

## **What our enemy comes at us with:**

“...for our struggle is not against flesh and blood , then but against the rulers in, against the authorities, against the powers of the dark world and against the spiritual forces of evil in the heavenly realms.”[Ephesians 6:12 ]

We are told our enemy comes to rob, kill, and destroy but all three seem to be in a very deceptive manner. We are to “resist and he will flee”. [James 4:7]

So, if he is clever, we will be unaware so we can't resist. What are the attacks we should be aware of so we can resist?

- **Polylogism**- Disordered thinking or the destruction of the traditional rules of logic and truth in all its branches. [see:“Polylogism”, J.A. Tucker]
- **Attack the emotional centers of the brain**. Push mental destruction with dopamine-sensuality to the fear centers of the brain and suppress the serotonin-happiness centers.[see: R. Lustig and Dopamine and Serotonin]
- **Poison** the powerful room temperature supercomputers of the microtubules of our brain with Glyphosate. [see: Seneff on Glyphosate]
- **Feed us fructose** to damage and destroy our metabolism, energy level, fertility, and sense of well being. [Lustig,R. ]
- Drive most of us collectively into “**Mass Formation Psychoses**”[see:Desmet]
- **Destroy Hope** of achieving a “rational and unified answer to knowledge and life through low level of Hegelian thought taught in the university and schools, reasoning below the “line of despair” [Francis Schaeffer] Mystical faith is not open to discussion or verification (empty dogma). While Christian faith is open and welcome to discussion and verification.
- **Conflict**, infinite war between groups so as to gain control over levers of power.[see: J.A. Tucker]
- Finally, the **global totalitarianism** of the Soviet, Nazi, and Deep State that threatens freedom and markets “virtual slavery and tries to impose a totally false reality on the world with darkness and demonic misdirection using raw evil.[see: J.A. Tucker]

# Polylogism is the Root the Root Problem, Jeffery A.

**Tucker** (from: Epoch Times May 8, 2024 "Viewpoints")

*Commentary*

In 1957, famed Austrian economist **Ludwig von Mises** sent out a warning from his masterful treatise on philosophy called "[Theory and History](#)." He warned of the coming to the United States of a pernicious doctrine so dangerous that it could wipe out the very basis of civilization.

Mises knew this from his personal experience in Europe. He saw it germinate in the academy, infect movements and regimes, and ruin whole societies through its final realization in Soviet and Nazi totalitarianism. The doctrine wrecked his beloved Vienna and drove him into political exile, first to Geneva, Switzerland, and then to New York. It colored the map of Europe black. It had previously ruined Russia and threatened many other regions of the world.

For him, intellectual life was not a parlor game. He knew how bad ideas originating in the academy could result in mass suffering and death. That's why from early in his career, he dedicated himself to calling out bad ideas, especially those that fundamentally threatened liberty itself.

He called the pernicious **doctrine polylogism. The idea is this. There is not one logic, one truth, one path of thinking that is subject to verification.** Rather, every group and every interest operates according to its own logic. No one is in a position to say: This does not follow from that. There are multiple and infinite ways to think and emote, and no one is in a position to say which is correct or incorrect, valid or invalid. As a result, there are no real rules for thinking at all and no right and wrong paths of finding what is or is not true. It's a short step to deny reality altogether, including even biology. Everything becomes a matter of the unconstrained imagination.

4/29/2024

Mises put the theory as follows:

"Polylogism denies the uniformity of the logical structure of the human mind. Every social class, every nation, race, or period of history is equipped with a logic that differs from the logic of other classes, nations, races, or ages. Hence bourgeois economics

differs from proletarian economics, German physics from the physics of other nations, Aryan mathematics from Semitic mathematics. There is no need to examine here the essentials of the various brands of polylogism. For polylogism never went beyond the simple declaration that a diversity of the mind's logical structure exists. It never pointed out in what these differences consist, for instance how the logic of the proletarians differs from that of the bourgeois. All the champions of polylogism did was to reject definite statements by referring to unspecified peculiarities of their author's logic."

Consider the implications. There can be no human rights under these conditions because what is right for one group isn't necessarily right for another. There can be no law or constitution because they presume a uniform structure of human aspiration. There can be no language with true meaning. There can be no truly informed conversation because words are merely sounds and not actually meaningful. Everything is reduced to communication theater. There are no valid arguments; or, rather, all arguments are valid, even if they are just feelings and intuitions.

If polylogism is correct, there is no reason for a logic textbook or even the discovery or discussion of fallacy. There are no fallacies, only perspectives. It is pointless to build systems of thought. All concepts of math and geometry are reduced to arbitrary claims that may or may not be correct. In this world, two plus two really can equal five, and no one is in a position to say otherwise.

If there is a conflict over what is true, it is entirely because of the inherent conflict that exists between different logical systems as they pertain to groups. Karl Marx took this idea and applied it to the workers versus capital owners, which is why his disciplines were never even slightly interested in economics as such. Supply and demand were dismissed as bourgeois concepts, utterly unsuitable for a regime that was emancipating the proletariat.

This became a major problem for Soviet Premier Nikita Khrushchev when he was trying to boost the performance of the Soviet economy. He looked around for someone who could provide him with some plan and metric of success that did not take recourse to basic economic logic, because generations of students and leaders were taught to disregard classical economics as nothing but a capitalist construct.

The essential thesis of Christopher Rufo's bestseller "[America's Cultural Revolution](#)" is that this Marxian theory of conflict came to be reapplied to a series of other settings involving race, gender, religion, nationality, language, and everything else, thus creating a crazy and cacophonous world of infinite war between groups, the object of which is to gain control over the levers of power. His theory is that this happened to the United States, and it is destroying us.

In Mises's view, the problem is even deeper and traces to polylogism itself, the complete denial of the validity of logic itself. This began not with Marx, but with G.F. Hegel a half-century earlier. Hegel posited the existence of sweeping forces of historical determinism that operated outside human will and the constraints of logic and old-fashioned notions of truth. The Hegelians eventually branched off into left-wing strains (the Marxians) and right-wing strains that sought to unite church, state, and industry into a single divine force (the fascists and Nazis).

Crucial to the success of totalitarianism, Mises wrote, was the destruction of traditional rules of logic and all of its branches, including mathematics, science, economics, and liberal politics. In a world without the presumption of "the uniformity of the logical structure of the human mind," anything becomes possible. Nothing is wrong. Nothing is true, or, as is fashionable to say, with disdain, nothing is "cap T true." All truth claims are merely beliefs and valid or invalid depending on political whim.

Why do people believe this? Most people have never been given the choice to think otherwise. That is because logic is no longer taught in schools or universities.

I mentioned this to a friend, who said: "That's not correct. My son is a philosophy major at a top school, and he just took a course on logic."

That's precisely the point. The only people who encounter the discipline are philosophy majors. It was not always so. Classical education was based on what was called the Trivium: grammar, logic, and rhetoric. This was the foundation of knowledge to teach necessary skills in language, reasoning, and communication. After this, students were positioned to study math, geometry, music, and science generally.

What is today's Trivium? Complaining, self-obsessing, and grifting.

I can recall falling in love with learning in college and camping out in the library for two years, reading everything I could get my hands on: psychology, history, economics,

political science, philosophy, and theology. It was all wonderful, but I had no idea that I was lacking in a crucial foundation in logic. Preparing for law school entrance examinations, I took a course to help me through the mind-blowing logical games section.

