.and Prov. govts to impose a moratorium on bringing further GMOs to market for sale until a regime of independent and transparent scientific assessment and GMO management is introduced.

D. THAT staff be directed to investigate the opportunities to ban the sale of GMO crops, meat, fish, poultry and seeds in the City of Van.

E. THAT this resolution be circulated to the Premier, Prime Minister, all Vancouver MLAs and MPs, the Federation of Canadian Municipalities and the UBCM. PDF:

council.vancouver.ca/20140527/documents/motionb3.pdf

- .. the call for GMO-free zones and their implementation is, despite legal difficulties, a world-wide phenomenon.

Examples can be found on all continents, especially in those areas with a higher level of public awareness and information on GMOs and a longer experience with industrialized agriculture ... 174 regions and over 4500 municipalities and other local areas in Europe have declared themselves GMO-free. In six European countries, GMO-free zones almost cover the entire country: Poland, Greece, Austria, Switzerland, France, and Italy ... PDF: http://www.gmo-free-regions.org/fileadmin/files/gmo-free-regions/GMO_free_regions_manual.pdf

- GMO labeling Worldwide:

www.justlabelit.org/right-to-know-center/labeling-around-the-world/

- Maps: GMO Free Zones Worldwide

www.organicconsumers.org/old_articles/gefood/countrieswithbans.php

- No cost increase to label GMO - 64 countries around the world require GE food labeling and have not reported higher food costs as a result... discredited industry funded studies that claim GE food labeling will raise food prices. Consumers Union ..median cost of labeling ... \$2.30 per person per year.

www.centerforfoodsafety.org/press-releases/4246/discredited%20industry%20funded%20studies

- More than half of the European Union's 28 nations plan to prohibit the cultivation of a group of genetically modified crops awaiting EU regulatory approval, marking the first use by individual governments of a new right to

go their own way on the planting of biotech foods.

<http://www.bloomberg.com/news/articles/2015-10-05/most-eu-countries-to-ban-cultivation-of-8-gmos-using-new-rules>

- BGH - Dr. Shiv Chopra BGH study for the govt. of Canada saw Bovine Growth Hormone banned in Canada. (See update - TPP / Monsanto threat) ". Monsanto officials when they offered Health Canada one to two million dollars to approve BGH without any further studies."

www.consumerhealth.org/articles/display.cfm?ID=19991128221446

- American Academy of Pediatrics is severing ties with Monsanto at the end of the year.

<http://magazineforhealthy.com/2016/02/09/the-american-academy-of-pediatrics-cuts-ties-with-monsanto/>

- MARYLAND TO BECOME FIRST STATE IN U.S. TO BAN BEE-KILLING PESTICIDES!

Maryland will become the first U.S. state to ban neonicotinoid-containing pesticides to help revive honey bee populations.

<http://www.healthyandnaturalhabits.com/maryland-become-first-state-u-s-ban-bee-killing-pesticides/>

- 160 countries ban or restrict Ractopamine in livestock - World's Largest Pork Producer Removes Animal Growth Drug - Ractopamine is a beta-agonist. Initially developed to treat asthma in humans, ... No independently-funded scientific research has studied human health impacts from long-term, low-level consumption of meat raised with such additives.

www.reuters.com/article/us-usa-smithfield-ractopamine-analysis-idUSBRE94T03520130530

- Ractopamine effects may include toxicity and other exposure risks, such as behavioral changes and cardiovascular, musculoskeletal, reproductive, and endocrine problems. It is also associated with demonstrations of high stress levels in animals, "downer" or lame animals, hyperactivity, broken limbs, and death.. "More pigs have been adversely affected by ractopamine than by any other animal drug...

over 160,000, by the FDA's own calculations,..." Banned - Based on available evidence, many countries have taken a cautionary approach to the use of ractopamine in their national food system ... approximately 160

countries ban or restrict ractopamine, including all the nations of the European Union, China, Taiwan, and Russia.

<http://aldf.org/press-room/press-releases/public-interest-groups-challenge-fda-on-use-of-controversial-animal-growth-drug/>

- Brazil has banned the use of this pesticide. Larvicide is actually larvicide pyriproxyfen. The pesticide in question is sold under the commercial name, SumiLarv, which is manufactured by a Japanese subsidiary of Monsanto.

