



Glyphosate story

India being mass poisoned - and what you might do

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What is this talk about ?

- ✻ *Who am I*
- ✻ *Glyphosate*
 - ✻ *History*
 - ✻ *Science*
 - ✻ *Regulation*
 - ✻ *Media*
 - ✻ *Politics*
 - ✻ *Law*
- ✻ *Problems*
 - ✻ *Birth Defects & disease*
 - ✻ *Geography*
- ✻ *India*
 - ✻ *Poisoning from imported lentils*
 - ✻ *Its everywhere*
 - ✻ *What can you do?*



Who am I

- ✿ Born in India, lived/worked in many countries
- ✿ Got the Canadian Govt to test food for glyphosate
- ✿ Wrote the book

POISON FOODS
of
NORTH AMERICA

GLYPHOSATE IN FOODS FROM COUNTRIES WITH 10 OR MORE SAMPLES

ORIGIN	Nos	ppb	ASSESSMENT
CANADA	1285	140	WORST
UNKNOWN	1455	103	WORST
UNITED STATES	1474	84	WORST
TURKEY	22	170	BAD
TAIWAN	21	140	BAD
POLAND	18	140	BAD
SUBTOTAL	4275	108	BAD
JAPAN	19	19	CAUTION
LEBANON	13	37	CAUTION
ITALY	90	16	CAUTION
INDIA	200	15	CAUTION
SUBTOTAL	322	17	CAUTION
KOREA	11	9	GOOD
BOLIVIA	24	4	GOOD
CHILE	25	5	GOOD
SPAIN	12	5	GOOD
EQUADOR	12	5	GOOD
NETHERLANDS	10	0	GOOD
GUATEMALA	10	0	GOOD
PERU	10	1	BEST
THAILAND	10	0	BEST
FRANCE	10	0	BEST
SOUTH AFRICA	10	1	BEST
MEXICO	10	2	EXCELLENT
CHINA	140	3	EXCELLENT

tony mitra



Glyphosate

History of a disaster in slow motion

- ✻ 1960s - De-scaler for boiler tubes (Stauffer Chemical)
- ✻ 1970s - Pre-planting herbicide (Monsanto)
- ✻ 1990s - Post planting weed killer (GMO) - Human Food
- ✻ 2005 - Pre-harvest *desiccant* (non GMO seed crops) - Rapid rise in seed crops.
- ✻ 2010 - Patented as a broad spectrum antibiotic
- ✻ *It is by far the Most used biocide on earth*





Science

- ✿ *Science is no more public funded & controlled*
- ✿ *Industry has captured science and made it unidirectional*
- ✿ *Science has lost its objectivity, neutrality and honesty*
- ✿ *More voodoo than science*



Science starts with Life on earth

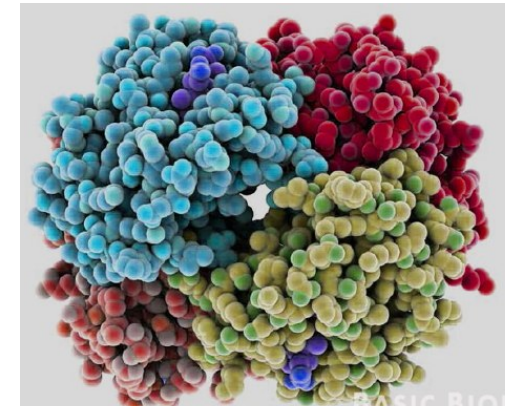
Microbe - plant - animal

- ☼ *Microbes - the first living occupants - produced food*
- ☼ *They invented biosynthesis of amino acids*
- ☼ *Microbial symbiosis helped evolution of plants*
- ☼ *Another symbiosis helped evolution of animals.*
- ☼ **Microbiome**
- ☼ *Microbes are keystone creature in all evolution.*
- ☼ *Shikimate pathway - EPSP Synthase*
- ☼ *Glyphosate blocks EPSPS*

To understand glyphosate's ability to destroy planetary biology in slow motion, one needs to understand the evolutionary process that lead from single cell micro-organisms that invented the process of biosynthesizing (producing) food, to the emergence of larger organisms such as plants and animals, and the **unique common ingredients that constitute proteins for all living creature.**



Proteins
























- ✻ *Very long chain of amino acids - tens of thousands of them, to make each protein.*
- ✻ *Structural proteins - Collagen, Keratin, elastin.*
- ✻ *Hormone proteins - Insulin*
- ✻ *Carrier protein - hemoglobin*
- ✻ *Proteins perform all the functions - do incredible work.*
- ✻ *All proteins of entire living world are made up of just 20 basic amino acids.*
- ✻ ***Glycine** is the most common and key amino acid among them*
- ✻ ***Glyphosate** is a mimic of (analog of) glycine.*