I tell you what, you could have picked me off the floor once I found out that there were actual rules for thinking, reasoning, and communicating. It utterly blew my mind, and I can recall well the sudden sense of bitterness I felt that no one had ever told me this. I should have been taught this in middle school, at least. Then I realized that no one else knew this either.

In fact, as I looked through the modern history of learning, I discovered that logic itself had been deprecated in all education sometime in the 1960s. It came to be relegated to an arcane branch of philosophy only to be studied by specialists. This is truly preposterous. Was this by neglect or by intention? I do not know.

Of course, it was in the same period that Herbert Marcuse mapped out the real agenda in his famed 1969 essay called "[Repressive Tolerance](#)," in which he opined that the whole concept of freedom is itself a bourgeois construct that must be overthrown through massive state oppression of traditional elites to put new ones in charge.

It was Mises's view that without a concession to the validity of universal logic, the state will always take charge. That was always the agenda of Hegel, whose follower Ferdinand Lassalle wrote that "The State is God." The long march through the institutions was designed to achieve this. It worked more than we like to admit. Polylogism sounds like a fancy philosophy, but it is nothing but the handmaiden of tyrants.

**Deceived by feelings** Dr. Burke Parsons *CORAM DEO* before the face and god

[Ligonier.org, "Tabletalk" June 2024, p2]

When God created us in His image, He gave us the ability to feel and think. Our capacity to have feelings, desires, and devotions are not irrelevant to humanity. At the same time, God also blessed us with the ability to think, discern, and make decisions. Many people today do not seem to understand the difference between thinking and feeling. What's more, many are confused about how to make the right decisions and draw the right conclusions in life. In generations past, we were told, "Do what you know is right." But for decades now, most people have been taught by the culture, "Do what feels right." Furthermore, they have been taught that doing whatever feels right is the definition of freedom rather than being taught that true freedom is the ability to do what we know is right.

Not surprisingly, many in our day are questioning their identity, sexuality, and gender based on mere feelings. This should deeply sadden us and prompt us to proclaim the gospel to all with compassion and care. People who are confused in this way need to know the grace of God in the good news of Jesus Christ.

When unbelievers exchange the truth about God for a lie, they will naturally exchange what they know for what they feel. They will exchange their knowledge of what they know is true for their most base feelings of what they hope will give them the most readily apparent pleasure. In the end, people who are separated from Christ will do what feels most pleasurable. In this, they receive encouragement from culture, which tells them not to bring their feelings in line with reality but to bring reality in line with their feelings.

Even we as Christians can sometimes be deceived by our feelings. We can fall into deep unhappiness, loneliness, despair, or shame and feel as if we are not truly saved. This can occur when we feel beaten down by our sin and when our enemy accuses us. We must remember that sometimes our feelings are the greatest liars. We must not allow our feelings to override what we know to be

true. We must preach the gospel to our feelings and ask the Lord to help us not forget that we are in Christ. We must never allow our doctrine to conform to our feelings, but we must always make our feelings conformed to our doctrine.

**Fructose:** Dr Robert Lustig. A Pediatric NeuroEndocrinologist and Professor Emeritus UCSF

The sugar industry paid off Harvard Scientists \$50,000 in today's money to publish scientific papers in the New England Journal of Medicine (NEJM), saying sugar was not a problem but the real problem was saturated fat. Which they knew was a lie. We are still following this lie. Exonerating sugar. As did the National Institute of Dental Health (NIDH) where they infiltrated the Dental health Committee and got them to spend big money on a dental carries vaccine (dental cavities[See UCSF "Industry Documents Library, BC Sugar Company Records, [see:<https://www.industrydocuments.ucsf.edu/results/#q=Corporate%20interference%20with%20health&h=%7B%22hideDuplicates%22%3Afalse%2C%22hideFolders%22%3Atrue%7D&cache=true&count=12>

[864](#)



. They knew what they were doing was a lie.

The truth is that sugar makes you unhappy, at least Fructose does. Table sugar is sucrose which is made up of glucose and fructose, 50 50. The glucose is good for us and that is what our brain uses mainly. However that is not the case for fructose, and high fructose is even much worse. As a result, 22% of Americans are clinically depressed.

Serotonin is the brain neurotransmitter that is the happy neurotransmitter, the long lived, the giving, the social, the "not leading to addiction neurotransmitter". Does not downregulate it's own receptor because it's not a excitatory neurotransmitter, it's a inhibiting neurotransmitter, it puts the next neuron to rest= calming. The only thing that down-regulates serotonin is dopamine. Therefore the more pleasure you seek, the more unhappy you become. We have been told the lie for the last 100 years that **Pleasure = Happiness**

Dopamine is not only the pleasure neurotransmitter, it suppresses serotonin and can lead to addiction. It is a excitatory neurotransmitter when released by the nucleus Accumbens region of the brain and binds to it's receptor to give you a reward. But too much reward causes the next cell to fire and chronic stim of any neuron=cell death. Now, more Dopamine=less reward = tolerance and can lead to addiction.

Fructose is not essential for life and at high doses is TOXIC! Max dose is 6 to 8 tsp/day equals 12grams Fructose/day (like 12 grams of alcohol.day doesn't cause liver damage. HOWEVER, we use 50g.day of Fructose (or 100 grams of sucrose) which is quadruple our limit for health. Fructose is hidden in every processed food we eat. The labels do not tell you of this toxic fructose, they are allowed by the Food and Drug FDA to just say "grams of sugars/serving". You will never see the truth of "Grams of



Fructose /serving". Remember our upper limit for health is only 6 teaspoons/day "TOTAL". But for Children it is less for health, only 4g to 6g /day for children. 29% of American Children consume the National School Breakfast, (1 Bowl of fruit loops and orange juice, = 41g of sugar (20.5 g of Fructose).

The food industry learned that the more sugar you add to a food the more they can sell.

.Fructose's toxicity has nothing to do with its calories (calories are a ruse)

Leading to:      1. Metabolic      complications  
                         2.Systemic health      ..  
                         3.Mental Health      ..  
                         4. Societal      ..

30% of sugar consumed comes from beverages, especially in lower class poor where it destroys many.

1 sugar drink per day = 29% greater risk of Diabetes

2 sugar drinks/day = 58% greater risk of diabetes.

Diabetes is the main cause of death in 40% of death certificates today.

Diet beverages merely means the toxicity of 1 regular soda = the toxicity of 2 diet sodas.

They are still bad, you still get the insulin release because your brain tells your pancreas even if 0 fructose and 0 calories, your tongue signals your brain and you get a bigger insulin release when you eat additional food.. see: MY Pepino, U Illinois Champaign Urbana. (fshn).

## **Food Fascism and Depopulation of the West**

The food industry subscribes to a calorie model. Totally about the "quantity" of the fool not the quality of the food. (Not the amount of heat produced within a bomb calorimeter, rather what sugars made up the food) The Food industry doesn't seem to want to change according to professor Robert Lustig a professor of pediatric endocrinology. Lustig, who has been battling the scientific arena of the food industry to reduce Fructose powerfully. He has law suits against labeling of food and the 256 or so names of sugar they use to disguise the sugar added to their products. Look at any label the FDA allows on food and your will see "Total Sugars" or "Sugars.. almost never the amount of the toxin "Fructose grams per serving". It can be identified as a toxin. It's not like the sugar glucose which is good for us but is quite different. Fructose can be found in 70% of all items in the grocery store. His words are, "The minute you open the door to the grocery store".... your exposure to this toxin will be at a high level. We should wonder why the FDA allows this in the American diet, since it can be shown to be involved in a myriad of diseases and destruction, no doubt responsible in part for the poor state of health of Americans with the most expensive medical care ever. Sucrose the real name for granulated sugar, is 50% glucose and 50% fructose. It coats most of the cereal that our children eat and as I mentioned was imbedded in 70% of the food that we buy.

