

ACT NOW!

CANADA JUST APPROVED
the genetically modified (GM)
“non-browning” APPLE.

DON'T WANT IT?
SAY SO

cban.ca/apple



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CBAN DENOUNCES FEDERAL DECISION TO APPROVE GM APPLE

GM apple approved over the objections of consumers and farmers

March 23, 2015. Ottawa CBAN Press Release

The Canadian Biotechnology Action Network (CBAN) today denounced the Canadian government’s decision to approve the first-ever **genetically modified (GM) apple**. “Our government is not listening to Canadians,” said Lucy Sharratt of CBAN. “Fruit growers had asked the government not to approve this GM apple and polls show that a majority of consumers don’t want it on grocery store shelves.” The GM apple is genetically engineered not to turn brown after being cut. If it gets onto the market, it would be only the second GM fruit sold anywhere in the world, after a Hawaiian-grown papaya, and it would be the first GM fruit to be grown in Canada.

“The GM apple will mislead consumers because it will look fresh even when its not,” said Teresa Lynne of the CBAN member group Society for a GE Free BC, “The GM apple threatens the reputation of apples as fresh, wholesome food. We don’t need it.” A 2012 survey commissioned by the BC Fruit Growers' Association and the Federation of Quebec Apple Growers showed that 69% of Canadians didn’t want it approved.[1] Growers are concerned that the GM apple will negatively affect the entire market for apples.

“Growers are right to worry that without clear labelling many consumers will buy fewer apples just to avoid this GM apple,” said Thibault Rehn of the Quebec Network Vigilance OGM, a CBAN member group. “We need our grocery stores to step in to protect the consumer interest and the apple industry by keeping their doors closed to this GM apple.”

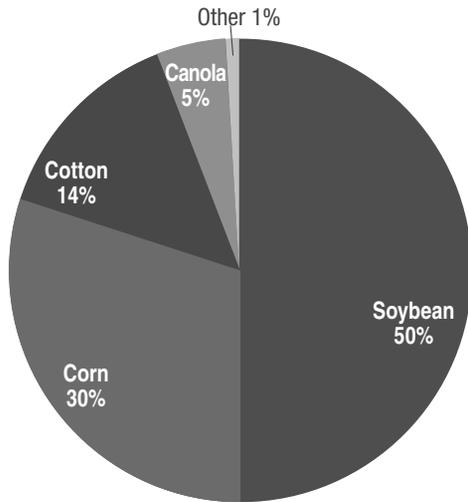
The GM apples will not be clearly labelled as genetically modified. The company says that fresh GM apples would be have a sticker bearing the company's trademark “Arctic Apple” logo. The company promises a similar logo on food products that have ingredients from the GM apple but it’s not clear how this would be implemented or enforced. Sliced GM apples used by the food service industry are unlikely to be labelled. The US government has also decided to allow commercialization of the GM apple.

Take Action with CBAN www.cban.ca

GM CROPS AROUND THE WORLD

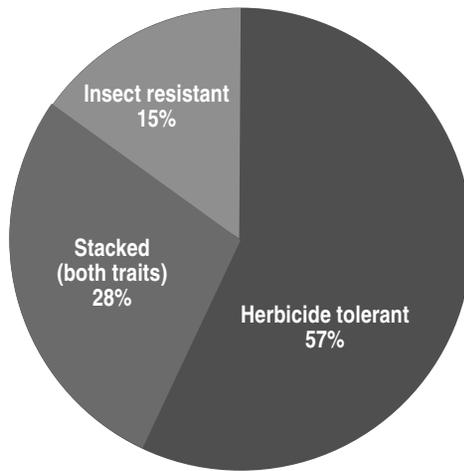
Four GM Crops

Four GM crops are 99% of the world's GM crops: corn, canola, soy and cotton.



Two GM Traits

In total, 85% of the world's GM crops are herbicide-tolerant.