<http://truthkings.com/2016/02/17/brazil-bans-monsanto-pesticide-after-its-exposed-to-cause-birth-defects>

- The sale of GMOs in Brazil were originally banned after the Institute of Consumer Defense won a lawsuit in 1998. However, in 2003 the Brazilian Ministry of Justice adopted measures that enabled the retail and use of GMO products, although a warning symbol is required for products intended for human consumption.

<http://sustainablepulse.com/2016/01/08/brazil-justice-ministry-fines-nestle-over-failing-to-label-gmos>

- President of the Portuguese Medical Association, Jose Manuel Silva, has called for a Global ban on the World's most used herbicide, Glyphosate, over the many health concerns surrounding the chemical.

<http://sustainablepulse.com/2016/02/09/portuguese-medical-association-president-calls-for-global-ban-on-glyphosate/>

- Regional environment ministers in the Brussels and Wallonia jurisdictions in Belgium have said they will ban glyphosate

<https://euobserver.com/environment/132634>

- Many more countries, districts and retailers ban glyphosate.

<http://sustainablepulse.com/2015/07/30/who-publishes-full-probable-human-carcinogen-report-on-glyphosate/>

- Glyphosate Bans & Restrictions as of December 2015 -PDF

http://www.pan-uk.org/attachments/507_Glyphosate%20restrictions%20Dec%202015.pdf

- Taipei, March 20 (CNA) Academics, experts, indigenous people and farmers from Taiwan + 8 countries signed "Taiwan Declaration" that seeks protection of indigenous cultures and rejects genetically modified (GM) crops "promotes collaboration in the conservation and restoration of sustainable human-influenced natural environments through broader global recognition of their value."

<http://m.focustaiwan.tw/news/asoc/201603200009.aspx>

- China bans GMO corn

www.bloomberg.com/news/articles/2014-04-16/u-s-group-says-losses-may-be-6-3-billion-on-china-corn

- Russia bans GMO citing contamination concerns - The Russian food safety regulator Rosselkhoznadzor announced that the ban was because of GMO and of microbial contamination and the absence of effective US controls on soybean and corn exports to prevent export of quarantinable grains, also known as microbial contamination.

www.globalresearch.ca/russia-bans-us-gmo-imports/5510933

- Sweden and the Netherlands follows the announcement on Friday by French Minister of Ecology Ségolène Royal that France will vote against the EU re-licensing of glyphosate. "...previously all regulators worldwide have completely ignored the possible health risks of co-formulants, otherwise known as adjuvants or non-active ingredients in pesticides."

<http://sustainablepulse.com/2016/03/05/eu-countries-launch-shock-rebellion-against-glyphosate-herbicides>

- European Parliament Rejects Imports of Monsanto's GM Liberty Link Maize GM "not consistent with Union law"
www.greenpeace.org/eu-unit/en/News/2015/Parliament-rejects-unlawful-proposal-to-import-pesticide-resistant-GM-maize-to-the-EU/

- El Salvador and Sri Lanka have adopted the precautionary principle and taken action to ban the herbicide.
<http://sustainablepulse.com/2013/09/19/el-salvador-government-bans-roundup-over-deadly-kidney-disease/>

- Santa Fe, a major GM soy-producing region, banned the spraying of glyphosate and other agrochemicals in populated areas ... concerns about "severe damage to the environment and to the health and quality of life of the residents."
www.truth-out.org/opinion/item/25122-exposing-monsanto-herbicide-linked-to-birth-defects-the-vitamin-a-connection

- Grain Miller Bans Spraying Glyphosate Right Before Harvest Canadian growers selling oats to Grain Millers Inc. will be required to sign an affidavit prohibiting pre-harvest glyphosate Oat buyer says no glyphosate pre-harvest
www.producer.com/2016/01/grain-millers-inc-firm-on-glyphosate-treated-oats-ban/

- "In Japan: The Japanese people are staunchly opposed to genetically modified crops and no GM seeds are planted in the country. However, large quantities of canola are imported from Canada (which is one of the world's largest producers of GM canola) and there is now GM canola growing wild around Japanese ports and roads to major food oil companies. Genetically modified canola such as Monsanto's Roundup Ready canola have been found growing around 5 of the 6 ports that were tested for GM contamination.
www.examiner.com/article/what-countries-have-banned-gmo-crops

