

Chapter 46:

Interview with
Dr. Stephanie Seneff, Ph.D



Ty: Stephanie, one of the things that I'd like to be able to talk to you about today is the relationship of vaccines and glyphosate and the way that those have a synergistically detrimental effect on us.

Dr. Seneff: It's pretty remarkable, we are finding. I'm really worried about it. I began by studying the vaccines. I was looking at autism starting about nine years ago and I suspected a connection to the vaccines. I looked at, of course, mercury. There's been a lot of chatter about mercury. Then aluminum which I think is a probably more serious problem than mercury at this point because there's aluminum in a lot of vaccines especially for example the Gardasil which is really turning out to be a very potent vaccine.

The other thing that I identified was glutamate which is a neurotoxin and the flu vaccine and the MMR vaccine. The live virus grown on gelatin which is high in glutamate and also in glycine. Glutamate and glycine together activate NMDA receptors in the brain which can really put the brain on fire.

Ty: What receptors?

Dr. Seneff: They're called NMDA receptors. N-methyl-D-aspartate I think it's called, that's the technical term, but NMDA receptors in the brain which receive neurotransmitter signals but glutamate is a neurotoxin if there's too much in the brain. And autism is connected to excess glutamate in the blood, excess glutamate in the feces, and excess glutamate in the brain.

So you can see autism has a problem with glutamate but then the vaccine also has glutamate in it which is injected directly into the body. So I'm suspecting that the glutamate in the MMR vaccine and in the flu vaccine are causing symptoms. In fact, I've looked very extensively at the FDA's vaccine adverse event reporting system which is quite interesting.

When you look at an MMR and you compare it to other vaccines you find that there's a lot of symptoms that occur with MMR that are connected to MSG, the symptoms of MSG toxicity, monosodium glutamate, people who are sensitive MSG. Because the reactions to the vaccine resemble the reactions to MSG then you can suspect that glutamate might be playing a role in that reaction to the vaccine.

That's all vaccine stuff. I'd sort of learned all of that up to the point where I discovered glyphosate which was really only about three and a half years ago. Hard for me to believe because as soon as I learned about glyphosate I dropped everything else and started studying extensively on glyphosate.

Ty: Okay. What exactly is glyphosate?

Dr. Seneff: Glyphosate is the active ingredient in the pervasive herbicide Roundup which people can go down to the hardware store and buy it and use it to kill the dandelions in the yard. But it's also used really extensively on the food and exponential increase in the amount that's being used on the food every year over the past couple of years ever since they introduced the GMO Roundup-ready crops.

They have a bunch of crops that they've designed them to put a bacterial gene inside the crop so that the crop doesn't die if it's exposed to glyphosate otherwise glyphosate kills all plants. So the fact that it kills all plants might make you suspicious that it might not be benign for humans.

Ty: That should flick on a light in our brains saying, "Whoa."

Dr. Seneff: Yeah, you can't say, "It kills all plants but it's great. We're humans. We don't have any problems with this stuff. It's completely nontoxic to humans." That's the message we're given. They don't even measure it. The government says well we don't need to measure how much glyphosate is in the food because it's nontoxic to humans.

So once you have that assumption and then you carelessly are using it—so they had a complete problem with runaway weeds in the Roundup-ready crops so they had to keep on using more and more glyphosate. Now they're in a really terrible situation where they're starting to add back in all these other herbicides that they know cause terrible developmental problems.

Animals are born with all kinds of bizarre stuff. Their body's not configured correctly, two headed pigs and things like that, with these other chemicals that are known to be toxic to development. So they're going to put those back now because the glyphosate is not working anymore. They're going to add them on top of the glyphosate so a few things are going to get worse.

The glyphosate is a sleeper because it's toxicity is insidious and cumulative. It slowly erodes your health over time but it works synergistically with the vaccines. This is what I'm finding and this is what I believe in particular because glyphosate opens up the barriers. It opens up the gut barrier and it opens up the brain barrier.

The brain has usually a very secure barrier that keeps toxins out but the glyphosate messes that up. As a consequence those things that are in the vaccines get into the brain whereas they wouldn't if you didn't have all the glyphosate exposure from the food.

So the children who have sort of the leaky gut and they have the sensitivities to foods, they have gluten intolerance, those kids are the ones that are especially vulnerable to damage from the vaccines because those are all indicators of glyphosate poisoning and they're also indicators of leaky gut and leaky gut is an indicator of leaky brain.