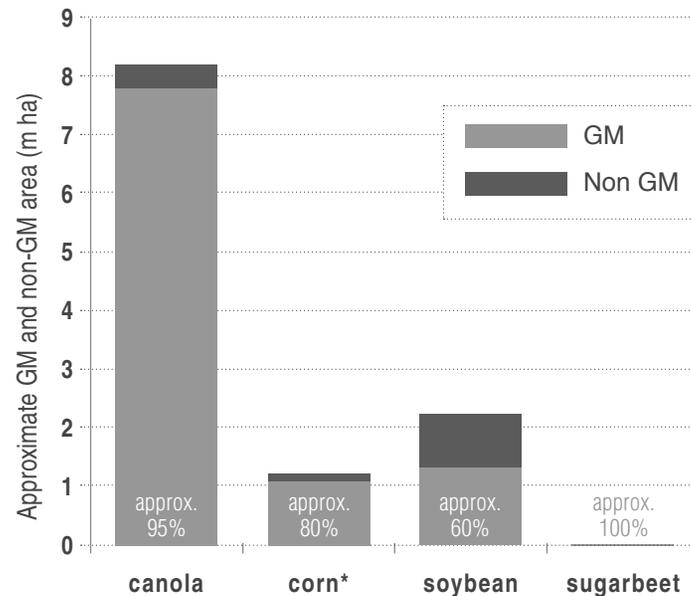
Where in the world are GM crops and foods?



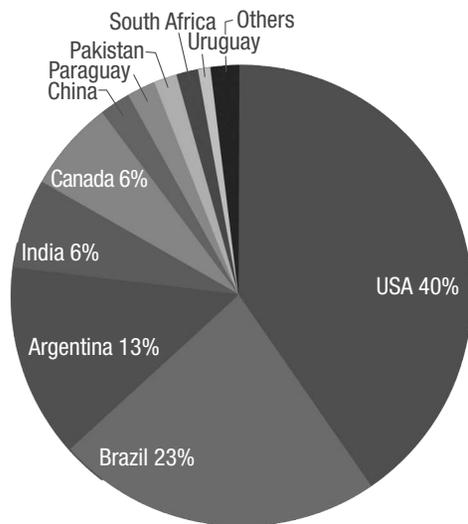
It's been 20 years since the first GM crop was approved in Canada.

Only four GM (genetically modified) crops are grown in Canada: **canola, corn, soy and sugar beet.**

GM CROPS GROWN IN CANADA



* Over 80% of grain corn is GM. There's also a very small, unknown amount of GM sweet corn.



Ten Countries

Ten countries grow 98% of all the genetically modified crops in the world. Most countries are not growing GM crops.

Only 3.7% of the world's agricultural land is being cultivated with GM crops, and less than 1% of the world's farmers are growing GM crops.



Join the inquiry. Get new research, inquiry updates and ways to get involved. GMOinquiry.ca

For the FULL REPORT, check our website

GMOinquiry.ca

GM CROPS GROWN IN CANADA

CROP	TRAIT	WHERE ON THE SHELVES
1. Corn	Insect resistant, herbicide tolerant	Corn flakes • Corn chips • Cornstarch • Corn syrup • Corn oil and other corn ingredients in processed foods • Sweeteners like glucose and fructose • Eggs, milk and meat* • Some sweet corn
2. Canola	Herbicide tolerant	Canola oil • Eggs, milk and meat*
3. Soy	Herbicide tolerant	Soy oil • Soy protein • Soy lecithin • Tofu • Soy beverages • Soy puddings • Eggs, milk and meat*
4. Sugar beet	Herbicide tolerant	Sugar

GM CROPS IMPORTED TO CANADA

FOOD	GROWN	WHERE ON THE SHELVES
5. Cottonseed oil	U.S.	Cottonseed oil • Vegetable oil in processed foods such as potato chips
6. Papaya	U.S. (Hawaii)	Papaya in fruit juices and other processed foods
7. Squash	U.S.	Some zucchini • Yellow crookneck and straightneck squash
8. Milk products (Bovine Growth Hormone)	U.S.	Milk solids and powder • Frozen desserts with dairy • Imported mixed drinks with milk ingredients

CERTIFIED ORGANIC FARMERS DO NOT PLANT GM SEEDS AND DO NOT FEED ANIMALS GM GRAINS

*GM grains are commonly fed to livestock and dairy cows.