## **Why Fructose is a toxin (after Drs. Lustig and Johnson)**

(Transcribe the video)

Also see “you are eating too much sugar Model by Lustig etc:

<https://www.youtube.com/watch?v=VBmvvP53818>

@38 min on amdglyda the “Fear Center” is under attack and stress. He is working on a computational model of the Lymbic system.

## **Politics of Control of Food and Medical Care in a Totalitarian Society**

The politics of fructose is that anytime the food industry makes a food sweeter, it sells better. It so happens the easiest sugar to add, and the cheapest is fructose, the real sweet half of sucrose-granulated sugar. The problem begins when we see that while glucose is the key food for the brain and most cells in the body, like the retina, fructose is not the same. In fact if we follow Dr. Lustig’s advice and look for energy defined as ATP production by the energy machines in most of the cells of our bodies mitochondria, we find out that Fructose actually inhibits ATP production when compared to glucose. But remember glucose is not so sweet, so the money involved in controlling the practice of doctoring the food with fructose can be found in Congress and the Administration. Apparently money talks and our health deterioration is also a money maker for the health industry. Even though Lustig and many others have been arguing for a change, showing the fructose is basically killing many of us or certainly making us sick and unable to be a much more productive society than we are has been suppressed by media, reporters and the same business of greed that runs the corporate boards of a Fascist Nation.....defied as a government bonded and run by Big Tek corporations who control all not” by the people and for the people” as our Constitution and Declaration of Independence declare. That’s what made us great before this great calamity. Fortunately it can be fixed if we raise our voices...If you have time please visit one of



Dr Lustig’s conversations describing the overwhelming evidence. At this location. .or his discussion with another scientist imbedded in the battle. Dr Richard Johnson interested in Fructose as



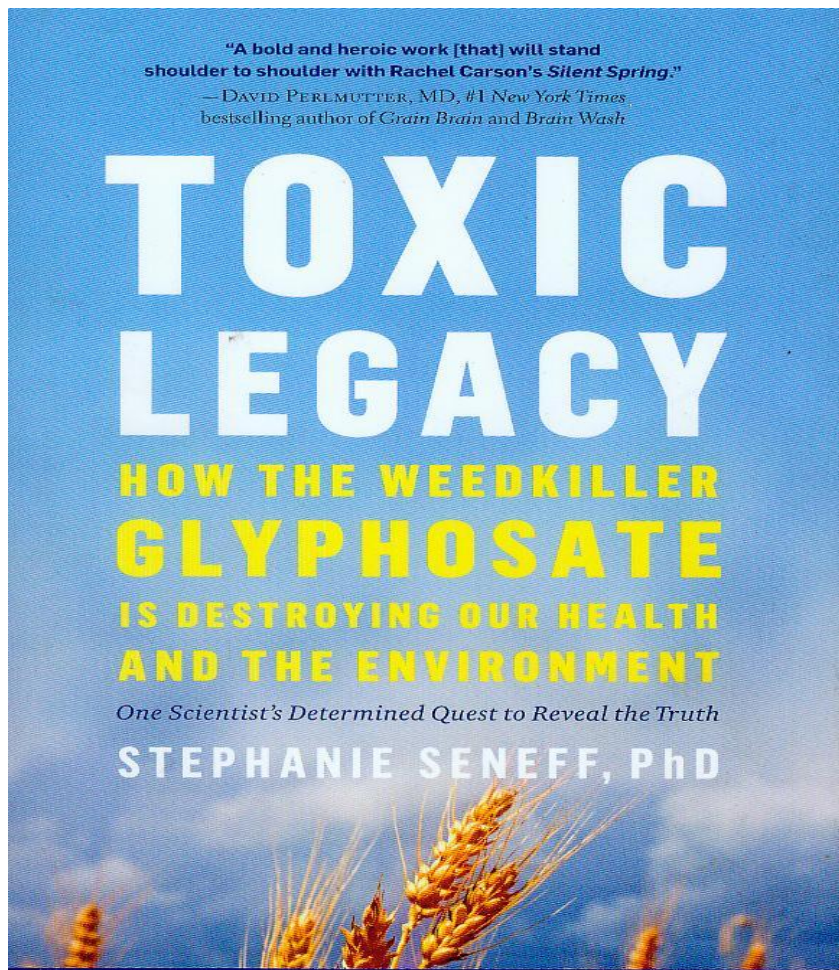
contributing to Alzheimer’s at this location. .

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## Depopulation 1<sup>st</sup> by Poison and then by Injection: Toxicology

Does it appear that there is an ever so concealed attempt to destroy an enormous component of the population with toxic chemicals known to be harmful and known to likely kill many humans or make us vulnerable for illness. I have chosen two of the many that stand out. The first is based on key research by an MIT scientist exposing the weed killer/insecticide glyphosate that is seemingly everywhere today in the environment and in us.



**"300 million pounds of glyphosate-based herbicide are sprayed on farms, food, lawns, and parks every year in the US.. Mostly made in China." [Seneff, Stephanie. Front flap]**

19 billion lbs. have been applied on the earth since 1974, 1.4 Billion lbs. per year.

Europe allows us to ingest 0.5 microgram/day per kilogram body weight while the EPA suggests 0.5 mg/kg/day can be consumed. The Food and Drug Admin. value is 1000 times greater than allowed in Europe... an amazing discrepancy for an agency that is there to protect us. for more details see the Appendix #2 pp 158-169

We learned in Chapter 6 that the aromatic amino acids are the key to brain function in the microtubules. The Three amino acids our bodies can't make that are referred to as tryptophan, tyrosine, and phenylalanine. Three of the 20 coding amino acids that make up the proteins of the human body. It just so happens that the way this insect killing and weed killing substance works by destroying the production of these critical amino acids in anything it comes into contact with, the famous and important shikimate pathway. Isn't that amazing and isn't that surprising. The manufacture, Monsanto and it's owner Bayer (and Bayer's Rothschild-IG Farben WWII owner) tells us and the governing bodies of the world that because man doesn't have the shikimate pathway, therefore glyphosate is not dangerous therefore we don't even need to test our water for it. And the FDA and the CDC don't. Crazy!

Lets develop the findings of the wonderful Dr Stephanie Seneff PhD about this glyphosate. If anything will lead to depopulation after you read her arguments you will suspect this stuff can do it! Please be aware that those wishing to kill us will see that the price of diesel fuel for our farm tractors is so expensive that our farmers will be compelled to not PLOW the ground but instead will harrow the soil lightly and "sterilize" the soil with glyphosate compounds killing weeds and insects at one fell swoop.....thus explaining the 300 million pounds/year. Then, because this stuff harms the food plants, they sell a genetically modified seed that is resistant thus leading to greater production per acre and ensuring the binding of the farmer to the chemical manufacture. There were many excellent scientific papers on the Toxicity of glyphosate published before but Dr Seneff and Rachel Carson's "Silent Spring" (DDT) are the first public expose of the enormous problem of indiscriminant use of insecticides. It seems DDT in the 1950's was chasing the world-wide killer malaria. What glyphosate seems to be chasing is the almighty dollar. Lets outline its harmful effects.