- List of countries that ban gmo crops and require ge food labels
<http://naturalrevolution.org/list-countries-banned-genetically-modified-food/>

- "In addition to France and Germany, other European countries that placed bans on the cultivation and sale of GMOs include Austria, Hungary, Greece, and Luxembourg. Poland has also tried to institute a ban, with backlash from the European Commission."
http://en.wikipedia.org/wiki/Regulation_of_genetically_modified_organisms_in_the_European_Union

- France, Sweden, Netherlands and Italy to announce in recent days that they would be voting against the re-licensing of glyphosate.
www.theecologist.org...eu_postpones_glyphosate_decision_a_good_day_for_public_health.html

- Monsanto Roundup Ban Starts in The Netherlands At End of The Year
www.aboutlawsuits.com/monsanto-roundup-bans-86123/

- The outright ban on neonicotinoid pesticides was adopted... late on Thursday by France's National Assembly,
www.reuters.com/article/us-france-pesticides-idUSKCN0WK1KL

- European officials put a hold on continued use of glyphosate - The European delay comes in the face of strong opposition to the proposed 15-year re-licensing agreement from Italy, France, Sweden and the Netherlands. 96 European scientists call to uphold glyphosate ban.
www.panna.org/blog/eu-puts-brakes-monsantos-roundup

-The Committee on Environment, Food Safety & Public Health (ENVI) formally objected Tuesday to the re-authorization by the European Commission of the herbicide glyphosate.
<http://sustainablepulse.com/2016/03/22/european-environment-committee-votes-against-glyphosate-renewal>

- European Parliament Vote Supports Vital New Restrictions on Glyphosate Herbicides - non-professional use banned - banned in or close to public parks/playgrounds/gardens - banned where integrated pest management systems are sufficient for ... weed control and Strict limitations on pre-harvest applications (desiccation)... deemed unacceptable
<http://sustainablepulse.com/2016/04/13/european-parliament-vote-supports-vital-new-restrictions-on-glyphosate-use>

- Mexico Bans GMO Corn Judge Sanchez's ruling supported the original unprecedented ban on GM Maize ... cited "the risk of imminent harm to the environment" as the basis for the decision."
<http://sustainablepulse.com/2016/03/09/mexicos-gm-maize-ban-set-to-continue-after-appeal-ruling>

- Vancouver votes to ban bee-killing neonicotinoid pesticides
" ... The practice drew criticism from scientists and environmentalists that a pretty lawn didn't justify the risk of introducing chemical pollutants, especially when an organic alternative — nematode worms — is also available ... extended the exemption to watering restrictions available for homeowners who use nematodes to control chafer beetles ..."
<http://www.cbc.ca/news/canada/british-columbia/merit-chafer-beetle-vancouver-1.3555472>
<http://www.cbc.ca/news/canada/british-columbia/vancouver-bans-neonicotinoids-1.3675572>
<http://vancouver.ca/home-property-development/chafer-beetles.aspx>

- Law passed to ban GM food in school meals Taipei
<http://focustaiwan.tw/news/asoc/201512140031.aspx>

- GMO potato bans

<http://www.cban.ca/Resources/Topics/GE-Crops-and-Foods-Not-on-the-Market/Potato>

- Bee Resurgence After Banning These 3 Pesticides Still Used in The US bee populations are experiencing a resurgence after three neonicotinoid insecticides, clothianidin, imidacloprid and thiamethoxam were banned by the European Commission in 2013.

<http://jbanews.com/2016/02/18/european-scientists-discover-bee-resurgence-after-banning-these-3-pesticides-still-used-in-the-us/>

- Denmark's plan to turn the country into an organic country is the "world's most ambitious" according to the country's Food and Agriculture Minister Dan Dan Jørgensen

<http://foodrevolution.org/blog/denmark-organic-country/>

- Venezuela Bans GMO - "Anti-GMO and Anti-Patenting Seed Law"

<http://venezuelanalysis.com/analysis/10966>

- Vermont Hospital Removes GMO Food From Menu

www.realfarmacy.com/vermont-hospital-removes-gmos-from-food/

- 3 More European Countries Begin Banning Glyphosate and Monsanto's Roundup

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

- FDA GMO Salmon Import Ban - Target, Whole Foods, Kroger, Trader Joe's, Costco, and Safeway have all said they will not sell GMO salmon.