For the FULL REPORT see GMOinquiry.ca

GM FOODS *NOT* ON THE MARKET

✗ Tomatoes	Approved but not on the market. Briefly sold in 1995/6. Never grown in Canada.
✗ Potatoes	Monsanto took its insect-resistant potatoes off the market in 2001. A different GM potato was approved in the US in Aug 2014 but it is not yet on the market, and it is not yet approved in Canada.
✗ Wheat	There is no GM wheat grown anywhere in the world. In 2004, Monsanto withdrew its requests for approval of GM herbicide tolerant wheat.
✗ Rice	There is no GM rice grown anywhere in the world.
✗ Flax	GM flax was deregistered in Canada in 2001, and was never commercially released.
✗ Pig	The GM pig called “Enviropig” was set to become the first GM food animal in the world but was halted in 2012 after protests in Canada.

GM FOODS THAT COULD BE NEXT

Alfalfa	GM herbicide tolerant and low-lignin alfalfa is approved but the seeds are not yet sold in Canada. www.cban.ca/alfalfa
Fish	Canada approved the GM salmon for production but its not yet approved for human consumption in Canada or anywhere else. www.cban.ca/fish
Apple	The US approved a GM “non-browning” apple in Feb 2015 but its not yet approved in Canada (as of March 11 2015). www.cban.ca/apple
2,4-D and dicamba-tolerant corn and soy	These herbicide tolerant crops are approved and are in limited but not yet full commercial production. www.cban.ca/24Dcrops

For the FULL REPORT see GMOinquiry.ca



Jeffrey M. Smith recently shared his GMO knowledge with Purium Members at the Purium ONE convention.

JEFFREY M. SMITH

SAY NO TO GMO

Why are thousands of physicians advising patients to avoid eating GMOs (Genetically Modified Organisms) and how did these high-risk foods get onto the market in the first place? The answers are disturbing, even shocking, but may help you get healthy and stay healthy.

Foods with added bacterial or viral genes were quietly slipped into your diet two decades ago. Using the excuse that GMOs weren't that much different, the FDA didn't require labels or even a single safety study from GMO makers like Monsanto. But a lawsuit forced the agency to release their files and the truth finally came out.

FDA scientists repeatedly warned that GMOs could create allergies, toxins, new diseases and nutritional problems and that rigorous safety testing was needed. But the White House had instructed the FDA to promote biotechnology, and Michael Taylor, Monsanto's former attorney, was put in charge

of FDA policy. (Taylor later became Monsanto's chief lobbyist, and has returned to FDA as US Food Czar.) Can you trust Monsanto with your family's health? That same company that told us that Agent Orange, DDT and PCBs were safe.

Now Monsanto's "Roundup Ready" (RR) crops are engineered to withstand their Roundup herbicide, which gets absorbed into the food and can't be washed off. A 2014 study found Roundup the most toxic of all herbicides and insecticides they tested. According to MIT scientist Stephanie Seneff, Roundup may be "the most important factor in the development of multiple chronic diseases and conditions." She co-authored a seminal paper linking it to including

obesity, heart disease, inflammatory bowel, IBS, autism, allergies, MS, Parkinson's, depression, infertility, Alzheimer's and cancer.

Some GMOs, e.g. corn, have built-in pesticides that break open holes in the stomach of insects. A 2012 laboratory study confirmed that the toxin, called Bt-toxin, opens holes in human cells. And a Canadian study found both Bt-toxin and Roundup in the blood of most pregnant women and their fetuses.