When you study it's history, it was invented to strip mineral deposits off pipes and boilers, then use as a herbicide in agriculture, and finally as an oral antibiotic (US patent number 20040077608 A1 awarded 2004). The molecule obviously has a strange collection of properties: a chelating agent, weed killer, and antibiotic. So what does it do to us. Please see the history where it is called "the perfect environmental solution at the perfect time...one of, if not the safest herbicides in history". [Roundup. "The History of Roundup." <https://www.roundup.ca/en/rounduphistory>]

Dr Seneff's harms that can be related to glyphosate are: [see: Seneff, Stephanie. "Toxic Legacy: How the weedkiller Glyphosate is destroying our health and the environment". Chelsea Green Publishing, White River Junction. 2021]

1. Danger to us as a chelator: removes key +2 cations minerals
2. Danger re : cancers
3. Danger to our environment
4. Danger to our inner microbiome
5. Danger when it replaces the common amino glycine in our proteins.
6. Danger when glyphosate suppresses enzymes that bind molecules that bind phosphate.
7. Danger if glyphosate erodes the body's ability to maintain adequate sulphates essential for health.
8. If glyphosate disrupts PEPCK (phosphoenolpyruvate carboxykinase) making fatty livers.
9. Danger if glyphosate disrupts reproductive systems.
10. Danger if glyphosate exposure correlates with neurological diseases like autism, Alzheimer's, and many complex problems when glyphosate penetrates the blood-brain barrier or disrupts neurotransmitters.
11. Danger if vitamin B12 cobalamin (contains the mineral cobalt) is disrupted or at to low a level.
12. Disrupts other Hormones like Oxytocin, Thyroid hormone and perhaps more hormones
13. The 80 autoimmune diseases perhaps caused by foreign-looking proteins caused by misfolding mechanisms driven by the toxin glyphosate.
14. Even collagen may be damaged by this toxin.
15. There is a suggestion that high-glyphosate use countries have greater risk for death from COVID-19.
16. Danger from Glyphosate damage to microtubules as in Alzheimer's

Seneff on Youtube



A short discussion of some of these harms:

1. **Danger to us as a chelator:** removes key +2 cations minerals from our crops meaning they will be deficient in zinc, copper, manganese, magnesium, cobalt and iron. disrupting our immune system. These are cofactors and key elements for normal enzyme (Protein) function such as for consciousness and gut membranes.

## 2 **Danger re: cancers**

Seneff points out that glyphosate damages the all important P53 promoter gene that suppresses cancer <sup>i</sup>. [King et al. Lab Investigations 81(4):573-79(2001)] Bayer has settled \$10 Billion in 10,000 lawsuits with plaintiffs claiming they got cancer <sup>ii</sup>.

3. **Danger to our environment.** A microbial gene that produces the enzyme EPSP is inserted by Bayer/Monsanto into Roundup Ready corn, soy, canola, sugar beets, alfalfa, cotton, tobacco to make them resistant to killing by Glyphosate. And it is a ripener and drying agent in wheat, oats, barley, sugarcane, sunflower seeds, and legumes such as chick peas, lentils, and soybeans. Lars Bergation et al found the rate that glyphosate degrades in the natural soil of sand and clay. After 748 days 59% of glyphosate was still present. Seneff notes that all this glyphosate is inducing an epidemic of pathogenic fungal infection in plants, animals, and humans. <sup>iii</sup>[Seneff p25]. Especially an overgrowth of mycotoxins of *Fusarium* *Fusarium* and *Aspergillus* strains of fungi (ibid p20). Glyphosate severely suppresses **taurine** uptake. <sup>iv</sup> [Li, W. et al Molecular Biosystems 9(3) 522-30 (2013)].

If Seneff is correct that glyphosate disrupts the eNOS function would mean that the major vascular vasodilator is disrupted with enormous full-body disruption to plasma membranes as well as interference with sulfate supplies <sup>v</sup>[ibid 97]. Taurine is a very important amino acid (though not technically essential) for some reason it is stored in high concentration in the heart, liver, and brain and we don't know why. It must be a very important soluble sulfur reserve and glyphosate blocks its conversion to sulfate---where sulfate is critical for function. Seneff suggests, "Sulfate is as important as oxygen". [ibid p 99<sup>vi</sup>]. glyphosate kills any organism that

possesses the shikimate metabolic pathway (designed to make aromatic amino acids) [ibid p39<sup>vii</sup>]

#### 4. **Danger to our inner microbiome**

[Lydia Leino et al. J. Hazardous Materials (2020) found 54% of gut species carry a glyphosate susceptible version of EPSP synthase. So glyphosate is heavily messing with our gut biome which are about for health and body function. And as I mentioned above: Especially a overgrowth of mycotoxins of *Fussarium Fussarium* and *Aspergillus*<sup>viii</sup> *Developing children and babies in their mother's womb are most susceptible.*

#### 5. **Danger when it replaces the common amino glycine in our proteins.**

Since Glyphosate is a water soluble glycine it can do really bad things. See Appendix #2 page 158

The fact that one of the most common amino acid in our proteins is glycine and it's possible for glyphosate to replace it and completely screw up the protein is the most dangerous problem and "...gives rise to man's diverse diseases."<sup>ix</sup>[ibid Seneff p56] See her entire chapter labeled "Amino Acid Analogue" pp55-71.

6. **Danger when glyphosate suppresses enzymes that bind molecules that bind phosphate.** Glyphosate suppresses key enzymes in the critical citric acid cycle (succinate dehydrogenase) and glucose-6-phosphate-dehydrogenase and critically any phosphate attached to PEP (phosphoenolpyruvate). Seneff's point that any protein with any "motif" or susceptibility patterns are vulnerable( and she gives us these) will be disrupted by glyphosate.<sup>x</sup>[ibid p74]

See Appendix #2b page 158

7. **Danger if glyphosate erodes the body's ability to maintain adequate sulphates essential for health.**



8. **Danger to Livers.** If glyphosate disrupts PEPCK (phosphoenolpyruvate carboxykinase) making **fatty livers**. Robin Mesnage et al reported glyphosate levels in kidneys and livers about a hundredfold greater in farm animals than in their fat or muscle.<sup>[xi]</sup> Mesnage, Robin et al. "Potential Toxic Effects of Glyphosate and Commercial Formulations below Regulatory Limits." *Food and Chemical Toxicology* 84:133-153.(2015). Turkmen found the most important anti-oxidant glutathione "was greatly reduced" in blood, brain, heart, liver, and kidney of rats.<sup>xii</sup> [Turkmen, R., et al. *Toxicology Research (Cambridge)* 8(2):238-45 (2019)]

Unbelievably Ranchers in the USA fed physically confined livestock Ractopamine to increase the ratio of muscle to fat ratio, pig feed fed Paylean and Optaflexx to cattle and to turkeys, Tomax. "At least 160 nations have banned the use of ractopamine, including Russia, China, Taiwan, and all 27 countries of the E.U.[see:Shieh, J. et al "Statutory safety quarantine and its compensation of consumer's long term intake of food additives". *J. Agriculture and food Research* 7(March):100264] These authors report there is no scientific information that it is safe for humans. The paper shows the finding of ractopamine in the persons urine and summary of the law suit resulting where the heart, tremors, headaches, muscle spasms, and high blood pressure resulted.