You can get these things that are in the vaccines, the aluminum, the mercury, the glutamate, a healthy system, a healthy vasculature and healthy immune system you'll be able to just—and a healthy antitoxin capability in the liver—you'll be able to just clear those and flush them out through the kidneys. But because the glyphosate has messed up, it messes up those barriers and it also messes up your ability to detox other things.

Ty: So it messes up the liver and the kidneys?

Dr. Seneff: Yes. It attacks the liver, it attacks the kidneys and when the kidneys are damaged then you don't flush toxins, you retain them and you put them into the tissues and if you got a leaky brain you put them into the brain.

So the poor child is getting these vaccines and the stuff it's going to the brain and it's causing neurological damage with exciting these NMDA receptors from the glutamate and the glycine. But it's worse than that, this is something I've discovered recently because, really fascinating story that I have developed. We haven't published this yet, Anthony Sampson and I are working on a paper that really makes me understand why MMR is so toxic to these kids.

I've looked hard at MMR. I was puzzled by it, as I said, because it didn't have the aluminum, it didn't have the mercury but it does have the glutamate and it has the live virus. It has a live measles, mumps, and rubella viruses. Measles in particular is the one that Andy

Wakefield has zeroed in on as being problematic.

The sad thing is that he knew that back in 1998. He published a great paper and he has follow-on papers that I've read and they're all terrific. He was on to so many things about autism way back then, almost two decades ago. It is a crime that here's a person is giving us the answer and instead of saying, "Thank you very much. Here's your Nobel Prize," they basically tried to destroy his reputation.

They took away his license, they retracted the paper. It's incredible to me that the governments don't want to know what's happening to the children. They would rather just kill the messenger and make sure that no other doctor is going to go there because here's what happened to him if you want to do the same research then you can just be in that same place yourself. Who's going to do that?

As a consequence, we sit for 20 years and we still don't know what's causing autism whereas he had the answers. He already had the gut problem way back then and then he had the measles, he said measles virus is causing autism. So I think the mechanism is pretty clear and actually there's other papers that have been written that show that.

I can talk about a paper from 2002, Singh is the last name of the first author, 2002 paper. Amazing because he looked at 125 autistic kids and he measured the levels of something called hemagglutinin antibody. Hemagglutinin is a protein that's produced by the measles virus. When you get the vaccine you need to develop antibodies to the virus in order for the vaccine to take. That's the whole point of the vaccine. But if you develop too many antibodies you can get autoimmune disease.

He looked at 125 autistic kids and something like 90 something normal kids, kids who didn't have autism. He found 60 percent of the autistic kids had very high levels of this antibody to the hemagglutinin, 0 percent of the controls that had this high antibody. But worse than that, 90 percent of those kids who had the high antibody also had autoantibodies to myelin basic protein.

Myelin basic protein is a central protein in them myelin sheath, in the nerve fibers in the brain. So what this means is that these children were getting measles infection from the live measles virus because they have a very weak immune system.

The virus flourishes in the gut and then it gets into the brain because there's a leaky barrier and then the brain's immune system develops antibodies to the virus. Then, because the virus protein resembles the myelin basic protein, you get a mistake in antibody to the myelin basic protein. This is how this whole molecular membrane stuff works.

Ty: And that's what causes autoimmune.

Dr. Seneff: Yeah and all these autoimmune diseases that we have, the rheumatoid arthritis, multiple sclerosis and even Alzheimer's. People have written papers saying autism is an autoimmune disease, it's something that's controversial.

But to have those autoantibodies to the myelin means that the body's immune system is going to attack the myelin sheath and take it apart. It's going to really destroy the neuron's ability to do the long distance communication that you need because these are the long axons that go to the physical world.

These kids have sensory input problems, they have communication problems. They're lost

in their own world because those long, long axons that get you to the outside world are not working. They've been completely – it's like attacked by bugs – they've been completely eroded away.

Ty: Wow.

Dr. Seneff: Like termites. You might say that the autoimmune reaction is like termites attacking those fibers so that they don't work anymore. To me that makes a whole lot of sense.

