





Outline What is glyphosate? How glyphosate affects the gut barrier Glyphosate in vaccines Glutamate and glyphosate synergy in MMR Autoimmune disease through molecular mimicry Summary





Roundup as a Desiccant/Ripener just before Harvest





Is Glyphosate Nontoxic?

- Monsanto has argued that glyphosate is harmless to humans because we don't have the shikimate pathway which it disrupts in plants
- However, our gut bacteria DO have this pathway
 - They use it to supply us with essential aromatic amino acids (precursors to neurotransmitters, thyroid hormone and B vitamins)
- Other ingredients in Roundup greatly increase glyphosate's toxic effects
- Insidious effects of glyphosate accumulate over time
 - Most studies are too short to detect damage



Glyphosate and the Gut

- Glyphosate has been found as a contaminant in digestive enzymes trypsin, pepsin and lipase*
- Trypsin impairment prevents proteins like gluten in wheat from being digested
- Undigested proteins induce release of zonulin which opens up gut barrier**
- Zonulin lingers because trypsin is defective

*A Samsel and S Seneff. J Biol Phys Chem 2017;17:8-32 ** JJ Gildea et al. J Clin Nutr Diet. 2017, 3:1.















Glyphosate in Vaccines

Glyphosate in Vaccines? For MMR, flu vaccine, and rabies vaccine, live virus is grown on *gelatin* derived from ligaments of pigs and *fetal bovine serum*Cows and pigs are fed GMO Roundup-Ready corn and soy feed Gelatin is derived from collagen which is highly enriched in *glycine* and also contains *glutamate*These two neurotransmitters excite the NMDA receptors in the brain Glyphosate stimulation of NMDA receptors could cause neuronal burnout













Glyphosate Contamination in Vaccines (Parts Per Billion)*

Merck	ZOSTAVAX	0.62	Shingles
Merck	MMR-II	3.74	Measles, Mumps and Rubella
Merck	VARIVAX	0.56	Varicella, Chicken Pox
MERCK	PNEUMOVAX	ND	Pneumococcal 18
MERCK	PROQUAD	0.66	Measles, Mumps, Rubella, Varicella
GSK	ENERGIX-B	0.34	Heptatitis B

*A Samsel and S Seneff, Journal of Biological Physics and Chemistry 2017;17:8-32.

Symptoms of Adverse Reactions to MMR before and after 2002*

ľ	More Common Bef	ore 2002	
Reaction	Count Before 2002	Count After 2002	<i>p</i> -value
joint pain	126	65	0.036
	More Common Af	ter 2002	
Reaction	Count Before 2002	Count After 2002	<i>p</i> -value
hospitalization	71	319	0.00037
seizures	203	462	0.0014
shortness of breath	100	216	0.010
hives	324	504	0.011
mumps	5	51	0.014
abscess	51	120	0.022
autism	69	143	0.024
eczema	4	36	0.026
ear infection	f16	56	0.031
anaphylactic shock	16	54	0.034
facial swelling	45	95	0.040
swelling	860	1018	0.048
Data ana	alyzed from the v	VAERS database	9
	*A Samsel and	S Seneff. J Biol Ph	ys Chem 2

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The Purdue Vaccination Studies and Autoantibodies*

"The Purdue studies ... found that vaccinated dogs were developing autoantibodies to their own *collagen*"



*http://www.dogsnaturallymagazine.com/purdue-vaccination-studies/



Measles Virus and Haemagglutinin*

- The measles virus synthesizes the protein haemagglutinin
 - Antibodies to haemagglutinin are essential following MMR vaccination to induce immunity
- · Measles virus infects brain due to leaky barrier
- Haemagglutin bears a sequence resemblance to myelin basic protein (MBP) → potential for autoimmune reaction
- MBP is essential for the formation of the myelin sheath surrounding nerve fibers
- Autoantibodies to MBP along with excessive levels of antibodies to measles haemagglutinin are linked to autism**

*Oldstone, MBA, Ed. Molecular mimicry: Infection inducing autoimmune disease. Springer Berlin Heidelberg; January 9, 2006.

**VK Singh et al., J Biomed Sci 2002;9(4):359-64.



Summary

- Glyphosate's insidious cumulative toxicity may be due to its ability to get into proteins by mistake in place of glycine
- Glyphosate has been detected in multiple vaccines, with highest concentrations in MMR
 - Many vaccines include gelatin and fetal bovine serum as ingredients, both of which are contaminated with glyphosate
- Glyphosate and glutamate (from the vaccine) can excite NMDA receptors, and cause neuronal burnout
- Glyphosate contamination leads to resistance to breakdown and autoimmune disease through molecular mimicry
 - A causal link between MMR and autism can be explained through autoimmune attack on myelin basic protein via molecular mimicry with measles haemagglutinin
- Multiple large proteins found in vaccines are allergenic and they may be a causal factor in food allergies and anaphylaxis