Using a discussion of what this feed does I give you a summary of studies describing the adverse effects of this additive describing what it does to animals.<sup>xiii</sup> According to Wellenreiter and Tonkinson (1990), ractopamine dramatically boosted blood serum cholesterol and albumin levels while decreasing triglyceride, blood urea nitrogen, and globulin levels. Strydom *et al.* (2009) found that dogs given ractopamine had excessive pathological lesions in the heart, such as cardiac myofiber fragmentation with fibrosis near the hepatic artery, which was disrupted by fibrin and free red blood cells. Dogs given 1 mg/kg ractopamine for 9 days had elevated troponin levels, indicating myocardial injury, as well as necrosis and fibrosis. Yaeger *et al.* (2012). According to Nasroallah *et al.* (2013), ractopamine raised serum glucose, cholesterol, triglyceride, and lipolysis while simulating protein synthesis and decreasing uric acid. According to Asadi *et al.* (2013), hemoglobin content, red blood cell counts, mean corpuscular volume, mean corpuscular hemoglobin,

mean corpuscular hemoglobin concentration, and white blood cell counts did not differ between grill chickens fed different amounts of ractopamine. Giannetti *et al.* (2016) found that beta-agonists reduced lipids or lipolysis in sheep, which is caused by lipases that hydrolyze triacylglycerols to glycerol and free fatty acids-facilitates glycolysis, oxidation, and the tricarboxylic acid cycle, all of which can contribute to protein synthesis. According to Pane *et al.* (2020), ractopamine reduces extremely low density lipoprotein and increases Hematocrit and mean corpuscular hemoglobin concentrations while improving physical performance. Rivera *et al.* (2022) found that ractopamine increased daily weight gain by 30% while decreasing food conversion rate.

Seniff reminds us this additive is given to animals who can't exercise to offset their extremely fatty meat and bodies and the fact they were given foods high in GMO Roundup Ready corn, supplemented with soybean meal, wheat middlings, barley, cottonseed, and sugar beets.....feed often highly contaminated with glyphosate. "(this additive) is likely to cause harm to humans who consume it".<sup>xiv</sup>

Glyphosate at doses BELOW regulatory limits caused **fatty liver disease** in rats and **fatty liver disease** is an epidemic among humans today, even among young people.<sup>xv</sup>

9. **Danger if glyphosate disrupts reproductive systems.** When the 2<sup>nd</sup> and 3<sup>rd</sup> generation rats were bred to each other, the males had prostate cancer and the females couldn't deliver pups alive or they died during the pregnancy. Likely due to modification of proteins (enzymes proteomics). Monsanto complained that the glyphosate was injected into the rat but the scientists said it was not a greater dose than standard exposures.(interview with the Wash. U. Lab Scientists by channel 2news Spokane) I have the video.
10. Danger if glyphosate exposure correlates with neurological diseases like autism, Alzheimer's, and many complex problems when glyphosate penetrates the blood-brain barrier or disrupts neurotransmitters.
11. **Danger if vitamin B12** cobalamin (contains the mineral cobalt) is disrupted or at to lower level. It is a chelatlor so it removes the cobalt we need as a cofactor as in 1. Above.
12. **Disrupts other Hormones like Oxytocin**, Thyroid hormone and perhaps more hormones

13. The **80 autoimmune diseases perhaps caused by foreign-looking proteins caused by misfolding mechanisms driven by the toxin glyphosate.**

14. **Even collagen** may be damaged by this toxin.

Seneff points out that collagen is considered the body scaffolding. Since it has a characteristic GxyGxyGxy motif.....where every third amino acid is a glycine it is extremely vulnerable to glyphosate substitution.<sup>xvi</sup>

15. There is a suggestion that high- glyphosate use countries have **greater risk for death** from COVID-19.

Nancy Swanson et al found The Pearson correlation coefficients are highly significant ( $< 10^{-4}$ ) between the percentage of herbicide-tolerant genetically engineered crops (corn and soy) planted in the US and hypertension (R = 0.961), stroke (R = 0.983), diabetes prevalence (R = 0.983), diabetes incidence (R = 0.955), obesity (R = 0.962), lipoprotein metabolism disorder (R = 0.955), Alzheimer's (R = 0.937), Parkinson's (R = 0.952), multiple sclerosis (R = 0.876), hepatitis C (R = 0.946), end stage renal disease (R = 0.958), acute kidney failure (R = 0.967), cancers of the thyroid (R = 0.938), liver (R = 0.911), bladder (R = 0.945), pancreas (R = 0.841), kidney (R = 0.940) and myeloid leukaemia (R = 0.889). The significance and strength of the correlations show that the effects of glyphosate and GE crops on human health should be further investigated.<sup>xvii</sup>[Swanson, Nancy et al., "Genetically Engineered Crops, Glyphosate and the Deterioration of Health in the United States of America," *Journal of Organic Systems* 9: 6-37, 2014.] The Authors Make this statement:" Here, we show how interference with CYP enzymes acts synergistically with disruption of the biosynthesis of aromatic amino acids by gut bacteria, as well as impairment in serum sulfate transport. Consequences are most of the diseases Swanson, Leu, Abrahamson & Wallet *Journal of Organic Systems*, 9(2), 2014 ISSN 1177-4258 10 and conditions associated with a Western diet, which include gastrointestinal disorders, obesity, diabetes, heart disease, depression, autism, infertility, cancer and Alzheimer's disease. We explain the documented effects of glyphosate and its ability to induce disease, and we show that glyphosate is the 'textbook example' of exogenous semiotic entropy: the disruption of homeostasis by environmental toxins" (p. 1416).

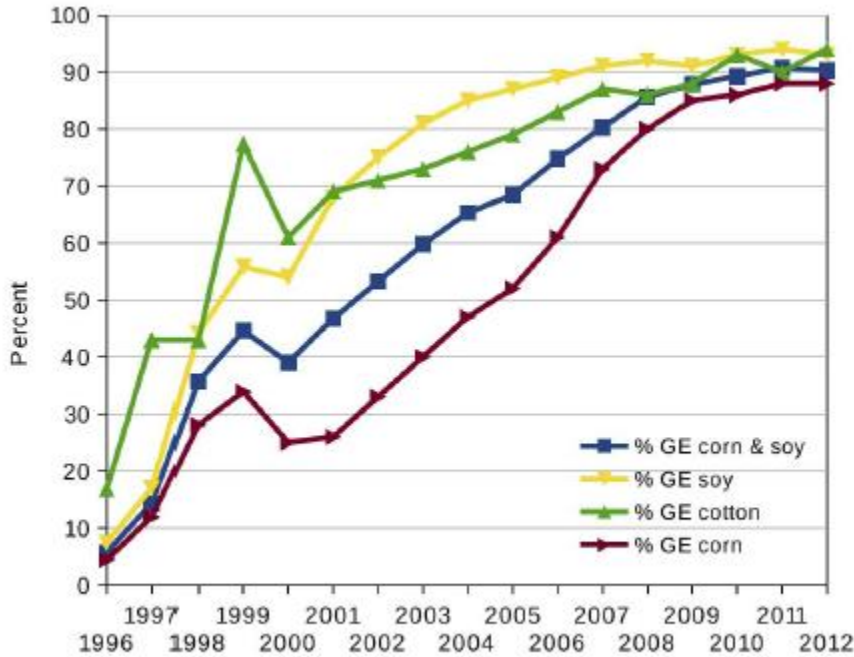


Figure 1. Adoption of GE crops in US.