What's extremely interesting is that Anthony Sampson and I are working on a new idea that glyphosate can substitute for glycine during protein synthesis. When you make a protein from a DNA code you have a bunch of amino acids, there's like 20 of them. The code from, the four letter code which goes to the three letter sequence, all the stuff with the DNA, you see the three letter code. When you're making amino acids you see the code, you put the particular amino acid in for that code, and you build the beads on a chain.

When you see the code for a glycine GGC and you're the machinery who's making the protein and you say, "Oh, good. Here's the glycine," you put it in there. But it turns out it's glyphosate because glyphosate is a glycine molecule. It just has something stuck on for the nitrogen. If this is true it's absolutely huge. I gave a talk about this yesterday at this meeting. I'm going to talk more about it tomorrow morning.

Ty: So we could be synthesizing glyphosate in our protein build?

Dr. Seneff: It's incredible because collagen, for example – Collagen contains tons of glycine, a quarter of the amino acid residues in collagen are glycine all of those could become glyphosate.

So if you've got collagen in your joints, which of course you do, and it's loaded up with glyphosate it won't form the proper structure. The helix structure of the collagen will be disrupted and then you'll get all kinds of joint pain, all the joint swelling, all these problems that we have with our joints.

Ty: All the stuff that we're seeing happen today.

Dr. Seneff: Exactly, and the rheumatoid arthritis. You're getting all kinds of issues with the joints. And the bones too, of course, also depend upon glycine in the collagen. But the collagen is what's used to make the gelatin that the vaccine is grown on. They harvest the gelatin from pigs, from the ligaments of pigs, and the pigs are fed a heavy dose of glyphosate.

So you do the math. The pig's eating the glyphosate, there's tons of glycine in the collagen. If we're right about glyphosate going into the protein then the collagen with the glyphosate in it is used to make the gelatin and the virus is grown on the gelatin. So the virus has access to glyphosate.

We have a theory. We haven't proven this, we need to get measures. We can do it but we're working on getting numbers, those hard numbers but right now we just have it as a theory. If the vaccine contains glyphosate that's embedded in the proteins that the measles virus makes and in particular the hemagglutinin which contains glycines that are essential for its function. So if those glycines are replaced by glyphosate, first of all, the glyphosate makes the protein less able to be broken down. Furthermore, glyphosate disrupts the immune system of the child.

So the child has a weakened immune system and a weakened immune system is not able

to clear viruses well anyway. In fact, the whole point of the vaccine is to weaken your immune system so that you will make these antibodies because if you had a strong immune system you wouldn't make the antibodies and the vaccine would fail. Ironically, you have to have a weak immune system in order for the vaccine to succeed.

But it succeeds too well with these autistic kids because they have such a weak immune system and this hemagglutinin can't be broken down because glyphosate's in there. The hemagglutinin sticks around, the measles gets into the brain, the body develops the antibodies, and then you have the autism. To me that makes a lot of sense. That's sort of my best explanation at the moment for what's causing autism.

Ty: It's a fascinating theory and it sounds like you've got a lot of evidence to back that.

Dr. Seneff: I feel that way. It's also speculative at this point but there's a lot of literature that backs it up and there are plenty of people who are talking about autoimmunity is actually very clearly connected to viruses having protein sequences that resemble the protein sequences in our own proteins. That's really how autoimmune disease work.

Ty: Right. That's why we attack our cells, the immune system attacks the cells.

Dr. Seneff: Yes. It's because we first attack some something that's living in us like a virus or bacterium. We have this innate immune system which is a strong one that could simply kill them off. That system depends on sulfate and glyphosate induces a severe sulfate deficiency problem. That's why these autistic kids have a weakened immune system.

Ty: Wow.

Dr. Seneff: The whole thing is a complete set up for failure. To me it's just really, really terrifying.

Ty: Yeah, it is. Do you deal with children that are autistic?

Dr. Seneff: I don't. I'm completely theoretical. I haven't had so much of a chance to even get to know an autistic person which is quite remarkable. But I'm very fascinated by the disease and I really feel happy that I'm making progress in understanding what's causing it because we need to get to the bottom of it and then we need to fix it. The really good news, if I'm right, is that if we simply ban glyphosate we go a long ways towards the solution.

Ty: Sure, I was at a health conference in Vegas a couple weeks ago and Mike Adams chimed in via Skype. His whole lecture was glyphosate.

Dr. Seneff: Oh great, that's wonderful.