CANCER AND GMOs

The link between consumption of genetically engineered foods and cancer came into sharp focus recently with the publication of a long-term feeding study by a team of French scientists. They fed Monsanto's RR corn to rats for two years. Starting just after 90 days – which is normally the cutoff time for feeding studies by Monsanto and the other GMO producers – the first rat developed a tumor. By the end of the experiment, up to 80 percent of the female rats had tumors of the mammary glands, and up to 50 percent of the male rats also had tumors. These numbers were far greater than the control group, which had been fed the equivalent non-genetically modified corn. The GMO-fed group also died at 2-3 times the rate, and had damaged livers, kidneys, and pituitary glands.

In addition to feeding rats RR corn that had been sprayed with Roundup, they also fed a group of rats the RR corn that had not been

sprayed. And other groups of rats were fed various levels of Roundup alone without the RR corn. They wanted to see whether any changes were due to the GMO corn or the Roundup. Ironically, all three experimental groups developed multiple massive tumors, early death, and organ damage. This means that both the GMO and the herbicide are implicated.

Other studies have linked Roundup with non-Hodgkin's lymphoma and the growth of breast cancer cells. Roundup is also linked to permeable gut, whereby the walls of the intestines develop gaps. This so-called "leaky gut" is also



Our pets deserve non-GMO food too!

Did you know 93% of corn and soy produced in the U.S. are genetically modified?

IRT has launched PetsandGMOs.com to provide information about non-GMO feed & pet food options.

We need your support to grow this campaign as we continue our efforts to drive the tipping point and educate consumers about non-GMO products & ingredients!

Visit PetsandGMOs.com/donate and help us to educate and support pet owners!

linked to cancer. Bt-toxin may also promote leaky gut since it can poke holes in intestinal cells. (The intestinal lining is only one cell thick).

GENETIC ENGINEERING PROCESS MAY CAUSE DISEASES

While one or both of these two toxins, Roundup and Bt-toxin, are found in nearly

mia in the patient.

Unfortunately, the GMO crop producers don't pay much attention to potentially disastrous unintended consequences that result from the engineering process. One early study, however, commissioned by the UK government, did expose such consequences. Rats fed GMO potatoes developed potential-

We believe it is not a coincidence that the rise of these types of health issues in the US population parallels the use of GMOs and Roundup.

In addition to the health dangers, independent studies also show that GMOs don't increase yields, don't solve world hunger, and massively increase herbicide use.

"BEFORE WE LET MONSANTO REPLACE NATURE, LET'S DEMAND INDEPENDENT, COMPREHENSIVE LONG-TERM SAFETY STUDIES. UNTIL THEN, STOP FEEDING US THE PRODUCTS PRODUCED BY THIS IMMATURE SCIENCE."

all GMOs, even the process of creating a genetically engineered crop might promote cancer or other diseases. When producing a GMO, scientists insert a foreign gene into a plant cell using either a gene gun or via bacterial infection. They then clone that cell into a plant. The insertion and cloning process cause massive collateral damage in the normal functioning plant DNA. Genes can be switched on, shut off, deleted, or damaged.

New carcinogens, toxins, or allergens can be created in the plant, or levels of existing carcinogens, etc. might be accidentally elevated. In Monsanto's most popular Bt corn, for example, a normally silent gene found in the corn genome was switched on and now produces an allergen not previously produced by corn. Similarly, their GMO soy inadvertently has levels of a known soy allergen that is as much as seven times higher than natural soy.

This same type of side effect had a tragic outcome in human genetic engineering. While the inserted gene was supposed to cure a genetic defect, the process switched on a gene that caused leuke-

ly precancerous cell growth in their digestive tracts in just 10 days. They also had damaged immune systems, smaller brains, livers, and testicles, and partially atrophied livers. The study's design implicated the process of GMOs, not the particular gene that was inserted into the potatoes.