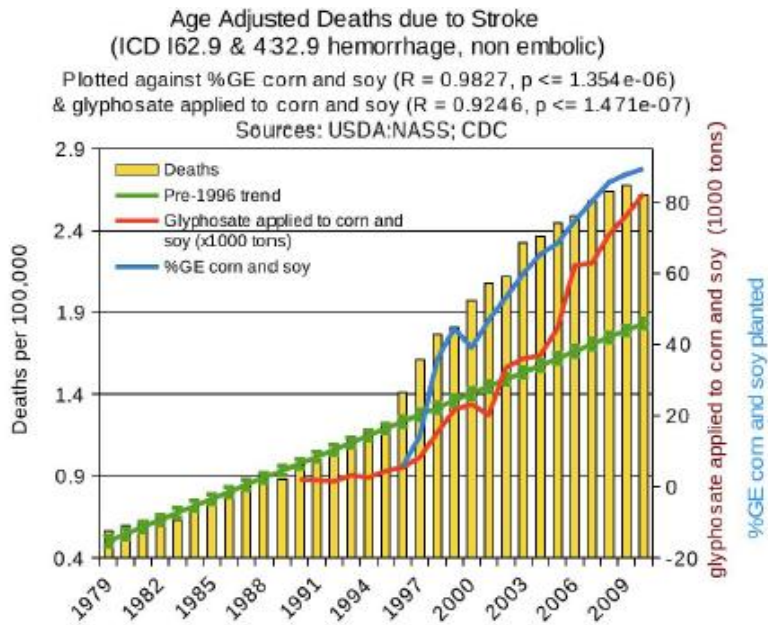


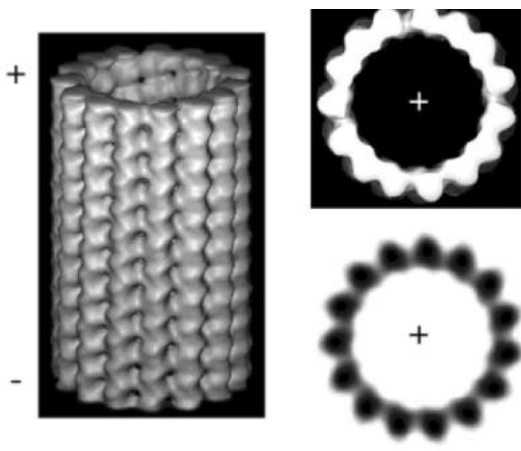
Figure 12. Correlation between age-adjusted hemorrhagic stroke deaths and glyphosate applications and percentage of US corn and soy crops that are GE.

They took the USDA data of Corn and Soy that is Genetically Engineered to tolerate Glyphosate (GE) crops and applied to the CDC data on Stroke, Hypertension, and 4 types of Cancer( only Stroke is shown above) to calculate the remarkable level of correlations. While the correlations do not prove cause, if you square the R values you get the percent of the variance that can be explained by the Genetic Engineering's. I am sure the manufacture will argue this , by itself doesn't prove anything, but the relationship is remarkable and disease has definitely increased

in the same direction as the increase in genetic engineering, calling for further detailed study by the CDC and the FDA and those dedicated to protecting the USA.

## 16. Danger from Glyphosate damage to microtubules as in Alzheimer's dementia.

Recent evidence that the Tau in Alzheimer's microtubule is disrupted.[ MICROTUBULE DYSRUPTION in ALZHEIMERS(Gendron and Petrucelli, 2009)<sup>xviii</sup>. Alzheimer disease brains have defective microtubule assembly (Iqbal et al., 1986)] Malina K. Iwanski of, Neurobiology and Biophysics, Department of Biology, Faculty of Science, Utrecht University discuss microtubule subsets in terms of tubulin isotypes.[ Iwanski MK and Kapitein LC (2023),Cellular cartography: Towards an atlas of the neuronal microtubule cytoskeleton.Front. Cell Dev. Biol. 11:1052245.doi: 10.3389/fcell.2023.1052245]. Tubulin isotypes and their Post Translational Modifications such as the removal of the terminal tyrosine ,make up the so-called tubulin code <sup>xix</sup>[Janke and Magiera,2020; Park and Roll-Mecak, 2018; Roll-Mecak, 2020).]



**These microtubules have polarity:** Taken from (Sosa and Chrétien, 1998 [Sosa, H., and Chrétien, D. (1998). Relationship between moiré patterns, tubulin shape, and microtubule polarity. Cell Motil. 40 (1), 38–43. doi:10.1002/(SICI)1097- 0169(1998)40:1<38::AID-CM4>3.0.CO;2-B]

It's been accepted for some time that there's abnormal hyper phosphorylation of tau in Alzheimer's. [Z. Wang et al., "Abnormal hyperphosphorylation of Tau; Sites, A regulation, and Molecular Mechanism of Neurofibrillary degeneration." Journal of Alzheimer's Disease 33: S 123-39, 2013.] Dr. Seneff dedicated an entire chapter to the phosphate puzzle of glyphosate. [pp72-86] . While it's yet to be proven that glyphosate contamination of proteins with phosphate in the case of Alzheimer's tau protein is occurring , it is a pretty powerful suggestion that it's happening. And we humans will be degraded by this process. I have researched

Alzheimer's with respect to midlife hypertension suddenly occurring leading to Alzheimer's dementia . Meta analysis of all the available data at that time indicated there's a relationship but the causal mechanism is really hard to figure out. If you're interested you can read that paper by CL Carter and Melanie Wiebe at <https://www.bible-science.com>.

More recently the findings that the newly discovered membrane mechanical sensors Piezo1 and Piezo2 that are the soft touch sensors probably responsible for our consciousness of the real world are operating in the small vessels that supply energy and nutrients to our hypothalamus where Alzheimers and memory intersect, should raise a flag of concern for all of us as this so-called "farming benefit chemical" raises higher and higher in the human population's tissues. They also are sensors within the red blood cell.

Are we being depopulated quietly?

This “intuitive knowing” is very close to what Roger Penrose describes for us, pointing out that Max Plank and Neils Bohr (at the end of their lives) told us that “the essence of the universe is not materialist.” This anti-God materialistic determinist is at the very center of this theory of Mass Formation.

## **The Emotional Climate of Mass Formation DESMET**

It is a form of psychosis, a disturbance in the minds of small or large groups—to the degree where there is a loss of contact with reality. Often with an eclipse of morality and objectification of an imagined enemy. The hostile and dismissive response to Desmet ’s perspective on the COVID-19 pandemic’s emotional climate is both fascinating and revelatory. For example, when a respected veteran of molecular biology and a pioneer in mRNA research presented and amplified Desmet’s mass formation theory, the mass media displayed outrage and labeled it as “discredited and bunk” without any argument at all. Even carefully mocking it as “it sounds like the name of your friend’s failed high school band” (MedPage Today).

## **Group-Leader Interaction**

It is of note that totalitarian leaders are deeply into this strange ideology, so much so that they are caught up in a form of hypnosis themselves. Strangely, when the leaders are removed from the crowd (or group), Desmet notes that when Nazi leaders were stationed for a prolonged period of time in countries that proved unsusceptible to mass formation, such as Denmark and Bulgaria, they began to feel insecure about the cause they were serving, and the Nazi regime could no longer rely on them.<sup>xx</sup>

This suggests two things. The strange mechanism has a circular causality in which the masses and the leaders “hypnotize one another” and seemingly reinforce one another. And this system weakens when the crowd is not a believer in the scheme. So both the leader and his followers are blind to the truth.