<http://www.takepart.com/article/2016/02/01/fda-import-ban-gmo-salmon>

- Alberta Municipalities Resolve to Block GM Alfalfa - The Alberta Association Of Municipal Districts & Counties (AAMDC) has passed a resolution designed to prevent genetically modified alfalfa from being introduced to the province.

<http://seed.ab.ca/aamdc-resolves-to-block-gm-alfalfa/>

- Union of BC Municipalities votes to ask province to ban GE crops and animals

www.cban.ca/Resources/Topics/GE-Free-Zones

- Nova Scotia says no to genetically modified fish - Provincial fisheries minister rejects production of eggs, wants no GMO connection ... Colwell said his government would not allow even the production of eggs in Nova Scotia.

<http://thechronicleherald.ca/business/1366308-nova-scotia-says-no-to-genetically-modified-fish>

- One Year After Ontario Ban: Over 80% Decline of Most Common Pesticides in Surface Waters - three pesticides estimated to account for half of lawn care product applications dropped by 86% (2,4-D), 82% (dicamba), and 78% (MCPP: 2-methyl-4-chlorophenoxyacetic acid). (glyphosate and carbaryl remain persistent) Study:

<http://www.flora.org/healthyottawa/10-06-09%20Prelim%20results%20of%20pesticides%20study.pdf>

- France Bans Monsanto's Roundup as Environmental Groups Push WHO for Stronger Safety Standards

<http://ecowatch.com/2015/06/16/france-bans-monsantos-roundup-as-environmental-groups-push-who-for-stronger-safety-standards/>

- Soil Association calls for ban on Glyphosate: the world's most widely sold weedkiller

www.soilassociation.org/news/newstory/articleid/8110/soil-association-calls-for-ban-on-glyphosate-the-world-s-most-widely-sold-weedkiller

- GMO Crops Now Banned in 38 Countries, Grown in Only 28

<http://althealthworks.com/9778/list-of-38-countries-that-banned-gmos-and-28-that-grow-themyelena/?c=cam>

GMO and Glyphosate Statistics

- USDA ERS Charts - 93% of all soybean are "herbicide resistant", 82 percent of cotton, corn 76%, some with the insecticides infecting the DNA of the plant.

1,814,400 kg in 1995 to 12,538,400 2014

(1.8 to 12.5 million kg increase since GMO crops were introduced)

National Agriculture Statistical Service pesticide use data and the Environmental Protection Agency

<http://enveurope.springeropen.com/articles/10.1186/s12302-016-0070-0>

- Pesticide Use Increases on GE Crops or Failure to Yield Studies

www.ucsus.org/food_and_agriculture/our-failing-food-system/genetic-engineering/failure-to-yield.html

- Since 1993 the EPA has also approved a 2,000-fold increase in the tolerance level of glyphosate residues on alfalfa grown for animal feed. - The agency has also increased the allowable level of glyphosate for wheat - up 5-fold between 2012 and 2015 running the risk of glyphosate ending up in flour.- Globally, glyphosate use has risen almost 15-fold since so-called "Roundup Ready" genetically engineered glyphosate-tolerant crops were introduced in 1996. Two-thirds of the total volume of glyphosate applied in the U.S. from 1974 to 2014 has been sprayed in just the last 10 years.

<http://robbynobrien.com/roundup-reality-americans-exposed-to-more-glyphosate-than-europeans/>

- "Through the EPA's new standards ... allowable glyphosate in oilseed crops such as flax, soybeans and

canola ... increased from 20 ppm to 40 ppm, which GM Watch acknowledged is over 100,000 times the amount needed to induce breast cancer cells. Additionally, the EPA is increasing limits on allowable glyphosate in food crops from 200 ppm to 6,000 ppm. "

www.rt.com/usa/monsanto-glyphosate-roundup-epa-483/

- "the 1996 commercialization of GM RR soy, EU regulators raised the allowed maximum residue limit (MRL) for glyphosate in imported soy 200-fold, from 0.1 mg/kg to 20 mg/kg.3 ... safe levels of glyphosate consumption have never been tested to find out if they really are safe to consume over the long term.