NON-GMO EATERS REPORT HEALTH IMPROVEMENTS

If you don't trust GMOs, you're not alone. According to a 2013 survey by Hartman Group, over 120 million Americans say they try to avoid them. That number has more than doubled since 2007.

When people eliminate GMOs, they (and their physicians) often report more energy, weight loss, better digestion, reduced allergies and skin conditions, and relief from numerous chronic conditions. Veterinarians, farmers and pet owners describe similar improvements with animals taken off GMOs. According to a research review by the American Academy of Environmental Medicine, many of these disorders also afflict lab animals fed GMOs.

GMO advocates aggressively deny any evidence against them. According to Nature, a "large block of scientists [...] denigrate research by other legitimate scientists in a knee-jerk, partisan, emotional way." Tactics include threats, gag orders and termination. The author of the potato study cited above, for example, was fired from his institute and gagged with threats of a lawsuit. It took an order from the UK Parliament to un gag him, which eventually led to the publication of the results.

And the French team that conducted the two year rat study on RR corn came under intense attack; pressure on the journal forced them to retract it after 15 months, but it was soon republished a few months later by a more "independent" journal. (That study has successfully passed three separate peer reviews, and is far more comprehensive than any research by the GMO companies.)

The industry's research, on the other hand, is widely criticized as "tobacco science," carefully designed to cover up problems. And just as a Monsanto man guided FDA policy, GMO review

ABOUT JEFFREY SMITH

Jeffrey Smith is the leading consumer advocate promoting healthier non-GMO choices. His feature-length documentary *Genetic Roulette, The Gamble of Our Lives* was awarded the 2012 *Movie of the Year*.

His books include: *Seeds of Deception: Exposing Industry and Government Lies about the Safety of the Genetically Engineered Foods You're Eating*, which is the world's bestseller on GMOs; and *Genetic Roulette: The Documented Health Risks of Genetically Engineered Foods*, which is the authoritative work on GMO health dangers.

He is the founding executive director of *The Institute for Responsible Technology (IRT)*, a leading source of GMO health risk information for consumers, policy makers, and healthcare professionals.

committees worldwide are often stacked with industry representatives who rubber stamp approvals or declare GMOs safe by ignoring data to the contrary.

Now FDA is considering approval of GMO salmon, as well as allowing GMO mosquitoes loose in the Florida Keys. In fact, countless GMO plants, animals, fish, insects and bacteria are being developed in labs around the world. Each could irreversibly contaminate the gene pool. There are also new varieties of corn and soybeans being considered for approval, which tolerate a new range of herbicides that are linked to cancer, birth defects, and other disorders.

Before we let Monsanto replace nature, let's demand independent, comprehensive long-term safety studies. Until then, stop feeding us the products produced by this immature science.

Herbicide Pollution and GMO Labelling

Open letter to the Minister of Health

by Dr. Thierry Vrain

To the Honourable Rona Ambrose, Minister of Health:

The confusion about the safety of GMOs is quite simple to address. The only GMOs in our agriculture are glyphosate modified organisms, also known as RoundUp Ready (RR) crops, and the only GMOs in our food supply are from those crops. RoundUp Ready crops are engineered to be sprayed with the herbicide RoundUp and this technology has become so successful that RoundUp has become a major pollutant.

This chemical pollution is antibiotic, it impacts the microbiome, impairs CYP enzymes and depletes food of essential mineral micronutrients. I recently spoke on these points to the American College of Nutrition conference in San Diego (Texas), and most of the studies I cited were published in the last five years.

Descaling agent

Glyphosate is the active ingredient of the herbicide RoundUp, a new molecule created in 1960 by Stauffer Chemicals—a U.S. company with a business of cleaning industrial pipes and boilers of mineral scales. The mineral deposits (same as in electric kettles) are called scales, and the pipe-cleaning chemicals are called descaling agents. Glyphosate was patented in



1964 in the U.S. as a powerful and very broad-spectrum descaling agent. Meaning, it binds to metals indiscriminately and does a great job at “dissolving and preventing minerals from being reactive or bioavailable in solution.”