## **Channeling Anxiety**

As we all noticed in the COVID-19 pandemic, the leader Fauci had to introduce new objects of anxiety constantly. Nazism and Stalinism were also constantly restructuring themselves...making it all seem so dynamic. Desmet points out that the pigs in George Orwell’s *Animal Farm* wrote new rules on the wall overnight. When the system is unable to tie an anxiety to an object, it loses its reason for existence. He points out the accelerating pace of restrictions on civil liberties by terrorism, climate change, COVID-19, Marburg virus, etc., a positive feedback

control with the publications of more victims, more shots, and more deaths and victims. It is a malicious deception or a mass formation.<sup>xxi</sup>

(M. Desmet p. 115.) A truth mixed with lie phenomena for not everyone was taken down due to the variability of the shot (strain variants and dose-response testing).

## **Illogical Leadership**

Desmet points out that a normal leader would want to keep control of the people once he had it by benefitting the people he has taken over, but Stalin in 1930 gained the power and instead began purges, similar to Mao. So a real mass-formation totalitarian leader lacks common sense and continues with mindless logic. It seems Joe Biden is in this category. Hanna Arendt describes this as a “monster that devours its own children.”<sup>xxii</sup>

“[...] they preached using that no-god Baal for a text, messing with the minds of my people” (Jeremiah 23:13–14, MSG).

## **Economic Ruin**

There is evidence that totalitarian regimes destroy their own economics and wreck their economies. They design waste into their system. Develop projects, so unprofitability is ever-present. Like an Econom; 101 experiment that is illogical.<sup>xxiii</sup>

(Bruno Bettelheim et al. *The theory and Practice of Hell: The German Concentration Camps and System Behind Them*, 1956. Farrar, Strauss, Giroux.)

Has the brilliant “decision-making quantum computer of man’s mind” been so disabled by mass formation that, just like idolatry, it loses its moral and spiritual underpinnings...

That special mental mechanism Roger Penrose thinks is the larger part of our consciousness?

The part suppressed by the hypnosis component of evil; control of all control “objects.” In the book of Revelation, chapters 2 and 3, Jesus describes to John the church at Thyatira, where the many local union-like groups or trade groups worshipped a statue of Apollos while they had an orgy...a process that Jesus described as a “deep thing of Satan.” Something we were warned never to enter into. (See Revelation 2:24.)

Christianity is not a religion, for all religions are about what you must do to get to God.

Christianity is all about what God has done and is doing for you. He loves you so much that He has given His only Son for you. His free gift of salvation is the most wonderful event in all reality. If you are seeking Him, He will get to you through the fog of war and “mass formation” in the battle for your mind/soul/spirit. A child is born with perhaps an infinitely wide-open



consciousness that has known only his mother's heartbeat sounds and spirit (I think), what Desmet would call "other." The world comes along with its stuff and continuously narrows that consciousness, almost like a "formation." Remember, however, when this life is over, we will be like a child before God... "Truly, I say to you, unless you turn and become like children, you will never enter the kingdom of heaven" (Matthew 18:3, ESV). We will return to that infinitely open consciousness we came here with. "Once you have the story that Jesus came on this earth for you (the Gospel), you don't just have the story of the Gospel, you have Jesus" (Robert Morris, "Good News" series). Man is given the divine authority to open the darkness door that Satan holds. Jesus made that possible 2,000 years ago. Always remember, true science is God's science. Man's science is a "moving train."

## **Sensors and human consciousness**

### **The importance of our sensors: Piezo2 receptors**

Of the very important input to physical consciousness is a sensor called the PIEZO2 mechanical receptor. It is a propeller shape sensor we know as "light touch" and it is a large component responsible for our awareness of proprioception, positioning and the immediate location of our body parts, our bladder fullness, our-lung fullness, our gut fullness, and the critical peristalsis movement of our gut. The mouse that is born without the sensor is born alive but has heavy lungs filled with fluid within 24 hours and dies. How the unconsciousness handles the information from these receptors is just being investigated at the present time.<sup>xxiv</sup>. The physical consciousness is quite dependent on our sensors and their continuous information. We know of the sensory deprivation studies where a human strapped in the water with earplugs and blinders held totally immobile is at risk of insanity in a few minutes... That is a horrible form of torture. The brain apparently feeds on its own or incorrect information and reality is lost. Some times permanently.

My own experience as a physical therapist working with soldiers just out of Vietnam jungles and strapped into a bed with balance suspension for a fractured femur. We're talking about a whole ward full of these men. I found them going from the height of sensory input from

a deadly jungle where all sensory input information is at Max to a sudden relative sensory deprivation creating a most amazing personality change and honest struggles of these brave men to keep their reality in order. The worst was seen when they read a "Dear John" letter from their wives or girlfriends which added to their deprivation and the devastating depression that ensued. Even their reflexes were attenuated along with their strength.(will we ever stop paying for that war?)

### **The Non-physical Consciousness-----our Spiritual consciousness**

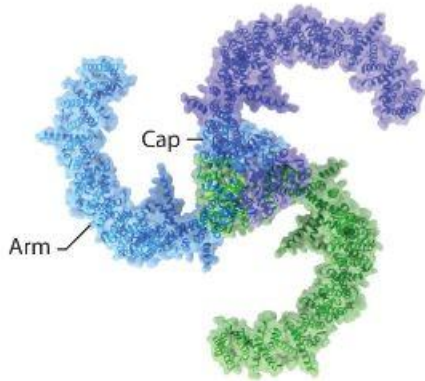
We have another consciousness that sits above physical consciousness and rules over it. That consciousness must be developed to become focused. The Word of God. Jesus provides us with an awareness as well as an awakensness that supersedes physical consciousness. I have no way to describe it in other than a "faith" that cannot be removed by physical means. Therefore it is a form of knowledge that comes from reading and learning the "Word of God".

A patient I worked with in intensive care for almost a year that had complete paralysis from bulbar Guillain-Barre. which was a record of survival, a tribute to the quality of the ICU staff. There was almost no way of knowing that Jennette was alive or responsive for at least three months. Each morning I would treat her with a complete range of motion for joints and talk to her about what was happening in the world. I also used electrical stimulation to the intrinsic muscles of her hands because that were very sensitive to no activity and would develop cross bridging and contracture without that stimulation.

Her description of how she perceived that period of time a year later was enlightening. What helped her, to maintain sanity and survive that terrible ordeal was telling her about what was happening in the world.. I somehow knew of her spiritual consciousness but I don't know how I knew at the time. I never felt I was wasting my time or effort even though there was no feedback from her showing me that she was even alive. It amazes me even now as I recall some 54 years ago what a remarkable person she was. It helped to be encouraged by her Physician, Dr. Robert Morrison, a board certified cardiologist and psychiatrist with excellent training in physiology who spent his spare time caring for the thoroughbred horses in the area. We all loved the guy.

So why do we emphasize these consciousness in a book about evil's attempt to destroy mankind? The attack on our perception and our senses by these demonic forces are opposed by

solid “rock” consciousness given us by our Lord and maker Jesus Christ. He knows what we face daily and will keep us if we call out to him. The providence comes through faith as it did for my patient and those soldiers just out of the Vietnam jungles.



