

## ecoNugenics: Pectasol & Galectin-3

Dr. Isaac Eliaz:

Pectasol addresses a protein called galectin-3. Galectin-3 is a carbohydrate, a sugar-binding protein. So it has an end terminal, a lot of amino acid, which are a proline-glycine-alanine repeat motif and that it has this thing called carbohydrate recognition domain. And here is where it binds to different ligands, different molecules that contains sugar within them. So oligosaccharides, glycoproteins, glycolipids, and these ligands will drive our survival response.

So what do I mean? We are all built to survive innately as a community, as a person, our organs, all the way to the cellular level. And this survival, it is built within us, is automated through the nervous system, through the autonomic nervous system by creating a sympathetic fight or flight. Fight, which creates inflammation in the cytokine storm we're all aware of with the grave consequences. And flight, which makes us run away and hide, creating fibrosis and organ dysfunction. So this is why it's a paradox. And this is driven by galectin-3.

Galectin-3 senses crisis, emotional, physiological, toxins, pesticides, heavy metals, traumas, genetic, epigenetic. It picks up the necessary ligands to address the injury and the response of the body. Let's remember, it's inflammation. It's overproduction of immune response. It gets activated, and it produces a lattice formation. It produces a pentamer and then one pentamer binds to another and you create a lattice formation, a coating, a biofilm in the gut and atherosclerotic plaque, a microenvironment around a cancer cell where the metabolism changes become acidotic, there's no oxygen coming, and that's where you get your damage. If it's diabetes, if it's cancer, if it's autoimmunity, it's driven by similar way.

The PectaSol, the Modified Citrus Pectin, comes with the galectin-3. It dislodges the ligand and breaks down this nasty lattice formation, allowing the body to heal itself, allowing oxygen to come to the tissue. Cutting is the ongoing microenvironment, which perpetuate inflammation, allowing immunotherapy to respond, for example, in cancer, et cetera, et cetera.