When the descaling solution was disposed of in nature, it was obvious that it killed plants. The chemical company Monsanto promptly bought the molecule, patented it as an herbicide in 1969, and got it commercialized in 1974. This molecule is making history because glyphosate has become the most successful agricultural chemical in North and South America wherever RR seeds are used. The farmers using this technology get simpler and cheaper weed management and, despite higher input bills, sometimes disappointing yields and fast-spreading weed resistance, they adopted it in droves.

Novel kill

The herbicide RoundUp had a completely novel chemistry

for an herbicide in 1969. It was deemed to kill plants by bonding to only one protein enzyme in the chloroplasts—the same enzyme that is also in bacteria and fungi. Enzymes are metalloproteins with a metal atom as a cofactor at the active site of the molecule. Bacteria and plants and fungi have a metalloprotein called EPSPS for short and 5-enol pyruvyl shikimate-3 phosphate synthase if you want to know what it does. It works with other metalloproteins to “make” several of the building blocks of proteins, the aromatic amino acids. These molecules are also building blocks for a large number of aromatic molecules we call secondary compounds. Glyphosate binds tightly to the manganese atom at the centre of the EPSPS metalloprotein, so tightly that the protein cannot move and do its work making aromatic amino acids. No protein synthesis means there is no metabolic work possible, a quick death for the plant, or the fungi or the bacteria.

Animals do not make their own aromatic amino acids since

they lack the shikimate pathway with the EPSPS metalloprotein. Because of its presumed mode of killing plants, glyphosate was pronounced innocuous to humans and registered as such in 1974 in the USA. Glyphosate has no acute toxicity, and at the time of registration in the U.S., and even since, nobody has bothered to check for chronic effects beyond three months.

Considering the chemical properties of this pollution one would expect long-term chronic effects, very similar to rickets, scurvy or beri beri, for lack of micronutrients. The industry-sponsored feeding studies proving the safety of GMOs do not include testing for the safety of glyphosate. None of them bother to mention the residue levels of glyphosate in the feed. Meanwhile, a fast-growing series of independent studies in various countries published in the last five years have ascertained the impact of glyphosate on various cellular enzymes and organs of animals and human cells.

RR crops

The first RoundUp Ready crops to be commercialized were soy and corn, released in 1996. Since then, a handful of RR crops have been adopted enthusiastically by farmers, particularly in North and South America. Today close to 500 million acres of soy and corn, and cotton, canola and sugar beet, are engineered to be

sprayed with RoundUp. About 40 percent of all RR crops are grown in the USA, most of the rest are grown in Brazil, Argentina, Canada and a few other countries.

RR crops are now sprayed with close to two billion pounds of glyphosate every year, and so much of that finds its way into processed food and feed that the U.S. Environmental Protection Agency (EPA) had to raise the legal residue limits last year to accommodate a new reality.

Suppresses the microbiome

Glyphosate is a powerful and broad-spectrum antibiotic. The mode of kill is again alleged to be very selective. The glyphosate molecule impairs the functioning of the shikimate pathway in bacteria the same way it does in plants. Only one enzyme is affected in a pathway that animals do not possess. The antibiotic patent describes its effectiveness to kill bacteria at one part per million (ppm) and this was confirmed last year in Germany.

At this point I usually spend a minute or two explaining why a low-level antibiotic diet for the rest of your life is not a good idea. I describe the recent interest of the medical field in a large joint research project involving many universities to decipher the huge community of thousands of species of bacteria that call us home. The Human Microbiome project is the equivalent of the Human Genome project in its scope.

