

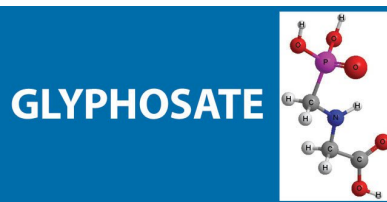
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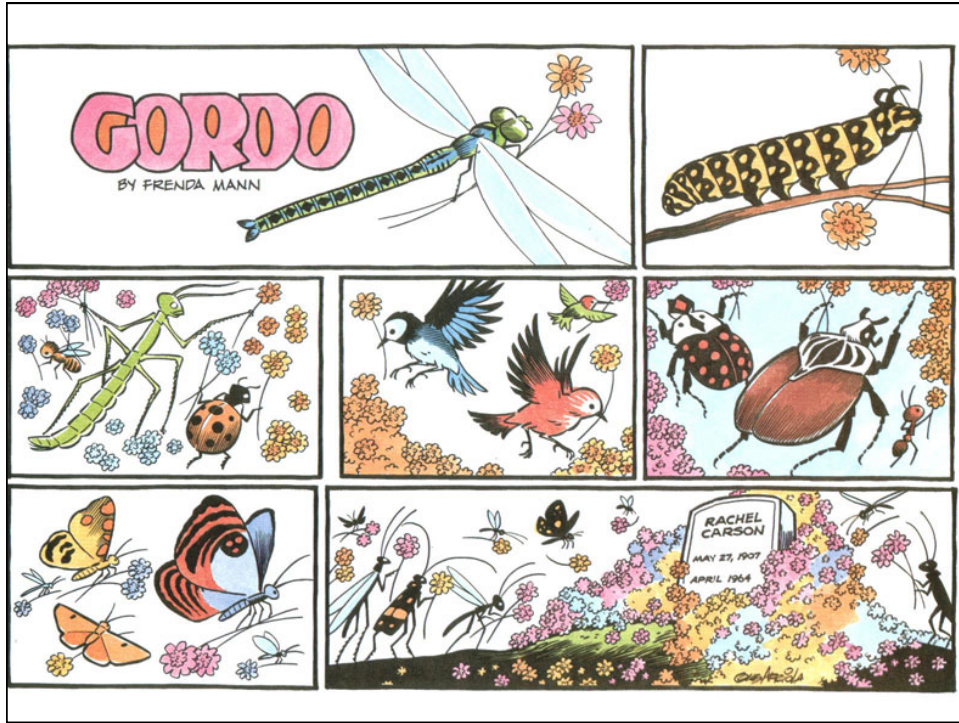
[http://people.csail.mit.edu/seneff/2017/Hawaii\\_winter\\_2017.pptx](http://people.csail.mit.edu/seneff/2017/Hawaii_winter_2017.pptx)



## Connecting the Dots: Autism, MMR Vaccine and Roundup

Stephanie Seneff  
CSAIL, MIT  
Oahu, Hawaii  
February 22, 2017





## **On Glyphosate Contamination in Food Products ...**

“It is heartbreaking to see how this toxic, dangerous and unnecessary technology can strong arm its way into every facet of a supposedly democratic system and pollute its science, regulatory mechanism, academia, media, and the widest imaginable swath of political process, leaving virtually no clear avenue for the people to correct this wholesale chemical attack on society and an assault on nature.”

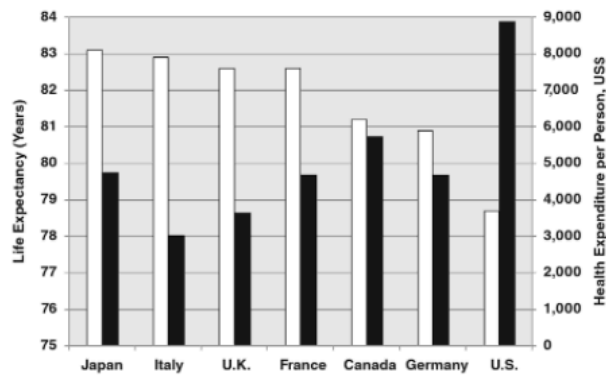
Tony Mitra, *Canadian activist*

## **Outline**

- Introduction
- Glyphosate in proteins
- Gluten intolerance
- MMR and autism: the evidence
- Glyphosate in MMR?
- Political developments
- Gardasil
- Other vaccines
- How to safeguard yourself and your family
- Summary

# Introduction

## Life Expectancy vs Health Expenditure



**Figure 14-5.** Life Expectancy versus Health Expenditure per Person, Group of Seven Countries, 2012

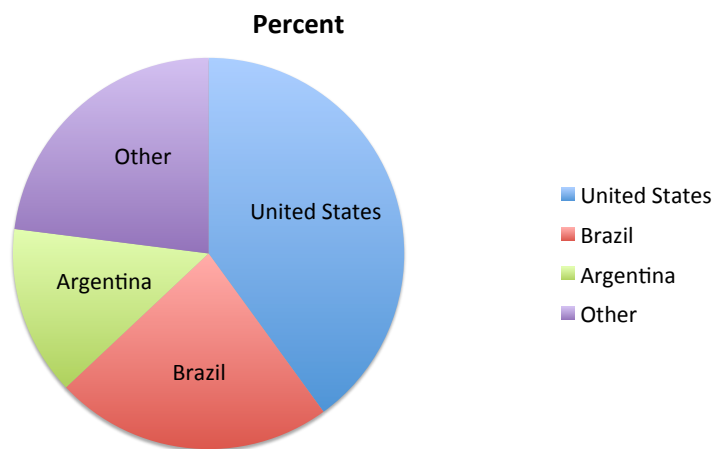
Source: The World Bank (2014). "World Development Indicators," Tables 2.15 and 2.21.

## Some Statistics\*

- Less than 0.1% of pesticides applied to crops worldwide reach their specific targets
  - The rest is spilled out into the environment
- There are more than 7750 formulations of glyphosate
- Until 2008, U.S. was the world's largest consumer of pesticides
  - Brazil took that distinction since 2008.

\*L de Brito Rodrigues et al., Environ Toxicol Chem Aug 12, 2016:1-9 [Epub ahead of print].

## Genetically Modified Crops: Distribution\*



\*N Wagner et al., Environ Toxicol Chem 32:1688-1700.

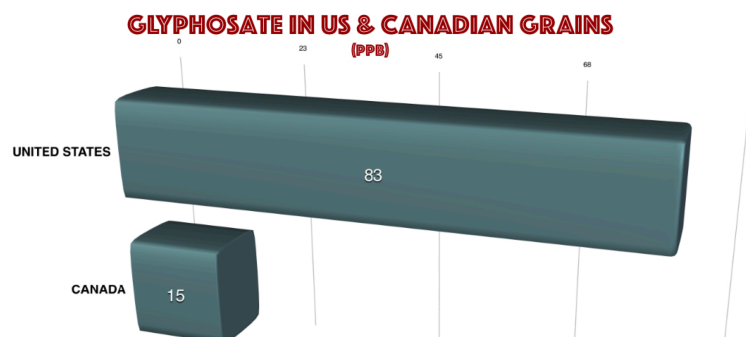
## Results for Glyphosate Testing for Various Foods:

**Tony Mitra, Canadian Activist\***

- 59% of non-organic and **57% of organic** foods tested contained Glyphosate/AMPA
- Far higher levels in the non-organic food
- Extremely high levels in lentils and beans
- Dairy and wheat-based products mysteriously absent from tests

[\\*http://www.tonu.org/2017/01/08/cfia-glyphosatestest/](http://www.tonu.org/2017/01/08/cfia-glyphosatestest/)

## Some Analyses from Tony Mitra (from first 2500 records in CFIA data)



First 2,500 records from CFIA has some samples in general category of "grains". However, no regular wheat has been found in them yet. Instead, they comprise of grains of quinoa, buckwheat, kamut, barley, rice etc. This chart includes all such references, creating a general average glyphosate content in grains from Canada and USA, and does not separate organic from non-organic. Readings from other countries had zero glyphosate & are excluded from this chart.

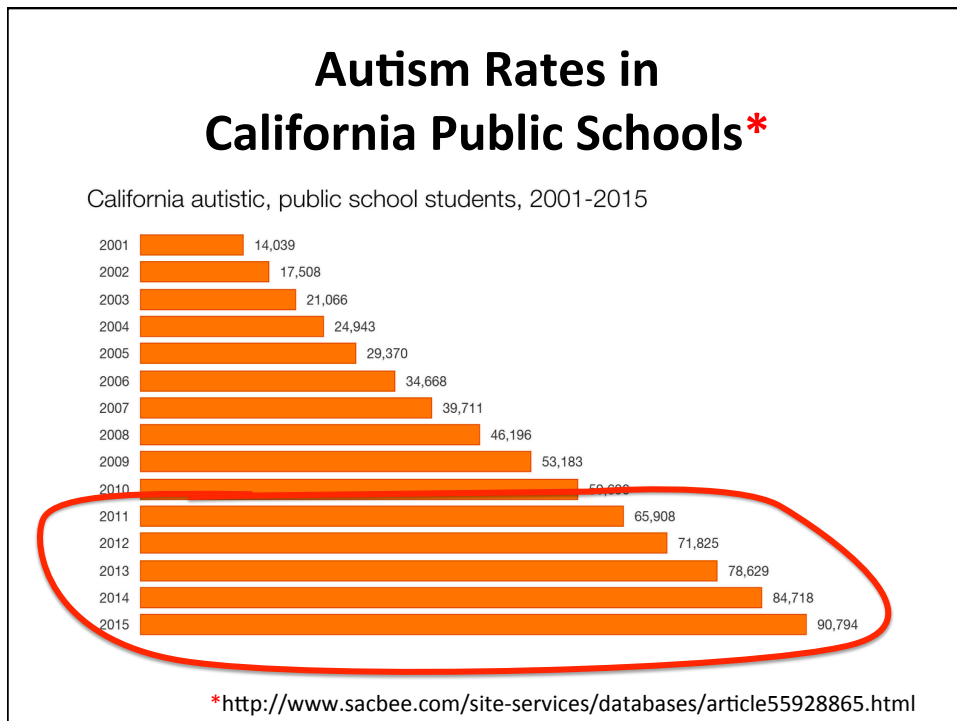
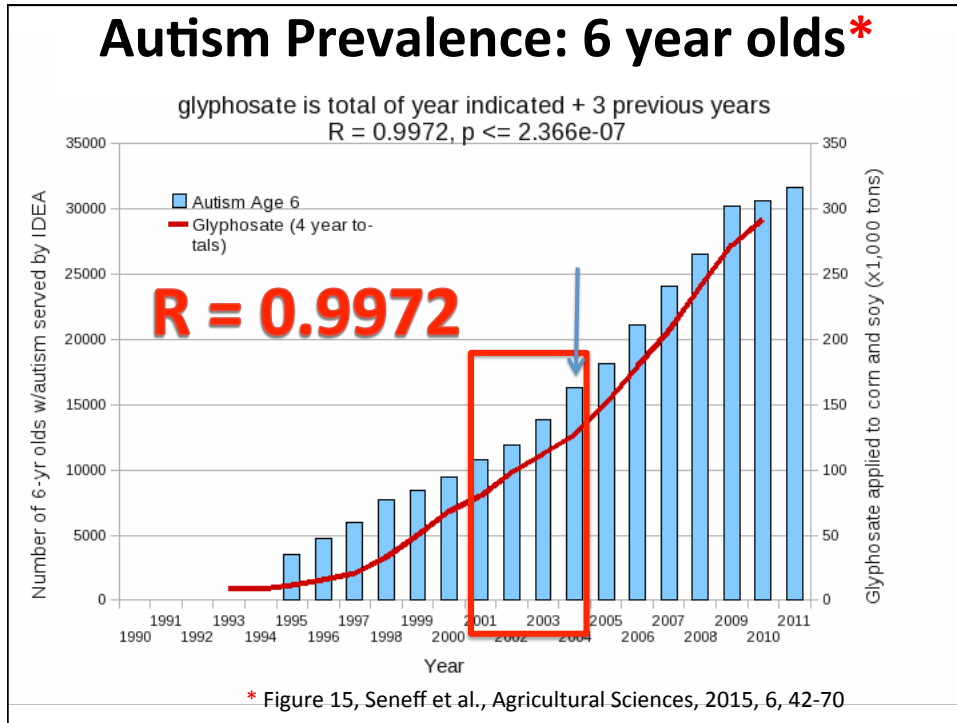
## **America's Children are in Trouble!**