Szczot M, et al. 2021  
[Credit *Annu. Rev. Biochem.* 90:507–34 ]

### PIEZO 2 receptor

The Receptor Protein was only recently discovered. It was called Fam38a and it was a very unusual molecule that did not resemble anything previously studied in the context of mechanosensation. “The gene had an enormous open reading frame (over 9 kb) that encoded a molecule predicted to span the membrane dozens of times. ( the gene that made the protein Fam38a was PIEZO1 and Fam38b was PIEZO2). God created this receptor to be used in his kingdom. It is shown to be force-gated ion channels present in plant protists and worms , insects , and multiple vertebrate species including fish , birds rodents , and humans [ <sup>xxv</sup>see: Chesler AT, Szczot M, Bharucha-Goebel D, Ceko M, Donkervoort S, et al. 2016. The role of PIEZO2 <sup>∇</sup> in human mechanosensation. *N. Engl. J. Med.* 375:1355–64...and McBride DW Jr., Hamill OP. 1993. Pressure-clamp technique for measurement of the relaxation kinetics of mechanosensitive channels. *Trends Neurosci.* 16:341–45].<sup>xxvi</sup> Each monomer contains an unprecedented 38 transmembrane segments, the most of any known membrane protein .<sup>xxvii</sup> You would



appreciate the receptor if you saw the structure laid out by scanning the QR code here: or visiting the following address: <https://www.annualreviews.org/doi/pdf/10.1146/annurev-biochem-081720-023244> (whole paper by Szczot)

There are many questions yet to be answered of these receptors:

M . Szcot paper noted above, list the following major unanswered questions.

What is the influence of Lipid bilayers (as in the CV-19 shot)These data indicate that PIEZO2 may be influenced by both intra- and extracellular protein tethers as well as **lipid bilayer curvature**. [ more detail see: Wu J, Lewis AH, Grandl J. 2017. Touch, tension, and transduction—the function and regulation of Piezo ion channels. *Trends Biochem. Sci.* 42:57–71]

**Outstanding Questions suggested by the** M. Szcot paper,

“ • What are all of the physiological roles played by Piezo1 and Piezo2? Multiple tissues express one or both Piezos (e.g. lung, colon) but the respective contributions of each isoform to mechanotransduction have not yet been tested. Even for cell types with confirmed Piezo-mediated currents, we lack information on how these currents contribute to cell function and dysfunction, in the case of channelopathies. Filling these gaps will require additional cell specific knockout models, as well as CRISPR lines to introduce and study specific mutations.

- Can Piezos be pharmacologically targeted for treatment of disease? The wide expression pattern of both Piezo1 and Piezo2 will require drugs to act in both an isoform-specific and tissue-specific manner.

- What are the activation mechanisms of Piezo1 and Piezo2? Additional, high resolution structures that capture both channels in open, closed, and inactivated states will be crucial to elucidate the full spectrum of channel function. Detailed electrophysiological characterization of channels that are manipulated genetically (e.g., chimeras and point mutations) and chemically (e.g., magnetically labeled, cross inked) will help in defining the functions of specific structural domains.

- What are the inactivation mechanisms for Piezo1 and Piezo2? Many channelopathies specifically affect inactivation, making this process an intriguing pharmacological target. This will require first understanding whether inactivation results from pore block or pore closure. • How, mechanistically, do a rapidly growing list of proteins, chemical and physical modulators, and pathways alter Piezo function? The development of new stimulation methods will be instrumental in distinguishing between direct and indirect modulation, for example, by holding membrane tension constant (tension clamp).”

Most importantly “Thus far, the Ca<sup>2+</sup> permeability of PIEZO2 has been implicated in the mechanical **regulation of axon pathfinding, cell motility, differentiation, and cancer metastasis**” [M. Sxczot et al]

A major attempt at depopulation comes with an attempt to interfere with normal functioning of the Piezo1 and 2 mechanoreceptors.

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<sup>i</sup> King et al. Lab Investigations 81(4):573-79(2001)

<sup>ii</sup> Seneff, Stephanie. "Toxic Legacy: how the weedkiller Glyphosate is destroying our health and the environment". Chelsey Green, 2021. p22

<sup>iii</sup> *Ibid* Seneff p25

<sup>iv</sup> Li, W. et al Molecular Biosystems 9(3) 522-30 (2013)

<sup>v</sup> *Ibid* Seneff p97

<sup>vi</sup> *ibid* p 99

<sup>vii</sup> *ibid* p39

<sup>viii</sup> Lyddia Leino et al. J. Hazardous Materials (2020)

<sup>ix</sup> *ibid* Seneff p56

<sup>x</sup> *ibid* p74

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- <sup>xi</sup> ,[Mesnage, Robin et al. “Potential Toxic Effects of Glyphosate and Commercial Formulations below Regulatory Limits. “ Food and Chemical Toxicology 84:133-153.(2015)
- <sup>xii</sup> Turkmen, R., et al. Toxicology Research (Cambridge) 8(2):238-45 (2019)
- <sup>xiii</sup> G.A. Shams, G.A. et al. *Journal of Advanced Veterinary Research (2024) Volume 14, Issue 2, 335-338.*
- <sup>xiv</sup> *Ibid* Seneff p115
- <sup>xv</sup> *ibid*
- <sup>xvi</sup> *Ibid* Seneff p 149
- <sup>xvii</sup> Swanson, Nancy et al., “Genetically Engineered Crops, Glyphosate and the Deterioration of Health in the United States of America,” *Journal of Organic Systems* 9: 6-37, 2014.]
- <sup>xviii</sup> Gendron,TF. Et al. “The role of tau in neurodegeneration”.*Molecular Neurodegeneration* 4:1-19, 2009.
- <sup>xix</sup> Janke and Magiera,2020; Park and Roll-Mecak, 2018; Roll-Mecak, 2020).
- <sup>xx</sup> Arendt,H. “Eichmann in Jerusalem”.Amsterdam,1963,p.307.
- <sup>xxi</sup> Desmet, M., *The Psychology of Totalitarianism*, 2022, Chelsea Green Publishing, London, p. 115.
- <sup>xxii</sup> Arendt, H., *The Origins of Totalitarianism*, p. 402.
- <sup>xxiii</sup> Bettelheim, B., *The Theory and Practice of Hell: The German Concentration Camps and the System Behind Them*. New York, Farrar, Straus and Giroux, 1956.
- <sup>xxiv</sup> Williams. PhD thesis 2018. <https://dash.harvard.edu/bitstream/handle/1/36923341/WILLIAMS-DOCTOROFMEDICINETHESIS-2018.pdf?sequence=3&isAllowed=n>
- <sup>xxv</sup> Chesler AT, Szczot M, Bharucha-Goebel D, Ceko M, Donkervoort S, et al. 2016. The role of PIEZO2  $\gamma$  in human mechanosensation. *N. Engl. J. Med.* 375:1355–64...and McBride DW Jr., Hamill OP. 1993
- <sup>xxvi</sup> Chesler AT, Szczot M, Bharucha-Goebel D, Ceko M, Donkervoort S, et al. 2016. The role of PIEZO2  $\gamma$  in human mechanosensation. *N. Engl. J. Med.* 375:1355–64...and McBride DW Jr., Hamill OP. 1993. Pressure-clamp technique for measurement of the relaxation kinetics of mechanosensitive channels. *Trends Neurosci.* 16:341–45.
- <sup>xxvii</sup> Wang L,Zhou H,Zhang M,LiuW,Deng T, et al. 2019. Structure and mechanogating of the mammalian tactile channel PIEZO2. *Nature* 573:225–29