We are vastly outnumbered, roughly 10 to one—one hundred trillion bacterial cells call our lower intestine

home. They are forever sending signaling molecules to each other and to all human organs, particularly the brain. All animals depend on their symbiosis with these bacteria, and humans are no exception. They are the teachers of our immune system, they make many neurotransmitters for our brain, and have a strong connection to the heart and the whole digestive tract. They literally feed us all kinds of molecules that we require—we call them essential, like vitamins. They digest and recycle most of our food. Most human organs rely on molecular signals from the microbiome for normal functioning. As goes the microbiome, so does its human shell.

A recent review of the medical literature on celiac and other diseases shows the link to imbalances of the microbiome that are fully explained by the antibiotic properties of glyphosate. And the same authors published another review of the impact of glyphosate on the CYP enzymes and the microbiome. Samsel and Seneff have suggested that glyphosate's suppression of CYP enzymes and its antibiotic effect on the human microbiome are involved in the etiology of many chronic degenerative and inflammatory diseases that have grown to epidemic proportions since 1996, since the advent of the RoundUp Ready technology.

High residue limits

We lack any official data on residues of glyphosate in food

CONTINUED ON PAGE 56



Customizable nutrition fact sheets and other design strategies for your natural health business.

OSTEOARTHRITIS (OA)

Osteoarthritis arthritis is a degenerative joint disease that typically affects overweight weight men in their 50s and 60s. The cartilage, or cushioning, between joints is slowly lost so that the bones are rubbing against each other. This causes pain and swelling.

PSORIASIS

Psoriasis is a chronic autoimmune condition characterized by rapid overproduction of skin cells. Millions of people in North America are diagnosed with this non-contagious skin disorder. Managing stress, eating a diet low in fat and protein, and high in nutrients and clean drinking water are all ways to address the underlying issues of this condition.

Signs & Symptoms

- Red, raised, scaly areas that are itchy, often found on the elbows, knees, back, and scalp.
- Small, raised bumps that are itchy and often found on the hands or arms.
- Stiffness in the joints, especially in the morning.
- Swelling in the joints, especially in the morning.
- Itching and burning in the affected areas.
- Changes in the nails, such as pitting and thickening.
- Changes in the hair, such as thinning and loss.

Causes & Underlying Factors

- Genetics (about 10% of cases)
- Difficulty digesting proteins - the immune system in the body known as autoimmunity
- Poor nutrition in the diet (e.g. overconsumption of "bad" bacteria, and imbalances in the gut microbiome)
- Poor liver function
- Stress
- Over consumption of saturated animal fats
- Vitamin D deficiency
- Sunburn and over-use of tanning beds can aggravate the condition
- Celiac and Crohn's disease both have links to psoriasis
- High blood sugar, high cholesterol, and carrying too much weight may have links to psoriasis

Dietary Changes for Skin Health

Inflammation is at the core of this skin condition, so a diet that helps reduce inflammation is strongly recommended. Psoriasis sufferers might consider consuming a three- to five-day vegetarian whole food cleanse consisting of lacto-ovo, and lightly cooked vegetables, olive vegetable oils, and low glycemic carbohydrates (e.g. more vegetables than fruit). By abstaining from animal products and all processed foods, the liver is unburdened and the digestive system is given an opportunity to work optimally.

After such a cleanse it is recommended that gluten be avoided for three to six months. Studies have shown that avoiding gluten can help reduce psoriasis symptoms (slowly) when a diet and then be able to eat and drink when they are up and when the condition is under control. Careful observation can help determine what the triggers are and what therapeutic recommendations were best.

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HERBICIDE POLLUTION CONTINUED FROM PAGE 55

or in water in Canada—no epidemiological studies of any kind have ever been done. All we have are the legal maximum residue limits now allowed by the EPA in RoundUp Ready foods: human cereal 30 ppm, animal grain 100 ppm, soybean 120 ppm, and everything else in between.