<http://earthopensource.org/gmomythsandtruths/sample-page/4-health-hazards-roundup-glyphosate/4-2-myth-strict-regulations-ensure-exposed-safe-levels-roundup/>

- 2.4 billion pounds of glyphosate in the past decade. 1999 - 2015, the EPA approved a doubling of tolerable glyphosate residues on soybean grain - 49-fold increase on corn grain.

Glyphosate use by U.S. farmers - 12.5mil lbs in 1995 to 250mil lbs in 2014 - 20-fold increase, while global use rose from 112.6 million pounds in 1995 to 1.65 billion pounds in 2014, according to recent research in the peer-reviewed journal Environmental Sciences Europe

2016 - FDA to Start Testing for Glyphosate in Food The federal agency already tests for residues of many agricultural chemicals on food. Now it will include the widely used weed killer linked to cancer

<http://civileats.com/2016/02/17/fda-to-start-testing-for-glyphosate-in-food>

- More, Not Less Pesticides Since 1995 - Glyphosate use skyrocketing despite industry claims. Global Glyphosate Market to Reach US\$8.79 Bn by 2019 Propelled by Increasing Adoption of Genetically Modified Crops

www.sbwire.com/press-releases/global-glyphosate-market/release-672061.htm

- "Roundup Ready" Crop Marketing Resulted in 15-Fold Increase in Glyphosate Herbicide Use

www.aboutlawsuits.com/roundup-use-study-94169

- Environmental Sciences Europe

Impacts of genetically engineered crops on pesticide use in the U.S. -- the first sixteen years

- Herbicide-resistant crop technology has led to a 239 million kilogram (527 million pound) increase in herbicide use in the United States between 1996 and 2011 - If new genetically engineered forms of corn and soybeans tolerant of 2,4-D are approved, the volume of 2,4-D sprayed could drive herbicide usage upward by another approximate 50%.

<http://enveurope.springeropen.com/articles/10.1186/2190-4715-24-24>

- Study from March 2015 stated that the health costs to the European Union of hormone hacking chemicals is over \$ 150 Billion per year! ... lower IQ, adult obesity and 5% or more of autism cases are all linked to exposure to endocrine disruptors. Glyphosate is likely to be one of these hormone hacking chemicals according to independent science.

<http://sustainablepulse.com/2016/05/08/us-house-committee-launches-investigation-into-epa-glyphosate-cover-up-2>

<http://www.theguardian.com/environment/2015/mar/06/health-costs-hormone-disrupting-chemicals-150bn-a-year-europe-says-study>

<http://detoxproject.org/glyphosate/hormone-hacking/>

- 85% of Feminine Hygiene and Sterile Swabs contaminated with glyphosate.

"The vast majority .. of tampons, cotton and sanitary products tested in a new Argentinean study contained glyphosate, the key ingredient in Monsanto's Roundup herbicide, ruled a likely carcinogen by the World Health Organization.."

www.rt.com/usa/319524-tampons-cotton-glyphosate-monsanto/

- Argentina - Epidemiological surveys - rates of birth defects and malformations in children, cancer, and miscarriages one hundred times higher than the national average, coinciding with the increase of GM soy cultivation and herbicide spraying near populated areas

https://www.loc.gov/law/help/restrictions-on-gmos/argentina.php#_ftn11

- 2009 - 20 million Canadians suffer from digestive disorders every year - \$18 000 000 000 in 2000 was spent on digestive disease in Canada - Canada has the highest rates IBD in the world

- 1990-2009 Canadians medically diagnosed with bowel disorder has doubled

Crohn's disease in Canadian children has almost doubled since 1995- Age 70-79 - 12-fold increased chance of getting colorectal cancer within 10 years - 50% of Canadians over the age of 80 years develop diverticular disease
Statistics from Canadian Digestive Health

<http://www.cdhf.ca/en/statistics>

- 30% of celiac disease patients may develop a malignancy - Digestive cancers kill more Canadians than any other, second only to lung cancer - One out of every five new cancer cases in 2009 will involve the digestive tract
Crones & Colitis Canada

www.crohnsandcolitis.ca/site/c.dtJRL9NUJmL4H/b.9221471/k.5D6A/Facts_and_Statistics.htm

- Glyphosate Found in Urine of 93 percent of Americans Tested - The results from the UCSF urine testing in America showed a much higher frequency and average glyphosate level than those observed in urine samples in

the European Union in 2013. The average level in Europe was around 1 PPB with a frequency of detection of 43.9 percent.