- It is now "normal" for a kindergarten child to have 12 colds every year and for a baby to have nine.
- Fourfold increase in childhood obesity
- Double the asthma rate since the 1980's
- "Chronic illnesses" rose from 1.8% in 1960 to 7% in 2004.
  - Today, 43% of US children are chronically ill.
- 1 in 6 children in the USA has a neurodevelopmental disability
- 1 in 38 boys are autistic
- US has the worst neonatal death rate of all industrialized countries.
- Today's children in the US will have a shortened life span compared to their parents.

## **Autoimmune Disease: An Invisible Epidemic\***

“Taken together, the number of people suffering from autoimmune diseases is 24–50 million Americans, 16% of the US population. To put it in perspective, autoimmune disease prevalence equals heart disease and cancer combined.”

\*Feldman B, Martin EM, Simms T. An Invisible Epidemic — When your body attacks itself — Autoimmune Disease; How Reframing the Data Unveils a Public Health Crisis Bigger than Cancer and Heart Disease Combined. [www.tincture.io](http://www.tincture.io).





**CASE REPORT**

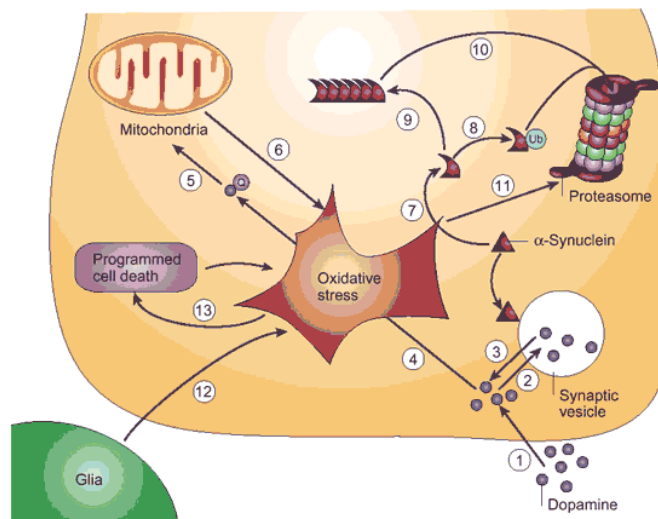
### Elevated Urinary Glyphosate and Clostridia Metabolites With Altered Dopamine Metabolism in Triplets With Autistic Spectrum Disorder or Suspected Seizure Disorder: A Case Study \*

*William Shaw, PhD*

- Triplets: two boys, one girl. Both boys have autism and girl has seizure disorder
- Very high levels of glyphosate in urine in all three
- Chlostridia overgrowth due to glyphosate disruption of gut microbes
  - Toxic Clostridia metabolites lead to excess dopamine expression
- Damage to neuronal mitochondria and neurofibrils through oxidative stress

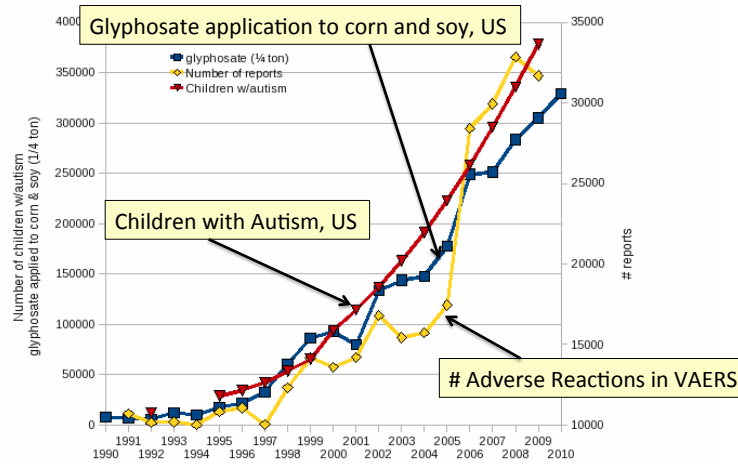
\*W. Shaw. Integrative Medicine 2017;16(1);50-57.

### Oxidative Stress due to Excess Dopamine Leads to Neuronal Cell Death \*



\*Figure 1. JK Andersen, Nature Reviews Neuroscience 5, S18-S25 (2004).

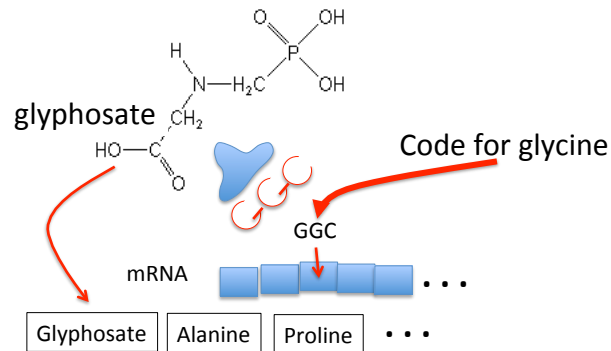
## Autism, Glyphosate, Vaccine Reactions\*



\*Collaboration with Dr. Nancy Swanson

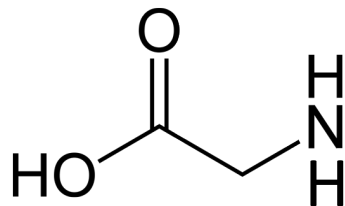
## Glyphosate in Proteins

## What If Glyphosate Could Insert Itself Into Protein Synthesis by mistake???



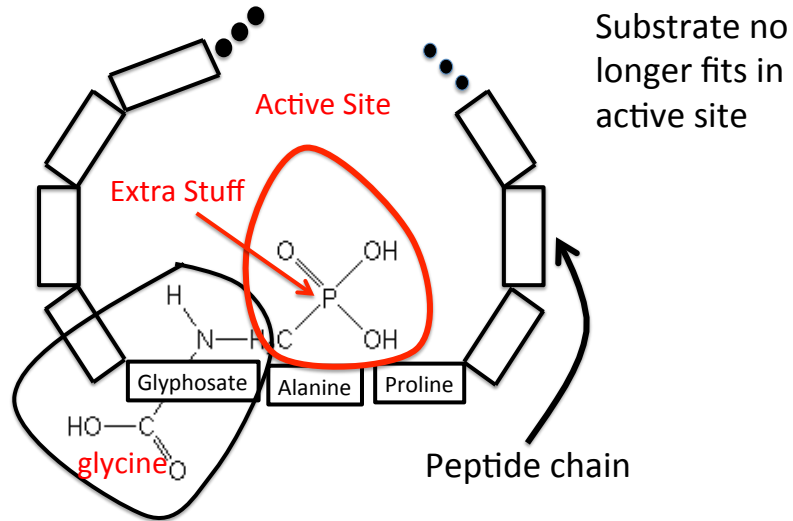
Any proteins with conserved glycine residues are likely to be affected in a major way

## Glyphosate is a non-coding amino acid analogue of glycine



**Glyph**esate

## Extra Piece Sticks Out at Active Site



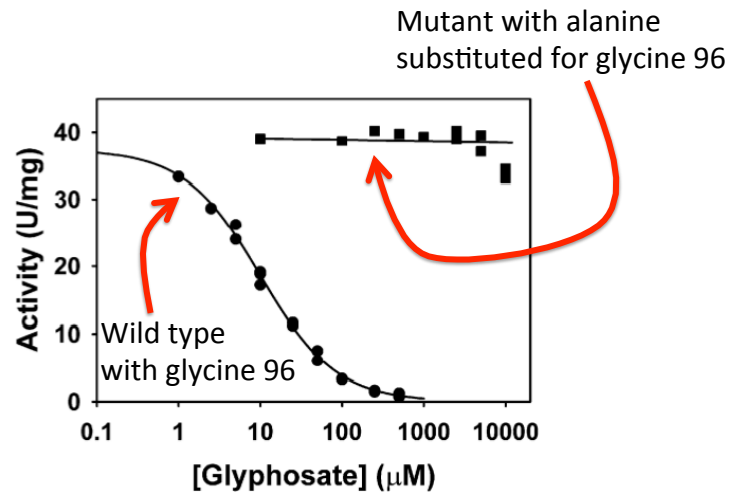
## Extra Piece Sticks Out at Active Site

Substrate no longer fits in active site

This explains how glyphosate disrupts EPSPS in the shikimate pathway:  
 Multiple bacteria have developed resistance by replacing active site glycine with alanine and this is the basis for GMO Roundup Ready crops\*

\*T Funke et al., Molecular basis for the herbicide resistance of Roundup Ready crops. PNAS 2006;103(35):13010-13015.

## Inhibition of EPSPs by glyphosate: Resistant E coli mutant\*



\*Figure 3, S Eschenburg et al. Planta 2002;216:129-135.

## Some Predicted Consequences\*

- Neurological diseases
- Autoimmune diseases
- Chronic fatigue syndrome
- Impaired collagen  $\rightarrow$  osteoarthritis
- Fatty liver disease
- Obesity and adrenal insufficiency
- Impaired iron homeostasis and kidney failure
- Insulin resistance and diabetes
- Cancer

\*Samsel A and Seneff S. Journal of Biological Physics and Chemistry 2016;16:9-46.