Basic building blocks of life

How glyphosate spoils every organism's biology

List of 20 canonical amino acids						Tony Mitra
Non polar amino acids						
Aliphatic	 Glycine 	 alanine	 valine	 isoleucine	 leucine	
Aromatic	 phenylalanine	 tryptophan	Cyclic	 proline		
Polar amino acids						
Sulfur containing	 cysteine	 methionine	Hydroxyl-Containing	 serine	 threonine	
Aromatic	 tyrosine	Acidic Amide	 asparagine	 glutamine		
Charged Amino Acids (at physiological pH)						
Acidic	 aspartic acid	 glutamic acid	Basic	 histidine	 lysine	 arginine

 Essential amino acids

 Non-Essential amino acids

 Semi-Essential amino acids

 One that glyphosate is analog of

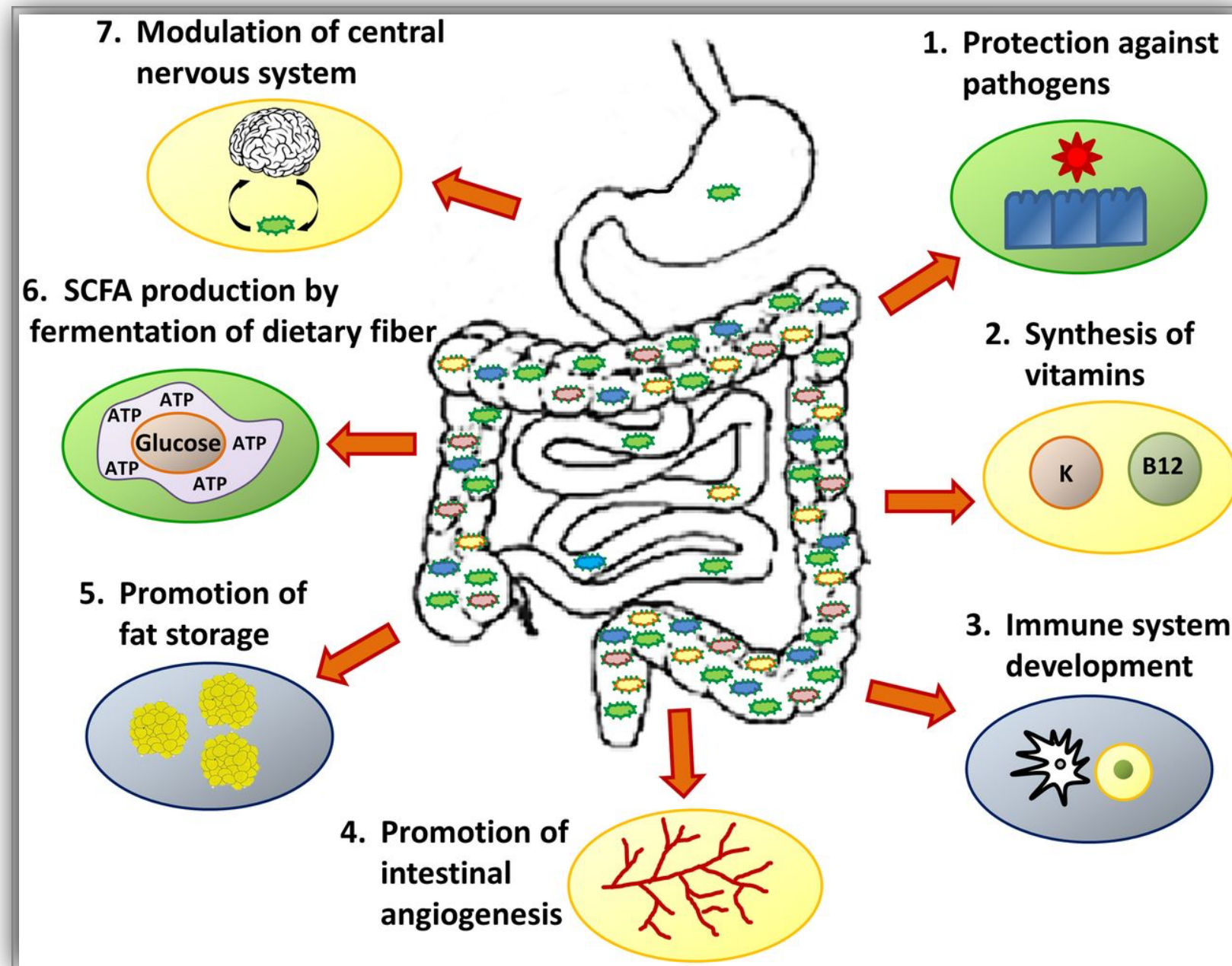


How glyphosate interferes with life

- ☼ Chelator
- ☼ Antibiotic
- ☼ Endocrine disruptor
- ☼ Analog of glycine



100 trillion organisms - 200x genetic code