Ty: It is a big elephant in the room that we need to start talking about.

Dr. Seneff: It is, it's really been a sleeper. It's incredible to me how well the company has been able to suppress the information about its toxicity.

Ty: What kind of logic is that logic is that?

Dr. Seneff: Yeah, I know.

Ty: "It kills the plant, it kills everything living but it doesn't hurt you."

Dr. Seneff: It's just really incredible. It kills microbes, they know it kills microbes, it kills the plants and they say, "Well, it doesn't hurt us at all."

Ty: What do you think we're made of? We're made of microbes.

Dr. Seneff: Well, I know. That's right. We have so many. There's like ten times as many of them as there are of as and more than a hundred times as many genes. So that's pretty amazing.

Ty: Yeah, that makes no sense.

Dr. Seneff: But you look at all the food allergies and that's also so easily explained by glyphosate because the kids have trouble with the casein in the milk, the gluten in the wheat, they have the soy, they have the peanuts. Those four are all loaded with glyphosate.

It's so clear from the way they're grown. The weed is sprayed with glyphosate right before the harvest, so are the peanuts. The soy is GMO Roundup-ready. The casein comes from the milk of cows that are fed huge amounts of glyphosate in their diet and Zen Honeycutt has shown that the glyphosate gets into the milk.

Ty: And Mike has shown that it actually survives digestion. It survives human digestion.

Dr. Seneff: There's an interesting thing that I learned about multiple sclerosis which is quite similar to what's going on with the MMR vaccine I think. First of all, the sugar beets, sugar beets produce a protein and non-coding amino acid called Aze. This amino acid is an amino acid analog of proline.

It's just like glyphosate being amino acid analog of glycine. It's the same thing but it's proline instead. Researchers have found that people who live near sugar beet fields where there's lots of sugar beets being grown in that area have a significant increased risk to MS, multiple sclerosis. In Japan, in Europe, in the United States and Canada, all those places there's an increased risk to multiple sclerosis.

The hypothesis is that it's because these Aze gets into the proteins just like glyphosate does and prevents them from being broken down and ends up with an immune reaction to the proteins and then by analogy then an autoimmune reaction to proteins in the brain and furthermore that the brain itself has essential proteins that get disrupted when their proline is displaced by Aze. That also makes it difficult to break them down.

So it's exactly the same story as goes on with glyphosate. Then what's really amazing is that there's a couple of microbes, acinetobacter and pseudomonas aeruginosa, those two microbes are on the very short list of microbes that can metabolize glyphosate, fully metabolize it. They can break the C-P bond. The C-P bond is very difficult to break in general but those microbes can do it. Acinetobacter hangs out in the nose, a patient with a runny nose, making it a problem in the hospitals because it's got multiple antibiotic resistance. Both of them will help you out by clearing your glyphosate.

But the problem is that when they take in the glyphosate, they can get it into their proteins, if we're right. In fact, multiple sclerosis is linked to an autoimmune reaction, again, the myelin basic protein gets attacked – just like the first story with autism MMR – myelin basic protein gets attacked because it has a peptide sequence that resembles a peptide sequence in acinetobacter or in pseudomonas.

So they actually showed in this paper, they had three different peptide sequences from the

microbes and three corresponding peptide sequence from the proteins that show up in the myelin sheath and every one of those sequences they were short. They had maybe eight or nine amino acids and every one of them had glycine in it.

So that's how you can do the same thing. You can get the glycine into the protein that's produced by the acinetobacter who's taking up the glyphosate and digesting so that the acinetobacter can metabolize glyphosate and in metabolizing it gets exposed to it. So some of it ends up in its proteins so if the glyphosate is there instead of the glycine then you have a protein that can't break down. Then you get the multiple sclerosis because of the mimicry. It's pretty amazing stuff.

Ty: That's pretty amazing. The synergistic effect of these different toxins is pretty amazing. I've not heard it explained that way but thanks for sharing that today Stephanie, really fascinating. I think it's going to be neat addition to the documentary that we're doing on vaccines, to get that bit of information there.

Dr. Seneff: I think it's quite different from what most people are going to tell you. It's new information. I don't know that it's right but I feel that it is. I feel that there's a lot of evidence to support it.

Ty: Well, Stephanie, thank you so much. I appreciate the interview today.

Dr. Seneff: Great.

[End of transcript]