## Some Predicted Consequences\*

- Neurological diseases
- Autoimmune diseases
- C
- I
- F
- Obesity and adrenal insufficiency
- Impaired iron homeostasis and kidney failure
- Insulin resistance and diabetes
- Cancer

All of these diseases can be linked to proteins that absolutely depend on glycine to function properly

\*Samsel A and Seneff S. Journal of Biological Physics and Chemistry 2016;16:9-46.

## Neurological Diseases

At least four neurological diseases related to misfolded proteins involve conserved glycine residues

Disease	Protein	Reference
Alzheimer's	Amyloid beta	Munter et al.
Parkinson's disease	Alpha synuclein	Du et al.
ALS	TDP-43	Pesiridis et al.
Prion diseases	Prion proteins	Harrison et al.

L-M Munter et al. The EMBO Journal 2007; 26: 1702-1712.

H-N Du et al., Biochemistry 2003; 42: 8870-8878.

S Pesiridis et al., Hum Mol Genet 2009; 18(R2): R156-R162.

CF Harrison et al., J Biol Chem 2010; 285(26): 20213-20223.

## Protein Phosphatase I and Autism

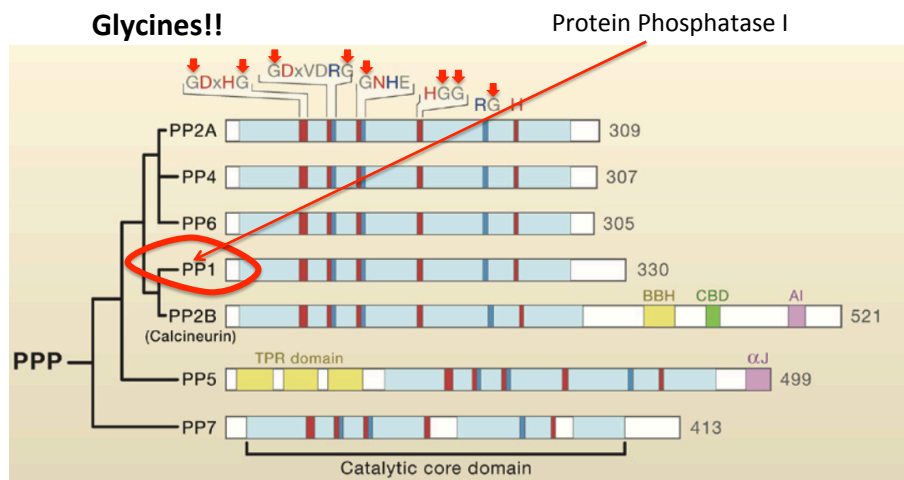
- Glyphosate exposure to rat dams led to thyroid deficiency in pups\*
  - Attributed to suppressed release of thyroid stimulating hormone (TSH) from the dam's pituitary
- Thyroid deficiency in mom during pregnancy predicts significant increased risk to autism in child\*\*
- Glyphosate link to impaired TSH due to disruption of protein phosphatase I\*\*\*

\*JS deSouza et al., *Toxicology To Appear*, 2017

\*\*GC Román, *Ann Neurol* 2013;74(5):733-42.

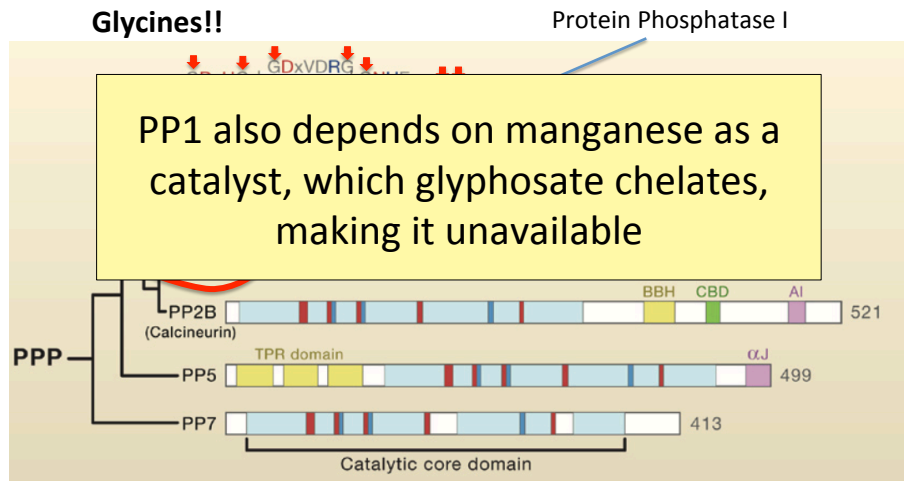
\*\*\*JE Beecham and S Seneff. *Journal of Autism* 2016;3:1.

## Protein Phosphatase 1 Has Many Highly Conserved Glycines!\*



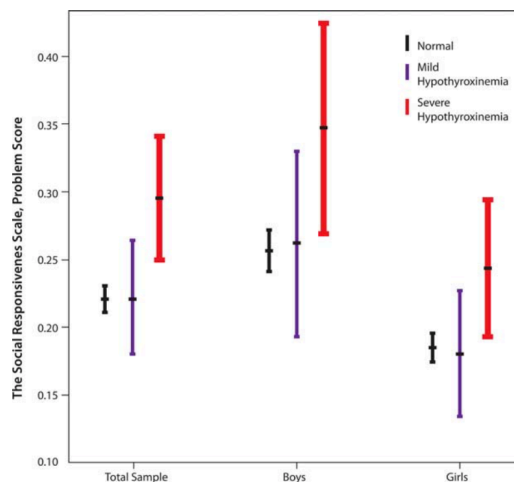
\*Figure 1, Y. Shi, *Cell* 2009;139: 468-484.

## Protein Phosphatase 1 Has Many Highly Conserved Glycines!\*



\*Figure 1, Y. Shi, Cell 2009;139: 468-484.

## “Association of Gestational Maternal Hypothyroxinemia and Increased Autism Risk”\*



\*GC Román, Ann Neurol 2013;74(5):733-42.

FIGURE 2: Maternal hypothyroxinemia in early pregnancy and autistic symptoms in the children at age 6 years.



## Recapitulation

- Glyphosate may substitute for glycine by mistake during protein synthesis – coding error
  - This has huge consequences everywhere
  - Mutating to lose an active-site glycine is how the bacterial enzyme, EPSPS, gets protected from glyphosate suppression
  - This forms the basis of GMO Roundup Ready crops
- Nearly all of the strong correlations between glyphosate usage on core crops and the rapid rise in incidence of a number of debilitating diseases can be explained through protein disruption by glyphosate incorporation
- Protein phosphatase I inhibition by glyphosate can result in thyroid deficiency which is linked to autism in the fetus of an affected woman

## Gluten Intolerance

## Hypothesis

- Glyphosate exposure sets up a weakened immune system, a leaky gut barrier and a leaky brain barrier
- Glyphosate contamination in proteins makes them hard to break down
- Person develops overactive antibody response to foreign protein contaminated with glyphosate and, through molecular mimicry, this leads to autoimmune disease
- This easily explains gluten intolerance and other food allergies

## Food Allergies

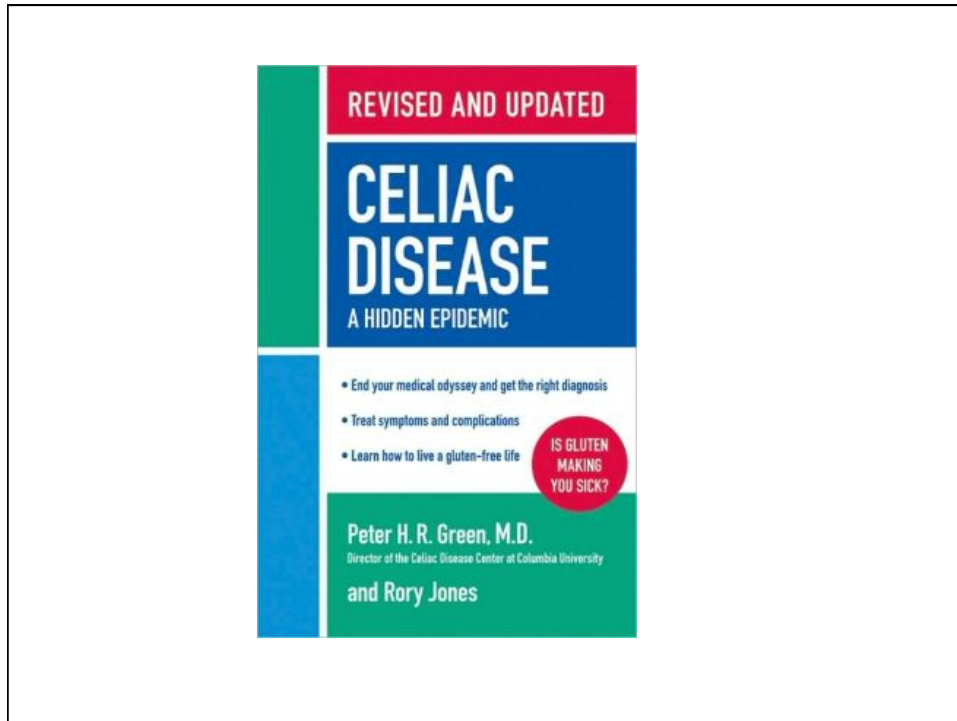


## Food Allergies



All of these foods can be expected to be contaminated with glyphosate, given how they're produced





## Celiac Disease, Glyphosate and Non Hodgkin's Lymphoma

- Glyphosate preferentially kills bifidobacteria\*
- Bifidobacteria are depleted in Celiac disease\*\*
- Celiac disease is associated with increased risk to non Hodgkin's lymphoma\*\*\*
- Glyphosate itself is also linked directly to non Hodgkin's lymphoma\*\*\*\*

\* A.A. Shehata et al., Curr Microbiol. 2013 Apr;66(4):350-8.

\*\* M. Velasquez-Manoff, NY Times Sunday Review, Feb. 23, 2013.

\*\*\* C. Catassi et al., JAMA. 2002 Mar 20;287(11):1413-9.

\*\*\*\* M. Eriksson et al., Int J Cancer. 2008 Oct 1;123(7):1657-63.

## “Herbicide Resistant Ryegrass Troubling for Wheat Growers”\*

“If you see ryegrass at harvest following an Axial XL application, it may be resistant. And you can scatter seed all over the field with the combine.”