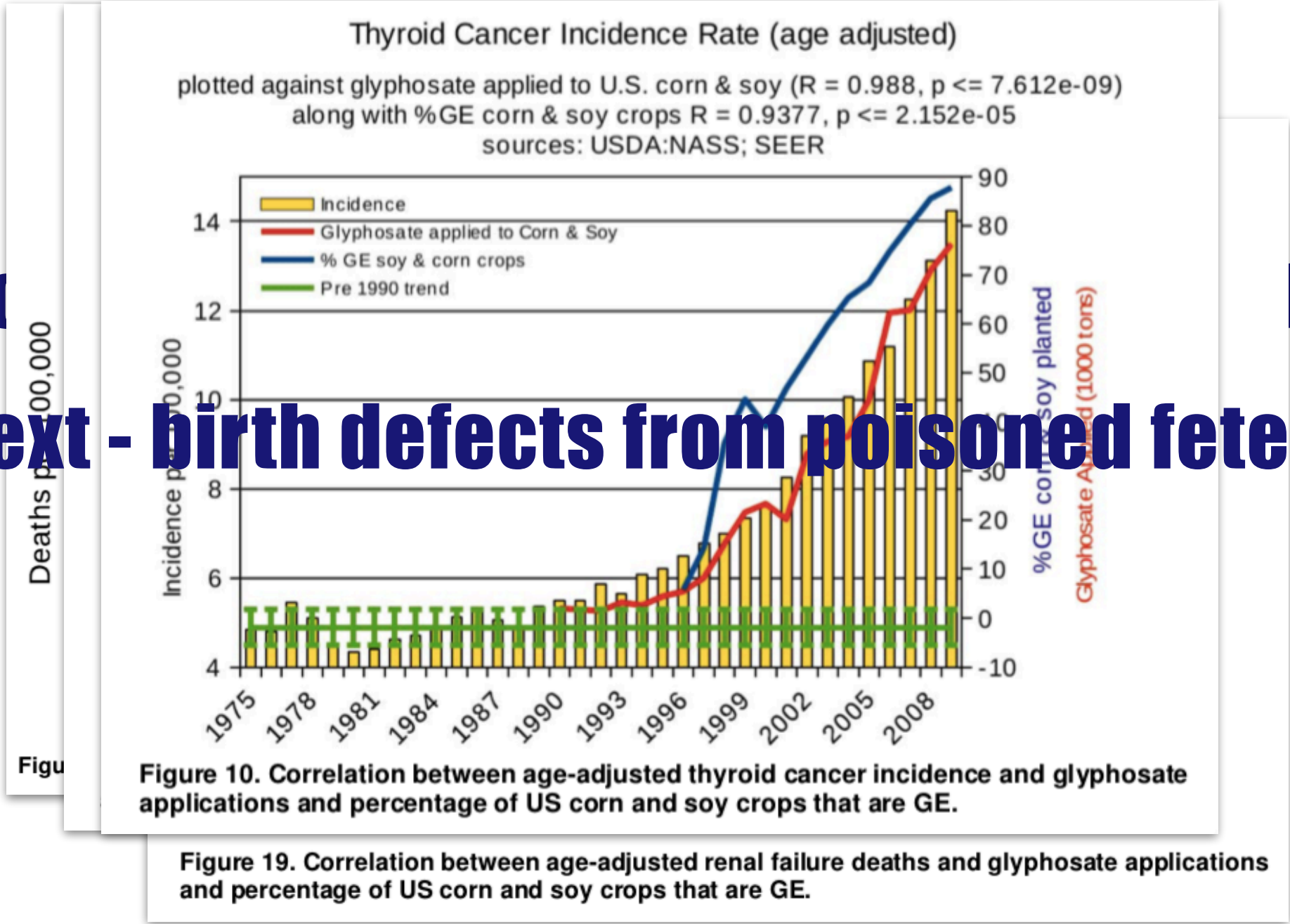


Glyphosate damages everything



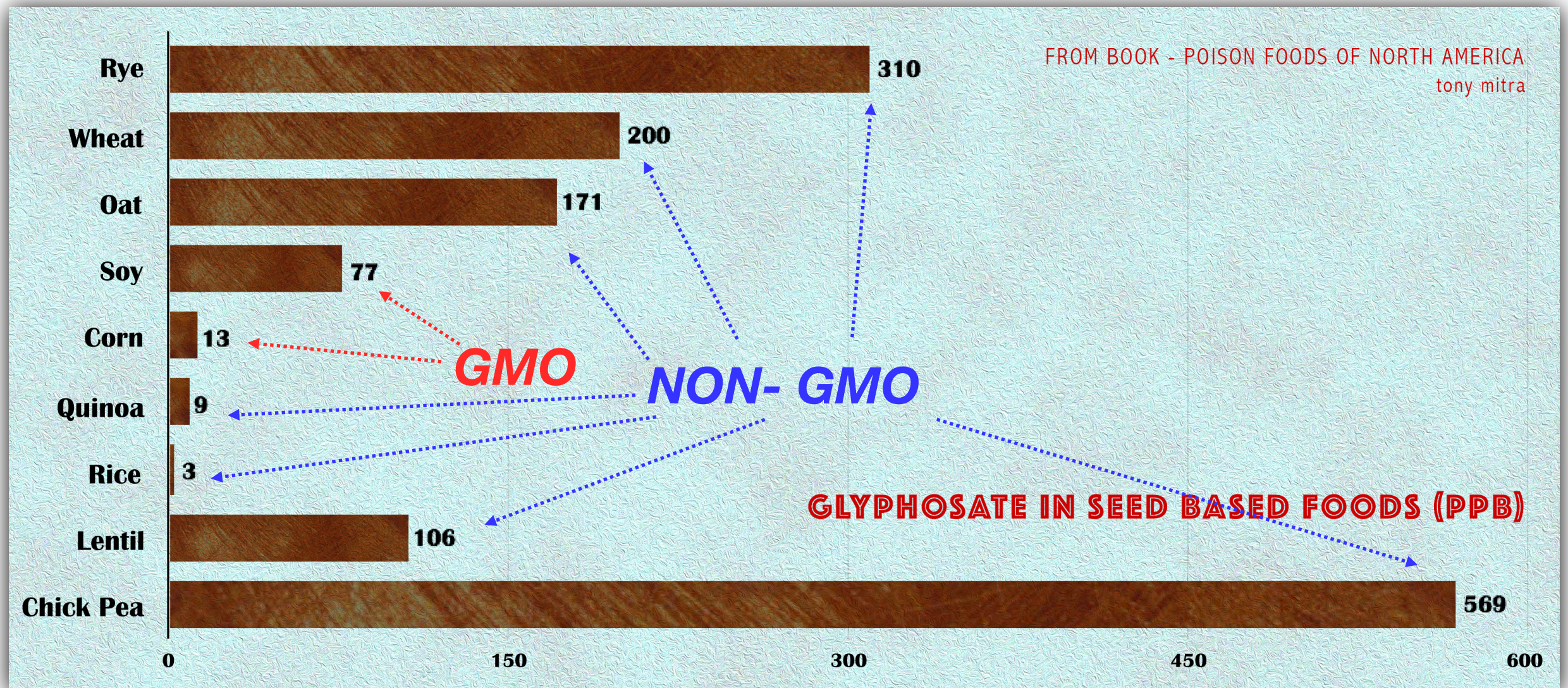
Correlation

Co
Next - birth defects from poisoned fetes
ff





GMO versus non-GMO is an engineered argument





Birth defects in Canadian wildlife



This is where it is heading in India too - unless stopped



Birth defects in Indian gaur





Safety, Regulation, Law, Geography

- ☼ *Safety test documents hidden by all Govts.*
- ☼ *Approval of glyphosate is technically illegal - in my understanding*
- ☼ *Testing of animals exposed to glyphosate discouraged.*
- ☼ *Investigating glyphosate-disease correlation not followed up*
- ☼ *Foods not being tested for presence of glyphosate (except Canada)*
- ☼ *Sri Lanka story - kidney failure and throat cancer*
- ☼ *Argentina story - birth defects*
- ☼ *North American story - a devastation of health & eco system.*
- ☼ *INDIA - absence of information and a news blackout.*



Glyphosate & Human birth defects

Anencephaly - babies born without a brain

One of Argentina's most eminent scientists, late Dr Andres Carrasco, from the University of Buenos Aires, exposed chicken and frog embryos to Monsanto's commercial formulation of glyphosate, called Roundup. He was investigating cause of birth defects in the Pampas where glyphosate is sprayed by aircraft.

"We diluted the formulation 5,000 times, and some of the embryos died and some of them became malformed. I decided to inject pure glyphosate into embryos and we got the same result."

Dr. Alehandra Paganelli reported in 2010 that *"Glyphosate based herbicides produce teratogenic effects on vertebrates"*.

Anencephaly-Glyphosate link is being suppressed and Zika virus, or "unknown cause" being blamed for it.