Here an inquisitive mind will ask why there is such a high residue limit for cereal when none of the grains are engineered to be sprayed with RoundUp. This is when you learn that RoundUp is sprayed on many non-engineered crops with the intent to kill them right before harvest. This is done to mature and dry the crops quickly to make them easier and cheaper to harvest. The RoundUp herbicide has now become a desiccant.

There is direct toxicity to animal cells because glyphosate binds to metals indiscriminately, and not just in plant cells. It binds to metals in solution and to metal co-factors at the centre of metalloproteins anywhere. For example, glyphosate binds to the iron atom at the centre of a large family of protein enzymes called CYP. There are 57 different CYP enzymes in the human body and approximately 20,000 in animals, plants, bacteria and fungi. The CYP enzymes are oxidizers, the first line of digestion and detoxification of most substrates. David Nelson wrote in a review of the CYP enzymes: “The CYP enzymes of humans are essential for our normal physiology and failure of some of these enzymes results in serious illnesses.”

Links to chronic illness

Nancy Swanson has made public her statistical analyses of the US Centre for Disease Control’s statistics about the health status of America when placed next to the statistics of the U.S. Department of Agriculture about the spread of RoundUp Ready soy and

corn. Her correlation analyses show very high coefficient values suggesting strong links between glyphosate residues in RoundUp Ready food and chronic illnesses.

Medical and chemical reviews and peer-reviewed studies have explained the mode of action of glyphosate and its impact on many metalloproteins. Human cell studies have shown acute toxicity and animal studies have shown chronic toxicity. Glyphosate bioaccumulates in the plants and in any animal that eat the plants. Glyphosate accumulates in the lungs, the heart, kidneys, intestine, liver, spleen, muscles and bones, and chronically ill people have higher residues in their urine than healthy people.

To conclude this presentation of the nutritional status of glyphosate modified organisms, I would say that crops sprayed with RoundUp, whether they are RoundUp Ready or not, contain residues of glyphosate, that foods made from RoundUp Ready soy and corn and sugar and canola are depleted of the minerals that are bound to the glyphosate molecules. Foods made from crops containing residues of glyphosate are by

definition depleted of minerals and toxic.

Minister, your reassuring words have been quoted widely. “Currently, there is no ... scientific evidence that says genetically modified foods are unhealthy. It is impossible for us to mandate a label, because our labels have to be based on evidence that it is an unhealthy product for Canadians.” I hope you have found here the scientific evidence you require to act and that you join over 60 governments in the world who have found this evidence compelling enough in the past few years to legislate some form of protection, from labelling to banning RoundUp Ready crops and the herbicide RoundUp. 🌱

Dr. Thierry Vrain wrote this letter on October 27, 2014. He is a retired soil biologist and genetic engineer who spent his whole research career with the Department of Agriculture in Canada. He was the head of a research group of 40 professionals in biotechnology, the vice president and president of national and international associations of soil biologists, and an associate editor of several scientific journals in Europe and in the USA.

Let’s Create a Demand for a Glyphosate Lab in Canada

Tony Mitra is on a mission to get a lab to test for glyphosate in Canada—and he needs your help. An engineer, Tony knows that glyphosate is the poison ingredient in Montanto’s RoundUp and that exposure to it is linked to the rise of various chronic diseases in North America.

While currently a few Canadian labs offer glyphosate testing in water and

soil, there are no labs in this country that will test for traces of glyphosate in the foods we buy and in the urine, blood or breast milk of humans. “Labs are commercial ventures,” Tony notes on his website www.tonu.org. “They will provide a service only if there is sufficient demand.”

Therefore, he is appealing to Canadians to create a demand. To do this, you are encouraged to ask your doctor,

hospital or clinic to test for glyphosate in your urine, blood, or breast milk for nursing mothers, as well as brands of foods your family uses, such as milk, bread or meat. The goal is to generate a demand that labs will respond to by offering this service.

On Tony’s website you’ll find sample letters you can use to request a glyphosate test. For more information, visit www.tonu.org.