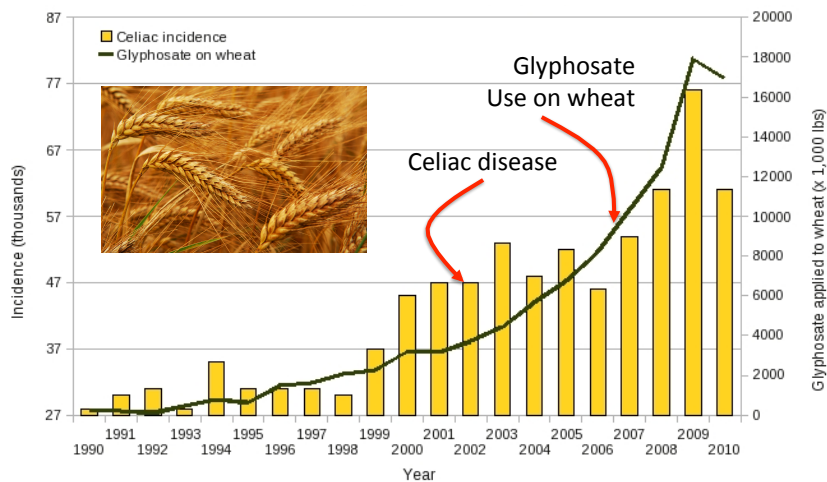
“A reduced-tillage approach, using a burndown herbicide ahead of planting in a stale seedbed, also holds promise for improved control.”

*“ We may be able to knock out 80% to 90% of the resistant ryegrass with glyphosate.’ ”*

-- Jim Swart, integrated pest management specialist

\*Ron Smith, Western Farm Press, Mar. 23, 2013

## Glyphosate and Celiac Disease\*



\*Samsel and Seneff, Interdiscip Toxicol. 2013;6(4): 159–184.

## MMR and Autism: The Evidence

### Benefits of Infectious Diseases

- A large Japanese study found that a history of measles and mumps in childhood is significantly protective against deadly heart attacks and strokes during adulthood\*
- Adults who had contracted chicken pox were 33% less likely to develop coronary heart disease
- Each additional contagious disease contracted during childhood, such as measles, mumps or rubella, increased the protective effect against acute coronary events by 14%\*\*
- Tumor remissions after measles infection are well documented in the medical literature

\*Y. Kubota et al., *Atherosclerosis* 2015;241(2):682-686.

\*\* E. Pesonen et al., *Atherosclerosis* 2007;192(2): 370-375.

## Some Adverse Reactions of MMR\*

“A shortened version of the vaccine damage associated with the MMR vaccine includes vomiting, diarrhea, anaphylaxis, ear pain, nerve deafness, diabetes, arthritis, myalgia, encephalitis, febrile seizures, pneumonia, and death.”

\*<https://vactruth.com/2016/06/23/japanese-government-bans-mmr-vaccine/>  
[http://www.merck.com/product/usa/pi\\_circulars/m/mmr\\_ii/mmr\\_ii\\_pi.pdf](http://www.merck.com/product/usa/pi_circulars/m/mmr_ii/mmr_ii_pi.pdf)  
[http://www.merck.com/product/usa/pi\\_circulars...pdf](http://www.merck.com/product/usa/pi_circulars...pdf)

Dr. Andrew Wakefield

### Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

A J Wakefield, S J Murch, A Anthony, J Linnell, D M Casson, M Malik, M Berelowitz, A P Dhillon, M A Thomson, M Davy, A Smit, S E Davies, J A Walker-Smith

#### Summary

**Background** We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.

**Methods** 12 children (mean age 6 years [range 3–10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal development followed by loss of acquired skills, including language, together with diarrhoea and abdominal pain. Children underwent gastroenterological, neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic-resonance imaging (MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Biochemical, haematological, and immunological profiles were examined.

**Findings** Onset of behavioural symptoms was associated with measles, mumps, and rubella vaccination in eight of the 12 children, with measles infection in one child, and otitis media in another. All 12 children had intestinal abnormalities (ranging from lymphoid nodular hyperplasia to atrophic colitis). Histology showed patchy chronic inflammation in 11 children and reactive ileal lymphoid hyperplasia in seven, but no granulomas. Behavioural disorders included

regressive autism (one), a possible encephalitis (two). There were no intestinal malabsorption and EEG tests were normal. Abnormal laboratory results were significantly raised urinary deoxyribonucleic acid compared with age-matched controls (p=0.03), low haemoglobin in four children, and low serum IgA in all children.

**Interpretation** We identify an associated gastrointestinal disease and developmental regression in a group of previously healthy children, which was generally associated in time with possible environmental triggers.

Lancet 1998; 351: 637–41  
 See commentary page

#### Introduction

We saw several children who, after a period of apparent normality, lost acquired skills, including communication. They all had gastrointestinal symptoms, including abdominal pain, diarrhoea, and vomiting and, in some cases, food intolerance. We describe the clinical findings, and gastrointestinal features of these children.

#### Patients and methods

12 children, consecutively referred to the department of paediatric gastroenterology with a history of a pervasive developmental disorder with loss of acquired skills and intestinal symptoms (abdominal pain, bloating and food intolerance), were investigated. All children were admitted to the ward for work, accompanied by their parents.

#### Clinical investigations

We took histories, including details of immunisations and exposure to infectious diseases, and assessed the children. In 11 cases the history was obtained by the senior clinician (JW-S). Neurological and psychiatric assessments were done by consultant paediatricians (PH, MB) with HMS-A criteria. Developmental records included a review of prospective developmental records from parents, health visitors, and general practitioners. Four children did not undergo psychiatric assessment in hospital; all had been assessed professionally elsewhere, so these assessments were used as the basis for their behavioural diagnosis.

After bowel preparation, ileocolonoscopy was performed by SFM or MAT under sedation with midazolam and pethidine. Paired frozen and formalin-fixed mucosal biopsy samples were taken from the terminal ileum, ascending, transverse, descending, and sigmoid colons, and from the rectum. The procedure was recorded by video or still images, and were compared with images of the previous seven consecutive paediatric colonoscopies (four normal colonoscopies and three on children with ulcerative colitis), in which the physician reported normal appearances in the terminal ileum. Barium follow-through radiography was possible in some cases.

Also under sedation, cerebral magnetic-resonance imaging (MRI), electroencephalography (EEG) including visual, brain stem auditory, and sensory evoked potentials (where compliance made these possible), and lumbar puncture were done.

#### Laboratory investigations

Thyroid function, serum long-chain fatty acids, and cerebrospinal-fluid lactate were measured to exclude known causes of childhood neurodegenerative disease. Urinary

Dr. Andrew Wakefield

**Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and  
pervasive developmental disorder in children**

A J Wakefield, S H Murch, A Anthony, J Linnell, D M Casson, M Malik, M Berelowitz, A P Dillon, M A Thomson,  
P Harvey, A V Savill, S E Davies, J A Walker-Smith

“We have identified a chronic enterocolitis in children that may be related to neuropsychiatric dysfunction. In most cases, onset of symptoms was after measles, mumps, and rubella immunisation. Further investigations are needed to examine this syndrome and its possible relation to this vaccine.”

were normal. Abnormal laboratory results were significantly raised urinary ethylmalonic acid compared with age-matched controls (n=103), low haemoglobin in four children, and low serum IgA in two children.

**Interpretation** We identify associated gastrointestinal disease and developmental regression in a group of previously normal children, which was generally associated in time with possible environmental triggers.

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## “The Impact of the Gut Microbiota on Humoral Immunity to Pathogens and Vaccination in Early Infancy”\*

- Gut microbiota are a dynamic community of intestinal bacteria, viruses, fungi, and archaea
  - They play an important role in activating the developing immune system and inducing protective antibody responses
- Germ-free mice have low antibody response to flu vaccine
- Bifidobacteria enhance oral vaccine efficacy
- Protective antibodies from mom’s milk interfere with vaccine response

\* QN Nguyen et al., PLOS Pathogens 12(12): e1005997



## **“Inhibition of Vaccine Responses by Maternal Antibodies”\***

“The only clinical solution to stimulating a protective B cell response in the presence of maternal antibodies is to immunize children repeatedly”

\*Stefan Niewiesk, *J Pediatr Inf* 2013; 7: 157-61.

## **Probiotics and the immunological response to infant vaccinations: a prospective, placebo controlled pilot study\***

- Oral probiotics given to infants during the period of immunization do not interfere with the immune response, and may improve sero-conversion rates.
- Probiotics may potentially reduce vaccine-related adverse effects in infants.

\* I. Youngster et al., *Arch Dis Child* 2011;**96**:345–349.

## “Probiotics and the immunological response to infant vaccinations: a prospective, placebo controlled pilot study”\*

**Table 2** Number of study participants failing to reach protective IgG antibody titres 3 months after vaccination for mumps, measles, rubella and varicella

	Placebo group	Probiotic group	p Value
Rubella IgG	3 (13%)	1 (4%)	0.226
Mumps IgG	2 (9%)	2 (8%)	0.392
Measles IgG	4 (18%)	2 (8%)	0.187
Varicella IgG	6 (27%)	3 (12%)	0.117
All measured IgG antibodies combined	15 (17%)	8 (8%)	0.052



**Table 3** Number of study participants reporting vaccine related adverse events up to 10 days following vaccination for mumps, measles, rubella and varicella as reported by the parents during phone interview

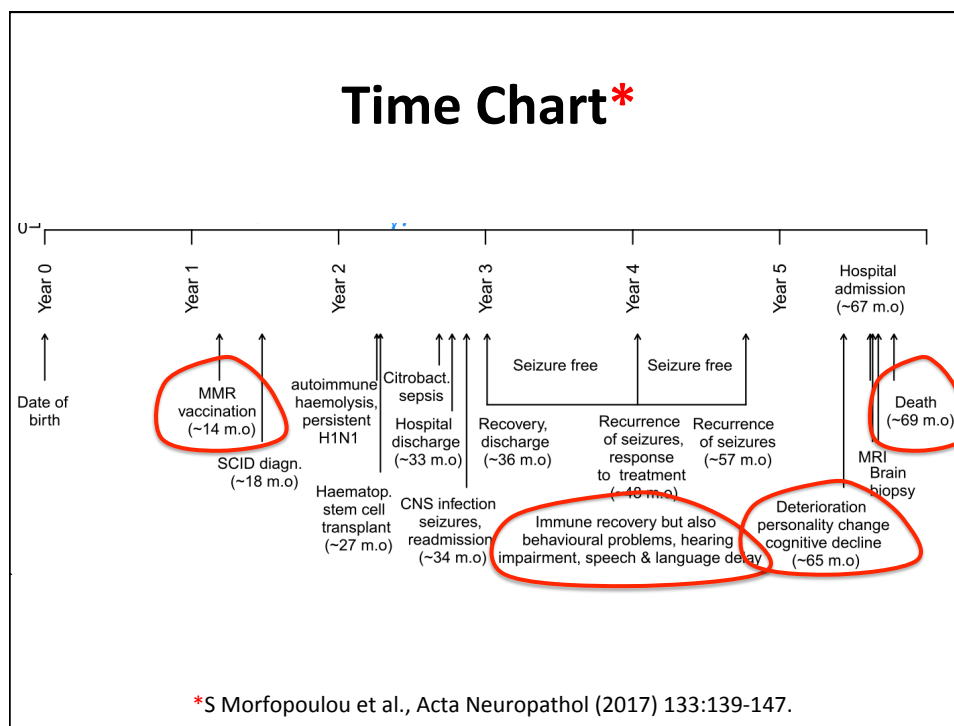
	Placebo group	Probiotic group	p Value
Fever	5 (22.7%)	1 (4.0%)	0.072
Restlessness	4 (18.1%)	2 (8.0%)	0.286
Diarrhoea	2 (9.0%)	1 (4.0%)	0.484
Any reported adverse effect	11 (16.6%)	4 (5.3%)	0.051