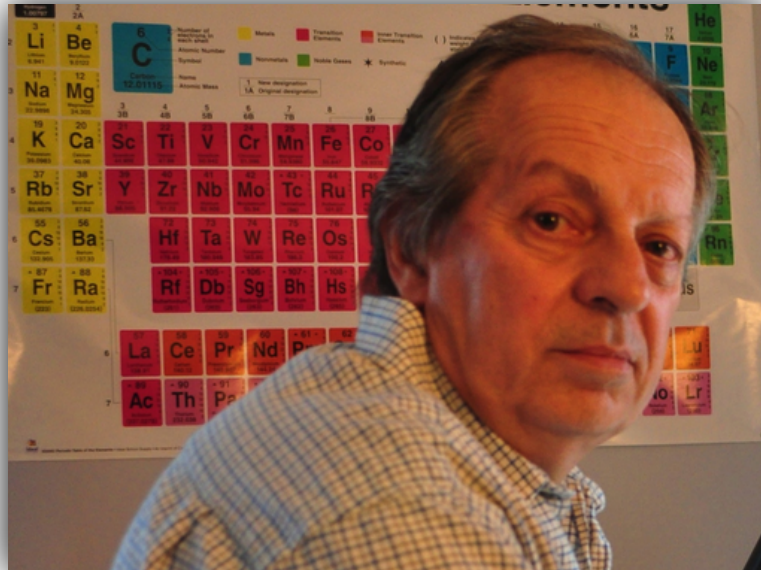
Then there is - Yakima Valley, USA



GLYPHOSATE IS NOT SAFE



Scientists



Anthony Samsel

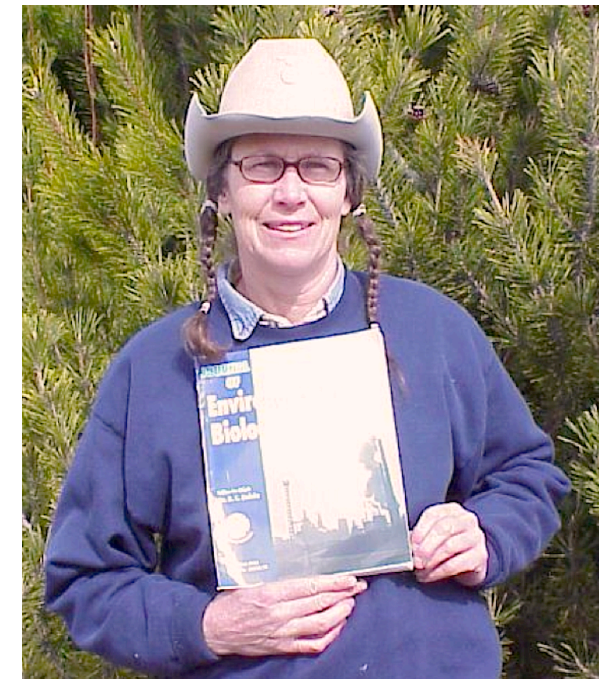


Stephanie Seneff



Don Huber

Judy Hoy





A note from Anthony Samsel

Glyphosate analysis in human teeth

1. 250 ppb
2. 2.79 ppb
3. 91 ppb
4. 9.92 ppb
6. 134 ppb
7. 196 ppb

Glyphosate analysis of human fingernails

1. 363 ppb (finger)
2. 349 ppb (finger)
3. 8.03 ppb (toe)
4. 15.08 ppb (finger)
5. 0.0 not detectable (control subject on an organic diet)

Glyphosate analysis of human spinal disc of 40 year old man diagnosed with age related spinal degeneration

5. 2.40 ppb

(Degradation of collagen from glyphosate?)

BILE ACIDS

1. 24.68 ppb (bovine)
2. 187.8 ppb (porcine)

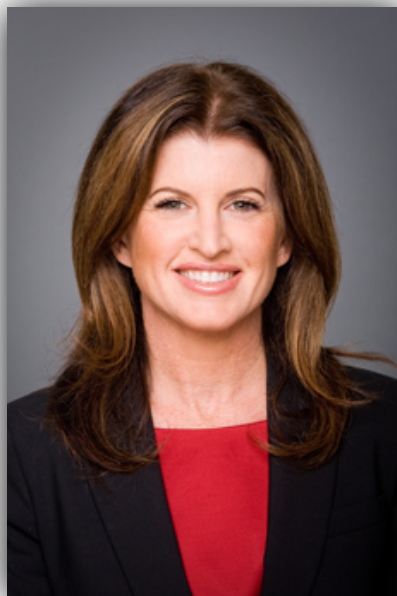
Bovine Semen

1. 30.0 ppb
2. 0.65 ppb

(Affects absorption of fat soluble vitamin A,D,E,K?)