<https://ecowatch.com/2016/05/29/urine-test-monsanto-glyphosate/>

- 2016 EU parliament members test urine for glyphosate -

On average, the MEPs had 1.7 micrograms/liter of glyphosate in their urine, 17 times higher than the European drinking water norm (0.1 microgram/litre). This means that everyone we tested was way above the limit for residues of pesticides in drinking water.

<http://www.greens-efa.eu/we-are-pissed-off-15542.html>

- EU glyphosate found in human urine 2013 study:

<https://www.foeeurope.org/weed-killer-glyphosate-found-human-urine-across-Europe-130613>

- Canada is one of the only developed countries that do not label GMO and allow many banned toxins in our food, even once Canada bans these toxins, they can be left on the market for up to 11 years with "stalling mechanisms are built right into the law"

<http://www.cbc.ca/news/politics/gelfand-environment-commissioner-pesticides-fall-2015-report-1.3420160>

Since the rising rates of digestive disease is on the exact same upward bell curve as synthetic chemical & novel food practices, based on 2009 rates, how many more millions suffer today due to the politics of our food?

- GMO / Allergies - Since the introduction of GMO - *400% increase in food allergies - *300% increase in asthma, with a 56% increase in asthma deaths - *400% increase in ADHD.

(most Autistic children have gut permeability and digestive problems) 1,500 and 6,000% increase in autism.

<http://hubpages.com/health/GMO-Food-Allergies>

- Asia Pacific Food Safety Governance Conference - Philippine Network of Food Security:

".. Increased incidence of food insecurity due to biodiversity loss and lower income - Effects on health - stomach pains and diarrhea - shortness of breath, chest pains and coughing - itching and yellowing of skin, skin allergies - numbing of lips and tongue after eating GM corn. - increased incidence of asthma attacks among children - traces of the Bt toxin (Cry1Ac) in the blood serum ..." <http://www.slideshare.net/PNFSP/gmos-and-their-implications-on-the-philipino-peoples-food-security>

- USDA Human Digestive Disorders Hospitalization vs BT Corn GMO Rates - Identical

<http://www.examiner.com/article/intestinal-disease-immune-disease-and-gmos>

- Between 1997 and 2003, Canadian federal government spent \$13 million on bio-tech communications.

www.cban.ca/GMO-Inquiry-2015/Biotechnology-PR-in-Canada-Archives

- Food Lobby spends \$101.4 million in One Year to Avert GMO labeling in the US - 2015:

www.day2daymagazine.com/food-lobby-spends-101-million-in-2015-to-avert-gmo-labeling/

|

- New Poll: Nearly Nine in 10 Americans Want Labels on GMO Food

www.centerforfoodsafety.org/press-releases/4150/new-poll-nearly-nine-in-10-americans-want-labels-on-gmo-food#

- 88% of Canadians want mandatory labeling Ipsos Reid poll commissioned by CBAN (update 90% polled)

www.cban.ca/Resources/Topics/Labeling/Polls-on-GM-Food-Labeling

- International Online Poll Do you think GMO labeling should be mandatory?

Of 136 000 votes, 93% of people polled want GMO labeled.

www.msnbc.com/msnbc/poll-do-you-think-gmo-labeling-should-be-mandatory

In light of these details, Health Canada must not turn away from the evidence regarding Novel Foods technologies. Only a major overhaul in our regulation and safety protocols of GMO technologies and their accompanying synthetic chemical industrial food practices will restore the protections obligated to Canadians by Health Canada.

#NotRoundupReady #LabelGMO #GMOfreeCanada

With no labeling, there is no culpability, accountability or liability.