\*I Youngster et al.  
Arch Dis Child 2011  
96:345-349

## “Deep sequencing reveals persistence of cell-associated mumps vaccine virus in chronic encephalitis”\*

- Child diagnosed with severe immune deficiency 4 months after MMR vaccine
- 10 months post-vaccine: rash, diarrhoea, lethargy and seizures, with evidence of encephalitis on magnetic resonance imaging (MRI)
- Deep sequencing of brain biopsy revealed match to *mumps* strain of MMR vaccine
- Common pathogenic process with measles encephalitis

\*S Morfopoulou et al., Acta Neuropathol (2017) 133:139-147.  
Summary: <http://www.greenmedinfo.com/blog/vaccine-did-it-mutated-mmr-mumps-virus-brain-child-caused-his-death-british-resea>



## "Empirical Data Confirm Autism Symptoms Related to Aluminum and Acetaminophen Exposure"\*

- We found a significant link between MMR and autism ( $p = 0.007$ )
  - We were puzzled, because it doesn't contain aluminum and it doesn't contain mercury
  - We blamed it on the acetaminophen
- We were partly right!
  - Glyphosate suppresses the liver CYP enzymes that are needed to metabolize acetaminophen



\*S Seneff et al., Entropy 2012, 14, 2227-2253.

### **“Sulphation deficit in ‘low-functioning’ autistic children: a pilot study.”\***

- Specifically looked at ability to metabolize acetaminophen
- Found highly statistically significant result:
  - Autistic kids were unable to conjugate acetaminophen with *sulfate!* ( $p < .00002$ )
- Glyphosate disrupts multiple enzymes involved in sulfation pathway in E coli\*\*

\*AA Pirrone et al., Biol Psychiatry. 1999 Aug 1;46(3):420-4.

\*\*W. Lu et al., Mol. BioSyst., 2013, 9, 522-530.

### **"A Population-Based Study of Measles, Mumps, and Rubella Vaccination and Autism"\***

- Danish study, 2004 – claimed no relationship
- Flawed study:
  - The “not vaccinated” group are a biased group (not randomly selected)
  - They put all the autistic kids younger than 15 months into the “not vaccinated” group (should have thrown them out)
  - They divided up age groups such that the key date (15 months) was buried in the middle of the 0-3 age group.
- “not-vaccinated” group had substantially fewer autism cases in the 3-5 yr age group
  - 41% increased risk of autism in vaccinated group

\*KM Madsen et al., N Engl J Med 2002;347:1477-1482.

## Recapitulation

- Measles, mumps and rubella are childhood diseases that carry long-term benefit in protecting from heart disease and stroke
- MMR vaccine has an alarming list of adverse reactions
- Andrew Wakefield published a seminal paper in 1998 (later retracted) that linked MMR to autism in children with impaired gut microbiome
  - Gut microbiome plays important role in immune system maturation
- A case study showed indisputable link between mumps virus in MMR vaccine and an autoimmune encephalopathy leading to autism-like symptoms and premature death
- Acetaminophen administered following vaccination can be toxic when sulfation capacity is impaired
  - Glyphosate inhibits sulfation capacity
- A Danish study claiming MMR has no link to autism was flawed

**Glyphosate IN MMR?**

## Glyphosate in Vaccines?

- For MMR, flu vaccine, and rabies vaccine, live virus is grown on *gelatin* derived from ligaments of pigs
  - Pigs are fed GMO Roundup-Ready corn and soy feed
- Gelatin (derived from collagen) contains significant amounts of both glycine and glutamate
  - These two neurotransmitters excite the NMDA receptors in the brain
  - Glyphosate substitution by mistake for glycine is a possibility!
- Glyphosate stimulation of NMDA receptors could cause neuronal burnout

## The Purdue Vaccination Studies and Auto-antibodies\*

“The Purdue studies also found that vaccinated dogs were developing autoantibodies to their own collagen”



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

## Glyphosate Contamination in Vaccines (Parts Per Billion)\*

Merck	ZOSTAVAX	0.42	Shingles
<b>Merck</b>	<b>MMR-II</b>	<b>2.90</b>	<b>Measles, Mumps and Rubella</b>
Merck	VARIVAX	0.41	Varicella, Chicken Pox
MERCK	PNEUMOVAX	ND	Pneumococcal 18
MERCK	PROQUAD	0.43	Measles, Mumps, Rubella, Varicella
GSK	ENERGIX-B	0.33	Heptatitis B

\*<http://www.tonu.org/2016/08/31/vaccine-glyphosate-link/>

## Glyphosate Contamination in Vaccines (Parts Per Billion)\*

Merck ZOSTAVAX 0.42 Shingles

Interview: Anthony Samsel with Tony Mitra

<https://www.youtube.com/watch?v=k33iFXHlOnY>

MERCK	PNEUMOVAX	ND	Pneumococcal 18
MERCK	PROQUAD	0.43	Measles, Mumps, Rubella, Varicella
GSK	ENERGIX-B	0.33	Heptatitis B

\*<http://www.tonu.org/2016/08/31/vaccine-glyphosate-link/>

## Glyphosate and Glutamate\*

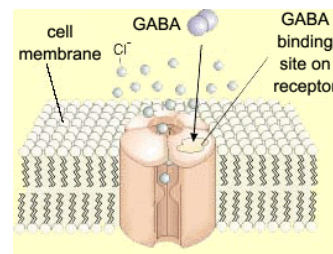
- Acute exposure activates NMDA receptors and voltage-dependent calcium channels
  - Oxidative stress and neural cell death
  - Increased glutamate release into the synaptic cleft → *excessive extracellular glutamate levels*
  - Decreased glutathione content
  - Increased peroxidation of lipids (fats)



\*<http://www.greenmedinfo.com/blog/roundup-weedkiller-brain-damaging-neurotoxin>

## Impaired GABA Receptor Activity and Autism

- Autism has been linked to a weakened response of the inhibitory GABA receptor to stimuli\*
- The GABA receptor has a conserved glycine at the entrance to the first membrane-spanning domain that is essential for its function\*\*



\*CD Robertson et al., Current Biology 2016;26: 80-85

\*\*BX Carlson et al., Mol Pharmacol. 2000;57(3):474-84



## Symptoms of Adverse Reactions to MMR before and after 2002\*

### More Common Before 2002

Reaction	Count Before 2002	Count After 2002	p-value
joint pain	126	65	0.036

### More Common After 2002

Reaction	Count Before 2002	Count After 2002	p-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	16	56	0.031
anaphylactic shock	16	54	0.034
facial swelling	45	95	0.040
swelling	860	1018	0.048

\*Data analyzed from the VAERS database

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eczema	4	36	0.026
ear infection	16	56	0.031
anaphylactic shock	16	54	0.034
Facial swelling	45	95	0.040
swelling	860	1018	0.048

These are all characteristic symptoms of allergies to MSG

\*Data analyzed from the VAERS database

## Measles Virus and Hemagglutinin\*

- The measles virus synthesizes the protein hemagglutinin
  - Antibodies to hemagglutinin are essential following MMR vaccination to induce immunity
- Hemagglutinin 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
  - Children with a rare genetic defect involving deletion of MBP can suffer from microcephaly\*\*
- Autoantibodies to MBP along with excessive levels of antibodies to measles hemagglutinin are linked to autism\*\*\*

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


\*\*AD Kline et al., Am J. Hum. Genet. 1993;52:895-906.

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

## Autism and Measles Hemagglutinin\*

- 125 autistic children and 92 control children
- 60% of the children with autism had high levels of antibodies to measles hemagglutinin specific to the MMR vaccine
  - 90% of these had autoantibodies to myelin basic protein (MBP)
- 0% of the control children had high antibody titers to either hemagglutinin or MBP
- There were no elevations in antibodies detected against any proteins in the mumps or rubella viruses

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



Journal of Developing Drugs  
ISSN: 2329-6631

Arumugham, J Develop Drugs 2015, 4:4  
<http://dx.doi.org/10.4172/2329-6631.1000137>

**Case Report** **Open Access**

**Evidence that Food Proteins in Vaccines Cause the Development of Food Allergies and Its Implications for Vaccine Policy**

**Vinu Arumugham\***  
San Jose, CA, USA

**Abstract**

Nobel Laureate Charles Richet demonstrated over a hundred years ago that injecting a protein into animals or humans causes immune system sensitization to that protein. Subsequent exposure to the protein can result in allergic reactions or anaphylaxis. This fact has since been demonstrated over and over again in humans and animal models.

## Large Proteins in Vaccines: Allergenic\*

“Vaccines clog our lymphatic system and lymph nodes with *large protein molecules* which have not been adequately broken down by our digestive processes, since *vaccines bypass digestion* with injections. This is why vaccines are linked to *allergies*, because they contain large proteins which as circulating immune complexes (CICs) or 'klinkers' cause our body to become allergic.”

\*Dave Mihalovic, ND, [http://whale.to/v/vaccines\\_cause\\_allergies.ht](http://whale.to/v/vaccines_cause_allergies.ht)

## Precedent: Glyphosate in Drugs?\*

- Trasylol (aprotinin) is a protein derived from *bovine lung* used to reduce bleeding during open heart surgery
- Rare acute reaction to Trasylol involves precipitous drop in blood pressure, acute kidney failure, and sudden death
  - Piglets injected with glyphosate salts had similar acute reaction with high mortality rate
- Cows fed GMO Roundup-Ready feed had highest residue levels of glyphosate in lungs

\*S Seneff et al., *Agricultural Sciences* 2015; 6:1472-1501.