Activism - Canadian example



Minister Ambrose

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BOLIVIA	24	4	GOOD
CHILE	3	0	GOOD
SPAIN	1	0	GOOD
ECUADOR	1	0	GOOD
NETHERLANDS	10	0	GOOD
GUATEMALA	19	0	GOOD
PERU	15	0	BEST
THAILAND	15	0	BEST
FRANCE	15	0	BEST
SOUTH AFRICA	15	0	BEST
MEXICO	70	2	EXCELLENT
CHINA	140	2	EXCELLENT

tony mitra



MP Atamanenko

- ✱ Cut links with all organized resistance groups.
- ✱ Contacted a thousand politicians
- ✱ found one good and one nasty one.
- ✱ Canada became the first and so far the only country to test foods
- ✱ Near 8,000 records of over 3,000 food samples tested



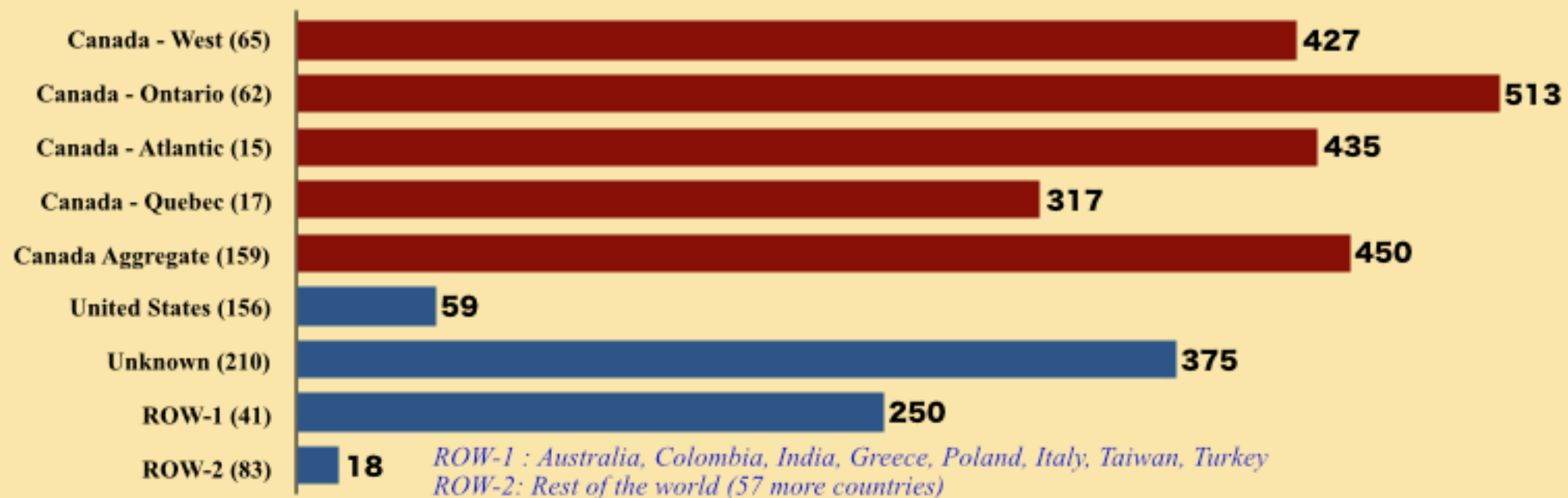
India - mass poisoned ?

- ☼ *Pulses imported from Canada, Australia etc*
- ☼ *Dal millers to be allowed to directly import dal*
- ☼ *High glyphosate in those crops - due desiccation*
- ☼ *No testing of food in India,*
- ☼ **It has gotten into tea, as well as various other beverages**
- ☼ *No data on maximum safe residue levels*
- ☼ *Rampant increase in autoimmune diseases*
- ☼ *Glyphosate is everywhere, bunds, vegetable beds, rubber plantations, tea gardens, roadside, beside railway tracks.*
- ☼ *Unbranded glyphosate sold in plastic cans.*



India - catching up in food toxicity ?

Glyphosate in select seeds (ppb) : Black Beans, Kidney Beans, Pinto Beans, Corn Bran, Oat Bran, Wheat Bran, Barley, Oat, Red Lentil, Pea