## Recapitulation

- Glyphosate has been detected in multiple vaccines, with especially high concentrations in MMR
  - Many vaccines include gelatin and fetal bovine serum as ingredients, both of which are contaminated with glyphosate
- Glyphosate incorporated into a virus protein can lead 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 through molecular mimicry with measles hemagglutinin
- Multiple large proteins found in vaccines are allergenic
- Glyphosate is likely also present in certain biological drugs and may explain rare bizarre life-threatening adverse reactions

## Political Developments

Robert F. Kennedy may head a new commission to study vaccine safety





## **RFK, Jr. on Mercury & Vaccines**

“I’ve spent my life working on energy issues, environmental issues, and global warming, but I’ve taken a hiatus to do just this issue because I cannot stand by and watch these children being poisoned —an entire generation of kids that is being poisoned now by government policies and greed. We’re going to take them on and beat them.”

Robert F. Kennedy, Jr.  
Vaccines Revealed



## Robert F. Kennedy, Jr. announces the World Mercury Project's \$100,000 challenge

FOR IMMEDIATE RELEASE

CONTACT:

[Laura.Bono@WorldMercuryProject.org](mailto:Laura.Bono@WorldMercuryProject.org), 202-854-1310

Robert F. Kennedy, Jr. announces the World Mercury Project's \$100,000 challenge with goal of stopping use of highly toxic mercury in vaccines.

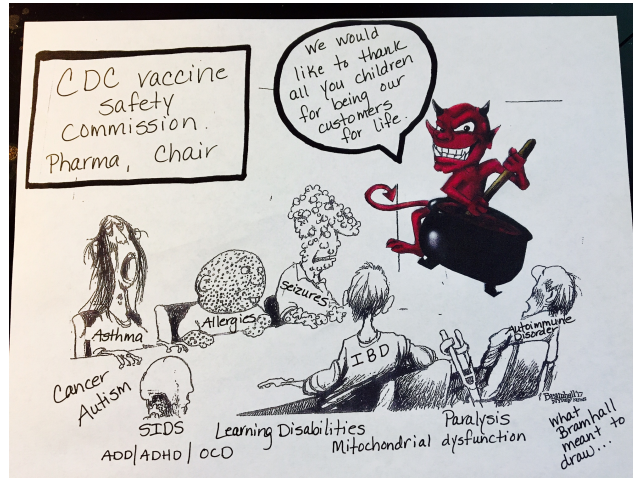
WASHINGTON, Feb. 15, 2017 – Robert F. Kennedy Jr., Chairman of the World Mercury Project (WMP), announced a \$100,000 challenge today aimed at putting an end to including mercury, a neurotoxin that is 100 times more poisonous than lead, in vaccines administered in the U.S and globally.

Thimerosal, a mercury-containing preservative, is still in 48 million U.S. flu vaccines each year, tetanus toxoid, meningococcal vaccines and, in massive doses, in the pediatric vaccines given to 100 million children across the developing world. A Centers for Disease Control (CDC) review published last month found that the ethylmercury in thimerosal is as profoundly neurotoxic as the heavily regulated methylmercury in fish.

## Bramhall Cartoon in NY Daily News

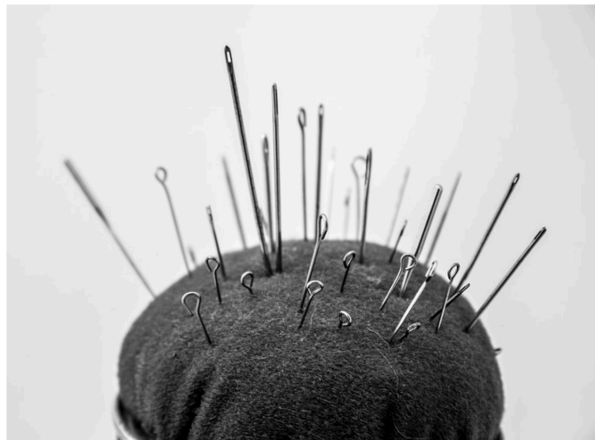


## Or should it be this?



Drawn by Michelle Guppy, used with permission

GreenMedInfo Research ▾ Articles ▾ Search 10,000+ Health Topics  
Posted on: Tuesday, January 17th 2017 at 10:45 am  
Written By: [Ginger Taylor, MS](#)



### Examining RFK Jr.'s claim that the CDC "Owns over 20 vaccine patents."

**Mr. Kennedy is in very safe territory by reporting that the CDC has over 20 patents that create vast, undisclosed conflicts of interests in vaccine safety.**

\*Ginger Taylor, MS, GreenMedInfo, Jan 17, 2017



## Some Examples of CDC Vaccine Patents\*

- CDC patents applicable to vaccines for Flu, Rotavirus, Hepatitis A, HIV, Anthrax, Rabies, Dengue fever, West Nile virus, Group A Strep, Pneumococcal disease, Meningococcal disease, RSV, Gastroenteritis, Japanese encephalitis, SARS, Rift Valley Fever, and chlamydomphila pneumoniae.
- Nucleic acid vaccines for prevention of flavivirus infection, which has applications in vaccines for Zika, West Nile virus, Dengue fever, tick-borne encephalitis virus, yellow fever, Palm Creek virus, and Parramatta River virus.
- Several patents for administering various “shots” via aerosol delivery systems for vaccines.

\*[greenmedinfo.com/blog/examining-rfk-jrs-claim-cdc-owns-over-20-vaccine-patents](http://greenmedinfo.com/blog/examining-rfk-jrs-claim-cdc-owns-over-20-vaccine-patents)

## Jeffrey Dach, MD, on Autism and Vaccines\*

- Autism is a Public Health Issue
- The Science is NOT Settled
- Vaccine Makers are Exempt from Liability
- Vaccines Should Be Regulated Like Any Other Drug
- Some Vaccines Work, Others Are not Worth the Risks



\*[jeffreydachmd.com/2017/01/donald-trump-autism-vaccination-and-robert-kennedy-jr/](http://jeffreydachmd.com/2017/01/donald-trump-autism-vaccination-and-robert-kennedy-jr/)

## Dr. Jeffrey Dach on Autism and Vaccines\*

“Authoritarian rulers typically enforce discipline by making an example of dissenters, who are accused of being ‘enemies of the state’ and summarily executed. Such an example was made of Dr. Wakefield whose career was destroyed after his research came up with the ‘wrong findings.’ Perhaps this weighs heavily on the minds of academics thinking of studying autism.”

\*[jeffreydachmd.com/2017/01/donald-trump-autism-vaccination-and-robert-kennedy-jr/](http://jeffreydachmd.com/2017/01/donald-trump-autism-vaccination-and-robert-kennedy-jr/)

## VaxXed Movie Story Line

- In 2013, William Thompson, PhD called Dr. Brian Hooker, autism parent, because he was wracked with guilt about his participation in a falsified CDC study on MMR and autism
- In African-American boys, autism was *3.4 times* as common in children who received the MMR before 3 years than in children who received it after 3 years.
- Among children who had been developing normally up to 1 year old, those who regressed into autism were more than *7 times* as likely to have had MMR before the age of 3.
- *All the children in the study had been given the MMR vaccine*

## Dr. Thompson: Whistle Blower

- Metropolitan Atlanta Developmental Disabilities Surveillance Program (MADDPSP) Study - conducted in US in response to Wakefield's Lancet paper\*
  - Allegedly claimed no link between MMR and autism
- The race effect problem (particularly black boys)
  - statistical significance was huge
- All authors met in 2002 and decided not to report any race effects
- A big garbage can was brought into the room, and documents containing the evidence were discarded (Thompson kept a copy)
- Added requirement for in-state birth certificate to get rid of over half the data on the black boys



\*AJ Wakefield et al., Lancet. 1998 Feb 28;351(9103):637-41

## Brian Hooker's Article

[Transl Neurodegener.](#) 2014; 3: 16. PMID: PMC4128611  
Published online 2014 Aug 8. doi: [10.1186/2047-9158-3-16](#)

**This article has been retracted.**

Retraction in: [Transl Neurodegener.](#) 2014; 3: 22. See also: [PMC Retraction Policy](#)

### Measles-mumps-rubella vaccination timing and autism among young african american boys: a reanalysis of CDC data

[Brian S Hooker](#)<sup>1†</sup>

[Author information](#) ► [Article notes](#) ► [Copyright and License information](#) ►

An expression of concern has been published for this article. See [Transl Neurodegener.](#) 2014; 3: 18.

This article has been retracted. See [Transl Neurodegener.](#) 2014; 3: 22.

This article has been cited by other articles in PMC.

#### Abstract

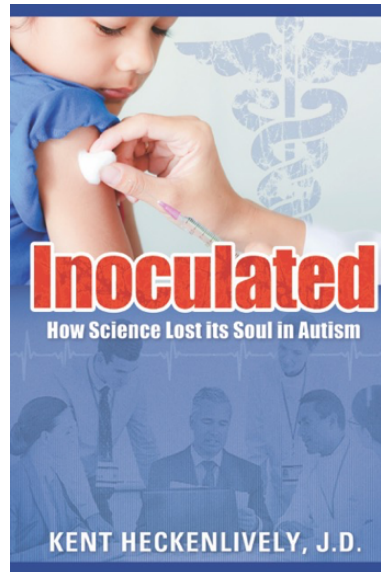
Go to: ☺

#### Background

A significant number of children diagnosed with autism spectrum disorder suffer a loss of previously-acquired skills, suggesting neurodegeneration or a type of progressive encephalopathy with an etiological basis occurring after birth. The purpose of this study is to investigate the effect of the age at which children got their first Measles-Mumps-Rubella (MMR) vaccine on autism incidence. This is a reanalysis of the data set, obtained from the U.S. Centers for Disease Control and Protection (CDC), used for the Destefano et al. 2004 publication on the timing of the first MMR vaccine and autism diagnoses.

#### Methods

The author embarked on the present study to evaluate whether a relationship exists between child age when the first MMR vaccine was administered among cases diagnosed with autism and controls born between 1986 through 1993 among school children in metropolitan Atlanta. The Pearson's chi-squared method was used to assess relative risks of receiving an autism diagnosis within the total cohort as well as among different race and gender categories.