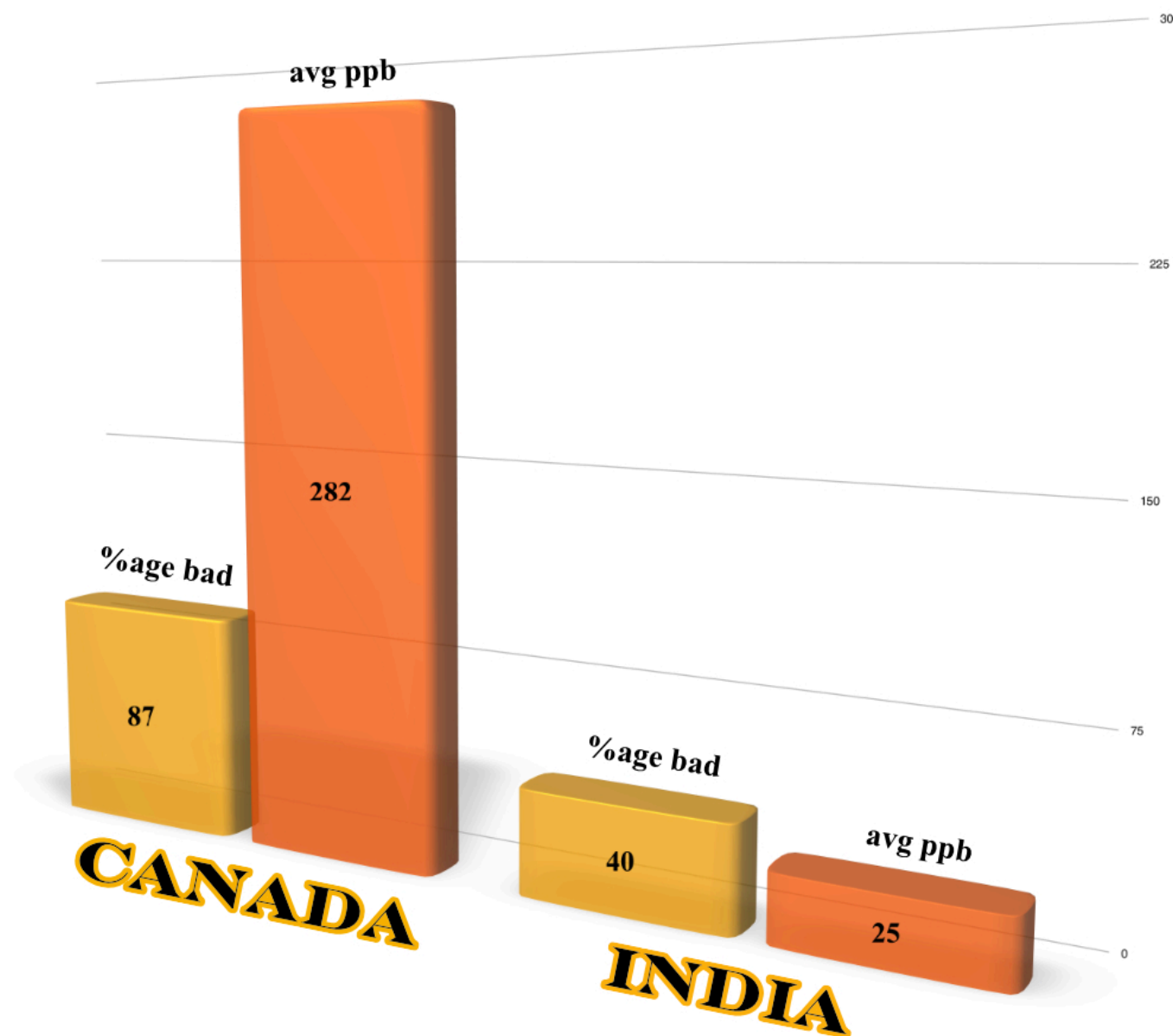


POISON FOODS OF NORTH AMERICA - tony mitra



All is not well with Indian lentils

THE LENTIL STORY





India under autoimmune epidemic

The rise of the killer cells

Autoimmune disorders are on the upswing in India. T.V. Jayan on the latest menace to hit Indians



From Indian Mainstream Media

- ✻ *India is facing a rising tide of autoimmune disease*
- ✻ *That it is rooted in dysfunctional immune system*
- ✻ *That gut microbiome appears to be involved in the immune system*
- ✻ *That quality of food seems linked to healthy gut microbiome which in turn avoids/delays or reverses autoimmune disease*
- ✻ *Yes - the glyphosate connection is missed/ omitted.*



Media catching up

Imp

87% of Ca

S.N.V. SUDHIR | DC
VIJAYAWADA, JULY 18

Indians are consuming highly toxic lentil (masoor dal) and moong dal that are imported from Canada and Australia respectively. These lentils and moong dal are induced with herbicide Glyphosate, that is being used by Canadian and Australian farmers indiscriminately to clear weeds.

Tests conducted by Canadian Food Inspection Agency (CFIA) on thousands of samples of these lentils and moong dal grown by farmers in Canada and Australia found an average 282 parts per billion (PPB) and 1,000 parts per billion of glyphosate respectively which is extremely high on standards.

Some lentils that were imported from India by some Canadian restaurants showed 25 parts per billion of glyphosate. India has been traditionally the biggest producer and consumer of pulses. Recently it has also become a huge importer of pulses.