## Recapitulation

- The CDC found a statistically significant link between MMR and autism in black males, but chose to bury that information
  - This cover-up has come to light through revelations by Dr. Thompson of the CDC
- The CDC owns many patents related to vaccines that constitute a conflict of interest
- Vaccines are not treated with as much scrutiny as drugs, in large part because the industry is protected from lawsuits
- Dr. Wakefield's career was destroyed because he discovered a plausible link between MMR and autism
  - A new verb has emerged in the vernacular: "to get Wakefielded"
  - Research advances on autism have been set back severely

## Gardasil

### **“Current Safety Concerns with Human Papillomavirus Vaccine: A Cluster Analysis of Reports in VigiBase”\***

- Complex conditions with common symptoms:
  - Postural orthostatic tachycardia syndrome (POTS)
  - Chronic fatigue syndrome
  - Complex regional pain syndrome (CRPS)
- Symptoms related to these conditions are showing up in clusters in adverse event reports for Gardasil, worldwide
  - Headache, dizziness, fatigue and syncope
  - Abdominal pain, muscular weakness, palpitations

\*RE Chandler et al., Drug Saf (2017) 40:81–90

Manufacture of the HPV (Gardasil) vaccine uses genetically modified yeast (*sacharomyces cervicae*) to synthesize the virus toxin

## Gardasil!

### What is a recombinant vaccine?

“Recombinant vaccines are made by genetic engineering, the process and method of manipulating the genetic material of an organism. In this case, the genes that code for a specific protein from each of the four virus types of HPV are expressed in *yeast* to create large quantities of the protein. The protein that is produced is purified and then used to make the vaccine.”\*

\*[fda.gov/BiologicsBloodVaccines/Vaccines/QuestionsaboutVaccines/ucm096052.htm](http://fda.gov/BiologicsBloodVaccines/Vaccines/QuestionsaboutVaccines/ucm096052.htm)

## Yeast cells produce the antigen in Gardasil\*

“Gardasil contains *virus-like particles* (VLPs) of the recombinant major capsid (L1) protein of HPV types 6, 11, 16, and 18 as active substance. The recombinant proteins forming the VLPs are produced by separate fermentation in recombinant *Saccharomyces cerevisiae*. VLPs of each type are adsorbed on amorphous *aluminium* hydroxyphosphate sulfate adjuvant ...”

\*[ema.europa.eu/docs/en\\_GB/document\\_library/.../WC500021140.pdf](http://ema.europa.eu/docs/en_GB/document_library/.../WC500021140.pdf)

## Yeast type in Gardasil manufacture\*

“Following sub-cloning of either the whole HPV genomes or parts thereof into standard cloning vectors, polymerase chain reaction (PCR) was used to subclone the L1 genes into the yeast expression vector pGAL110, which contains the divergent yeast *GAL1-GAL10* promoter...”

\*[ema.europa.eu/docs/en\\_GB/document\\_library/.../WC500021140.pdf](http://ema.europa.eu/docs/en_GB/document_library/.../WC500021140.pdf)

## Yeast cells use sugar as a fuel source\*

“Yeast cells can grow on a variety of carbon sources. The most commonly used carbon/energy source is D-*glucose* (dextrose). Other fermentable carbon sources also can be used such as galactose, maltose, fructose, and raffinose. They are added to a final concentration of 2% to either rich or minimal medium **(2,3)**. *Glucose-free galactose (<0.01% glucose) is particularly useful to induce transcription of genes fused to Gal1/Gal10 promoters.*”

Lawrence W. Bergma, Growth and Maintenance of Yeast , Chapter 2 in PN MacDonald, Ed., Methods in Molecular Biology Vol. 177. Humana Press, Tolowa, NJ

Galactose can be derived from lactose in milk or from sugar beets – both are expected to contain glyphosate

Glucose comes from sugar cane or sugar beets – both are heavily exposed to glyphosate

*particularly useful to induce transcription of genes fused to Gal1/Gal10 promoters.*

\*[ema.europa.eu/docs/en\\_GB/document\\_library/.../WC500021140.pdf](http://ema.europa.eu/docs/en_GB/document_library/.../WC500021140.pdf)



## **A Hypothesis**

- The yeast that are cultured to produce the antigenic proteins in Gardasil incorporate glyphosate from their growth medium into the antigenic proteins
- This results in severe reactions linked to Gardasil

## **Recapitulation**

- Gardasil vaccine is associated with many serious adverse reactions
  - Headache, dizziness, fatigue and syncope
  - Abdominal pain, muscular weakness, palpitations
- Gardasil is a “recombinant” vaccine – yeast cells are commissioned to produce HPV proteins from multiple strains
- The yeast are fed galactose and glucose, both of which can be expected to be contaminated with glyphosate
- If glyphosate gets into the HPV proteins, it can lead to autoimmune disease

## Other Vaccines



Source: J.B. Handley, with permission

## VACCINES DOSES for U.S. CHILDREN

1962

1983 1986

2016

TOTAL DOSES: 6

TOTAL DOSES: 24

TOTAL DOSES: 72

**Polio**  
**Smallpox**  
**DTP**

**DTP** (2 months)  
**OPV** (2 months)  
**DTP** (4 months)  
**OPV** (4 months)  
**DTP** (6 months)  
**MMR** (15 months)  
**DTP** (18 months)  
**OPV** (18 months)  
**DTP** (4 years)  
**OPV** (4 years)  
**Td** (15 years)

**Influenza** (pregnancy)  
**DTP** (pregnancy)  
**Hep B** (birth)  
**Hep B** (2 months)  
**Rotavirus** (2 months)  
**DTaP** (2 months)  
**HIB** (2 months)  
**PCV** (2 months)  
**IPV** (2 months)  
**Rotavirus** (4 months)  
**DTaP** (4 months)  
**HIB** (4 months)  
**PCV** (4 months)  
**IPV** (4 months)  
**Hep B** (6 months)  
**Rotavirus** (6 months)  
**DTaP** (6 months)  
**HIB** (6 months)  
**PCV** (6 months)  
**IPV** (6 months)  
**Influenza** (6 months)  
**Influenza** (7 months)  
**HIB** (12 months)  
**PCV** (12 months)  
**MMR** (12 months)  
**Varicella** (12 months)  
**Hep A** (12 months)  
**DTaP** (18 months)

**Influenza** (18 months)  
**Hep A** (18 months)  
**Influenza** (30 months)  
**Influenza** (42 months)  
**DTaP** (4 years)  
**IPV** (4 years)  
**MMR** (4 years)  
**Varicella** (4 years)  
**Influenza** (5 years)  
**Influenza** (6 years)  
**Influenza** (7 years)  
**Influenza** (8 years)  
**Influenza** (8 years)  
**HPV** (9 years)  
**Influenza** (10 years)  
**HPV** (10 years)  
**Influenza** (11 years)  
**HPV** (11 years)  
**DTaP** (12 years)  
**Influenza** (12 years)  
**Meningococcal** (12 years)  
**Influenza** (13 years)  
**Influenza** (14 years)  
**Influenza** (15 years)  
**Influenza** (16 years)  
**Meningococcal** (16 years)  
**Influenza** (17 years)  
**Influenza** (18 years)

*\*In 1986, Pharmaceutical manufacturers producing vaccines were freed from ALL liability resulting from vaccine injury or death by the Childhood Vaccine Injury Act.*

*With this, vaccines became HIGHLY profitable. There are 271 vaccines in development and mandatory vaccine laws for children — and ADULTS — being pushed in most states.*

## “New Quality-Control Investigations on Vaccines: Micro- and Nanocontamination”\*

- “Among the systemic effects, fever, headache, irritability, epileptic seizures, temporary speech loss, lower limbs dysaesthesia and paresis, hot flashes, sleep disorders, hypersensitivity reactions, muscle pain, recurrent syncope, constant hunger, significant gait impairment, incapacity to maintain orthostatic posture are report.”
- "No satisfactory explanation or, in many cases, no explanation at all, has been given..."

\*AM Gatti and S Montanari. International Journal of Vaccines and Vaccination 2017; 4(1): 00072.

## Some Detected Contaminants\*

- Lead, tungsten, zirconium, iron, nickel, antimony, stainless steel, and chromium.
- “The quantity of foreign bodies detected and, in some cases, their unusual chemical compositions baffled us. The inorganic particles identified are neither biocompatible nor biodegradable”
  - Biopersistent
  - Effects can show up after a significant time delay
- After being injected, those microparticles, nanoparticles and aggregates can stay around the injection site forming swellings and granulomas
- Can also be carried by the blood circulation, “escaping any attempt to guess what will be their final destination”

\*AM Gatti and S Montanari. International Journal of Vaccines and Vaccination 2017; 4(1): 00072.

## Temporal Association between Vaccines and Neurological Disease Onset\*

- Case-control study comparing diagnoses of anorexia nervosa (AN), anxiety, obsessive compulsive disorder (OCD) and tic disorders with diagnoses of broken bones and open wounds
  - Children aged from 6 to 15 diagnosed between 2002 and 2007
- Cases were more likely to have received a recent influenza vaccine compared to controls
- Hazard ratios associated with receipt of any vaccine were highest for anorexia (1.8 for 30-month preceding period) followed by OCD
- Other vaccine associations included Hepatitis A with OCD and AN, hepatitis B with AN, and meningitis with AN and chronic tic disorder

\*DL Leslie et al., Frontiers in Psychiatry 2017;8:3.

## “Pink Disease” Descendants have High Risk of Autism\*

- 522 participants previously diagnosed with Pink Disease (reaction to mercury exposure in teething powders)
- Grandchildren of Pink Disease survivors had autism rate of 1 in 25, compared to 1 in 160 in the general population



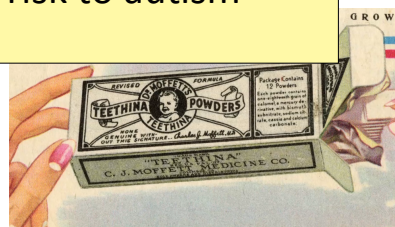
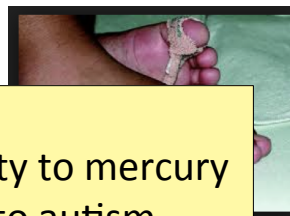
\*K Shandley et al., Journal of Toxicology and Environmental Health, Part A. 2011;74:1185-1194.

## “Pink Disease” Descendants have High Risk of Autism\*

- 522 participants previously

Suggests genetic susceptibility to mercury results in increased risk to autism

- Grandchildren of PINK Disease survivors had autism rate of 1 in 25, compared to 1 in 160 in the general population



\*K Shandley et al., Journal of Toxicology and Environmental Health, Part A. 2011;74:1185-1194.

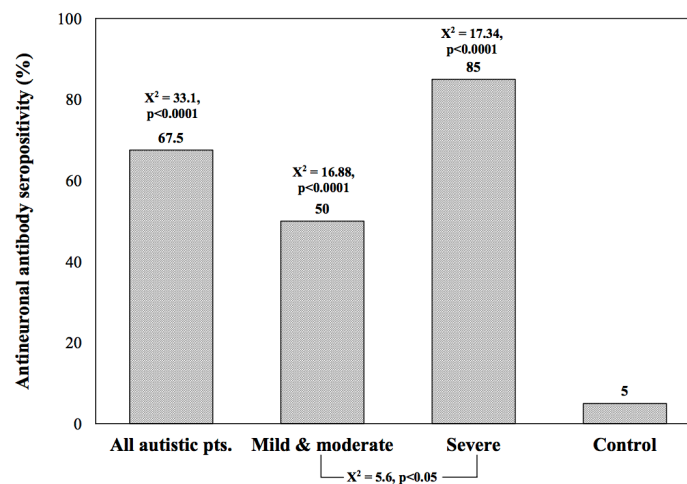
## Mercury & Autism\*

- Children with autism had significantly higher mercury levels than their non-autistic siblings and the other healthy children in the study
- Most severely disabled children had highest levels of mercury
- An important source was mercury in the fillings of the mom's teeth



\*GA Mostafa and TMK Refai. Egypt J Pediatr Allergy Immunol 2007;5(1):21-30

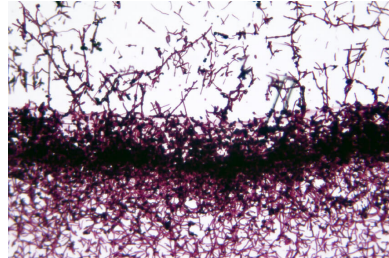
## Anti-neuronal Antibodies\*



\*GA Mostafa and TMK Refai. Egypt J Pediatr Allergy Immunol 2007;5(1):21-30

## Candida and Mercury\*

- Candida is the most common yeast infection worldwide
- Candida are relatively resistant to mercury toxicity
- Candida convert mercury into the more toxic organic form, methyl mercury
- Candida overgrowth can be a result of overuse of antibiotics (which preferentially kill bacteria compared to yeast)
- Glyphosate is a patented antimicrobial agent



\*S. Yannai et al., Applied and Environmental Microbiology 199157(1):245-247.

## “Desulfovibrio species are potentially important in regressive autism”\*

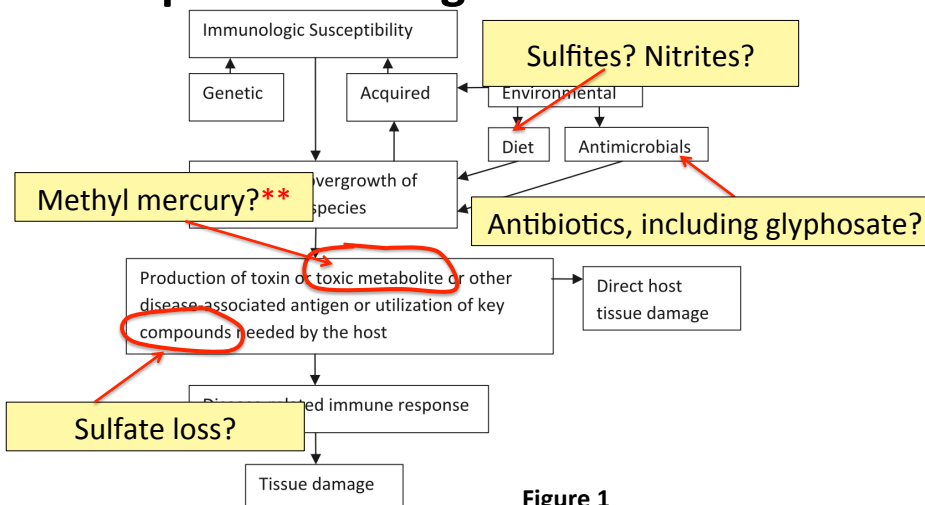


Figure 1

\*SM Finegold, Medical Hypotheses 2011; 77: 270-274.

\*\* Y-R Liu et al., Environ. Sci. Technol. 2016, 50, 13335–13341

## “A Positive Association found between Autism Prevalence and Childhood Vaccination uptake across the U.S. Population”\*

- Analyzed 50 states of United States
- Regression analysis controlling for family income and ethnicity
- Percentage of children in each state who received the 4:3:1:3:3 series of vaccines before age 2.
- Autism/language delay evaluated at age 8 (6 years later)
- 1% increase in vaccination → 680 more children with autism or language delay

\*G DeLong, Journal of Toxicology and Environmental Health, Part A 2011;74(14):903-916.

## Autism Rates vs Vaccination Rates\*

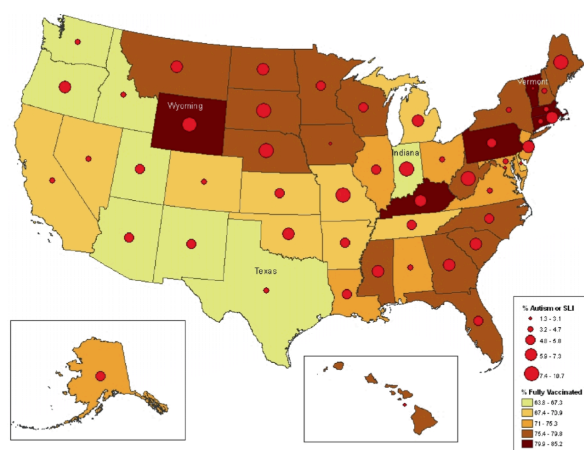


FIGURE 1. Vaccination (1999) and Autism or Speech Disorder (2005) by U.S. State (color figure available online).

\*G DeLong, Journal of Toxicology and Environmental Health, Part A 2011;74(14):903-916.



## **Mandatory Flu Vaccine Not Supported\***

“We conclude that policies of enforced influenza vaccination of HCWs [health care workers] to reduce patient risk *lack a sound empirical basis*. In that context, an intuitive sense that there may be some evidence in support of some patient benefit is *insufficient scientific basis to ethically override individual HCW rights*.”

\*G. De Serres et al. PLoS ONE 12(1): e0163586

## **“Vaccination history and risk of non-Hodgkin lymphoma: a population-based, case-control study”\***

- Those who got the flu vaccine experienced nearly double the risk for two different subtypes of non-Hodgkin lymphoma
- Intriguingly, this cancer is also linked to glyphosate (a class action lawsuit is underway)
- Anthony Samsel found glyphosate contamination in the flu vaccine, which contains gelatin

\*HA Lankes et al., Cancer Causes Control. 2009; 20(5): 5170-523.

## Department of Human Health and Services Statistics on Flu Vaccine\*

- Yearly sales exceed 134 million doses
  - All other vaccines combined total less than 200 million doses.
- Just since 2006, over 1 billion doses of the flu shot have been distributed, accounting for 60% of all vaccines.
- Nearly 60% of all children in the US get the flu shot yearly, and over 43% of all adults, including the elderly.
- Flu vaccine is the most common adverse event report category in VAERS

\*naturalnews.com/

2017-01-18-the-flu-shot-is-the-most-defective-vaccine-ever-made-heres-proof.html

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Multidose flu vaccine contains mercury

\*naturalnews.com/

2017-01-18-the-flu-shot-is-the-most-defective-vaccine-ever-made-heres-proof.html

## VAERS Analysis of Aluminum\*

- Several signs and symptoms that are *significantly more prevalent* in vaccine reports *after 2000*, including cellulitis, seizures, depression, fatigue, pain and death, are also significantly associated with aluminum-containing vaccines
- More aluminum after 2000, but also more glyphosate! Glyphosate enhances aluminum uptake into the brain\*\*

\*S Seneff et al., *Entropy* **2012**, 14(11), 2227-2253

\*\*S Seneff et al., *Agricultural Sciences*, **2015**, 6, 42-70

## Brand New Study on Aluminum Exposure in Rats\*

- Neurobehavioral changes & anxiety-like behavior observed with exposure to 200 $\mu$ g Al/kg but not at 400 and 800 $\mu$ g Al/kg
- Cerebral Al levels increased in animals exposed to the lowest dose (200 $\mu$ g)
- Lower dose contains small agglomerates in bacteria-size range which favors capture
- Al carried by macrophages from injected muscle to lymphoid organs to brain

\*G Crépeaux et al., *Toxicology* 2017 Jan 15;375:48-57.

## Recapitulation

- Kids today get many more vaccines than their parents did
- Aluminum and mercury are common ingredients in vaccines that are known neurotoxins
  - Glyphosate likely makes both of these more toxic
- Pink disease is linked to mercury poisoning and those who suffered from it have a high risk of autism in their descendants
- Yeast and Desulfovibrio, both of which are linked to autism, convert mercury to a more toxic form
- Vaccines have recently been found to be contaminated with several other toxic metals besides mercury and aluminum
- Flu vaccine is vastly over-administered and it is linked to non-Hodgkin lymphoma
  - Is this due to glyphosate contamination?

## How to Safeguard Yourself and Your Family

## Extracts from Common Plants Can Treat Glyphosate Poisoning\*

- Roundup is toxic to hepatic and embryonic cells at doses far below those used in agriculture and at residue levels present in some GM food.
- Extracts from common plants such as dandelions, barberry, and burdock can protect from damage, especially if administered prior to exposure.



\*C Gasnier et al. Journal of Occupational Medicine and Toxicology 2011, 6:3

## Treating Glyphosate Poisoning in Animals (e.g., cows) \*

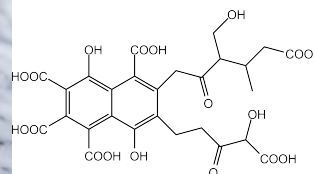


Sauerkraut Juice

Activated charcoal, bentonite clay, humic and fulvic acids, and sauerkraut juice have been shown to be effective in reducing urinary levels of glyphosate and improving animal health



Bentonite Clay



Fulvic Acid



Activated Charcoal

\*H Gerlach et al., J Environ Anal Toxicol 2014, 5:2

## Some Important Nutrients

- Curcumin
- Garlic
- Vitamin C
- Probiotics
- Methyl tetrahydrofolate
- Cobalamin
- Glutathione
- Taurine
- Epsom salt baths



Go Organic!



- Sauerkraut and apple cider vinegar contain acinetobacter, one of the very few microbes that can metabolize glyphosate
- Yogurt and kimchi probably do too



## Kefir: Natural Probiotics\*

- Kefir is a fermented milk product originating in the Caucasus mountains centuries ago
- Can be made from milk from cows, sheep and goats
- Slightly sour and carbonated
- One of the most potent probiotic foods available



\*<https://chriskresser.com/kefir-the-not-quite-paleo-superfood/>

## Summary

- MMR vaccine in collaboration with glyphosate is a major player in the autism epidemic
- Glyphosate's likely ability to get into proteins by mistake in place of glycine can explain the strong correlations we are seeing between glyphosate usage and a long list of debilitating autoimmune diseases
  - Celiac disease, rheumatoid arthritis, Alzheimer's, Parkinson's, diabetes, ALS, non Hodgkin lymphoma, etc.
- When one rationally considers the risk/benefit ratio of vaccines, it becomes clear that they are failing
  - Producing safe and effective vaccines is a daunting task
- Switching to an organic high-sulfur diet and probiotic foods are simple steps to improve your family's health