On an average, India has been importing 5 to 7 million tonnes of pulses annually. Almost half this quantity is imported from Canada and Australia. Remaining is imported from Myanmar, Ukraine, Russia and some African countries.

Glyphosate is known to be highly toxic and harmful to human health. It adversely affects the immunity to several serious diseases and the absorption of mineral and vitamin nutrients, apart from disrupting protein-related functions.

"India appears to import a lot of pulses from Canada, Australia and Myanmar. I have seen test records of Canadian grown pulses which are all desiccated by glyphosate, unless one source certifies organic products that are not available in any large quantity. I also have seen results of test on Australian moong dal (known as moong beans in Canada) as tested by the CFIA which also had over 1,000 parts per billion of glyphosate. India is importing these also.

Consumers do not seem to know if or when they are buying Canadian lentils or lentils mixed with local produce, and hence much glyphosate is in their dal. Ironically, Canadians don't consume these pulses but are growing them.

Imported lentils laced with weed killer

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Farmers warned against using glyphosate without proper gear

DC CORRESPONDENT
VIJAYAWADA, JULY 18

Food safety and agricultural scientists are warning that the use of glyphosate may prove lethal. They are citing the example of Sri Lanka, where many sugarcane farmers died due to

renal failure after being overexposed to the herbicide.

Glyphosate is a popular herbicide among farmers in the Telugu speaking states. Glyphosate is officially allowed to be used in only tea gardens, but is available across the country under various names and brands. "While farmers have to wear astronaut suit kind of gear while using glyphosate, it's not the case in countries such as India and Sri Lanka," said Mr Tony Mitra, Indian born Canadian food security activist.

They are buying Canadian lentils or lentils mixed with local produce, and how much glyphosate is in their dal. Canadians do not consume these pulses which are grown to be exported to other countries, especially India. In Canada, in one of the provinces, some farmers are used to grow pulses only to be exported to India," Mr Mitra said.

He added that 87 per cent of Canadian lentils were contaminated and the average level of contamination was 282 parts per billion. Only 40 per cent of Indian samples were contaminated while the average was 25 parts per billion.

Food safety activists said every imported agriculture commodity needed to be tested for chemical residues but

this was being ignored here.

"While it is mandatory to label organic products, imported pulses are not labelled. It's very difficult to find out if we are consuming Canadian pulses or locally grown ones, if they are sold in loose. In some supermarkets, some pulses are sold in packets and some are sold in bulk. Consumers will have a choice whether to buy the packet or not," said Dr G.V. Ramanjaneyulu, agricultural scientist and founder of Centre for Sustainable Agriculture.

"At the entry points, these imported pulses are not being checked for glyphosate residue due to which pulses induced the highly toxic chemical from other countries are making their way into India and ultimately into the stomachs of Indians," he said.

ACTIVIST FORCES CANADA TO TEST FOOD SAMPLES

DC CORRESPONDENT
VIJAYAWADA, JULY 18

An India-born Canadian citizen, Mr Tony Mitra, has made the Canadian government test food samples for glyphosate, a dangerous herbicide. It took years of effort for Mr Mitra, a retired marine engineer and has turned food security activist, before the Canadian government agreed.

The testing revealed that pulses that are imported to India from Canada and Australia are highly toxic. "It took almost five years to make the Canada government test food items and agricultural products imported from outside for glyphosate."

He said the CFIA had collected thousands of samples and the results were shocking. "That is how I came to know that extremely toxic pulses, grown in Canada and Australia, are being imported by India," Mr Mitra said.

He said the people in India need to find ways to force their government to initiate broad-based testing of food. "This is the only way Indian consumers will know how much of glyphosate they are consuming daily from their food," he said.

BENGAL MEDIA SEEMS TO BE ABSENT



India - Prediction

- ✻ *Medical system may face a near collapse within the next two decades.*
- ✻ *Agriculture - ditto*
- ✻ *We shall not know unless India exposes hidden documents, & tests food & disease*
- ✻ ***This is where citizen activism can be critical.***



Demand transparency

- ✻ *Statistics on glyphosate*
 - ✻ *sale volume of glyphosate,*
 - ✻ *number of glyphosate based brands.*
 - ✻ *glyphosate content in food,*
 - ✻ *separate tests of imported pulses.*
 - ✻ *diseases & frequency,*
- ✻ *Documents and data*
 - ✻ *safety documents*
 - ✻ *MRL - proof*
- ✻ *Initiate*
 - ✻ *independent safety tests on glyphosate*
 - ✻ *Independent and regional testing of food*



Walk alone, if needed



Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.

DOING NOTHING IS NOT AN OPTION



Thank you

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