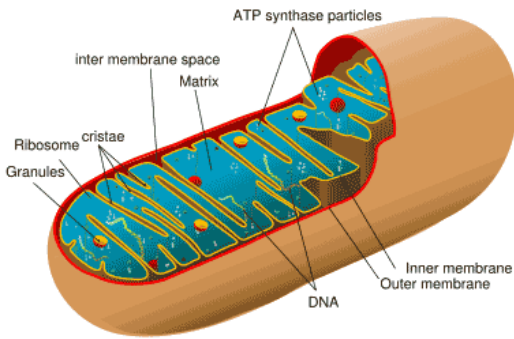


Ever wonder why some patients plateau out after initial improvements? Or why it seems so hard to restore hormone and energy levels to the point where inflammation or stubborn abdominal fat can be eliminated? Since the 90's, I kept finding positive ion poisoning (PIP) as the core issue in these cases. For years, everything I tried failed to remove PIP which diminished the greater splanchnic nerve/cealic plexus (especially T-8) and generated inflammation that locked infections deep in the abdominal viscera causing maldigestion. Now, a novel solution of fermented marine lipids and substrates is available to lower gut inflammation, allowing trapped PIP and infections to be released with resultant spinal alignment. Later we discovered that these polar lipids could activate the genetic expression of a protein that boosted stem cells needed to regenerate the stress-damaged GI tract. Now, for the first time, you will learn about how to nourish and restore innate immune functions and rid the body of PIP and stubborn biofilms... so regeneration doesn't get sidetracked.

## Is Positive Ionic Poisoning a Missing Link in Your Practice?



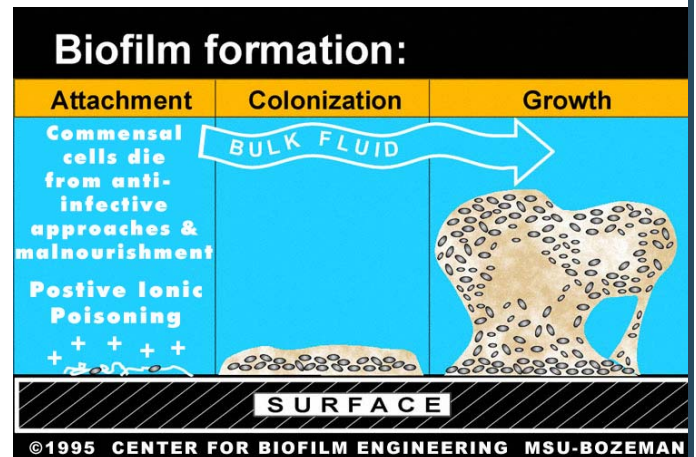
**Positive Ion Poisoning (PIP)**, as termed by Albert Krueger, MD (the late UC Berkeley researcher), is a toxic condition caused by toxicants with a positive ionic charge. Systemic ionization disrupts the mitochondrion electron transport chain (ETC), causing free radical pathology (oxidative stress), extreme chaos in the nervous system (T-5 to T-8) causing chronic fatigue and prolonged gut inflammation which underlie a wide spectrum of diseases. Sadly, nobody diagnoses PIP or has a solution for it. In fact, most "natural-alternative" therapies actually make it worse!

Environmental "man-made" chemicals including synthetic USP vitamins and amino-acid chelates, and colloidal minerals have a **toxic positive ionic charge**. These positive ionic molecules attach like a magnet to metal to tissues and organs of the body, causing non-stop inflammation and chronic immune dysfunction that leads to cancer, fibromyalgia, insomnia, anxiety, brain fog and depression. PIP is also a core issue behind obesity (excess abdominal fat), diabetes and treatment-resistant disorders like Multiple Chemical Sensitivity (MCS), Lupus and fibromyalgia. Even mold (mycotoxin) can cause PIP when it is irradiated with electron beaming that is commonly done on most commercial and organic grains and produce.

When toxins carry a positive charge, they cannot be removed from the body with current methods of detoxification, including oral and IV chelation, ionic foot baths, infrared saunas, etc. Because PIP has unstable electrons that cling to artery walls and cells, it causes heart disease and brain disorders like Alzheimer's and Parkinson's disease.

Since PIP underlies all stubborn BIOFILM infections involved in otitis or cavitations, chronic gastro-duodenitis that blocks excretion-secretion channels, pelvic floor disorders, stubborn and persistent UTI's and other disorders, it must be addressed to stop BIOFILMS from forming in the first place. PIP kills commensals and induces the mucosal inflammation that initiates BIOFILMS while inducing ANS imbalances and adrenal deficits as the celiac plexus is the primary nerve supply for the adrenals.

Aiming treatment solely at a BIOFILM is not enough. Since BIFILMS also originate from antibiotics or natural anti-infective treatments, we must refrain from using anti-infectives that kill off beneficial commensal cells making BIOFILMS more dangerous to the organism (*Nature* 2003. 424:134; *J Bacteriol* 1994. 176:269-75; *Annu Rev Genet* 2001. 35:439-68; *FEMS Microbiol Rev* 2001 25:365-404; *Annu Rev Microbiol* 1995 49:711-45; *Science* 1999 284:1318-22). As I explained in the last newsletter, certain probiotic ferments in exactly the right



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combination can be an Achilles' heel or a fragile target for knocking out stubborn BIOFILMS. It was over a decade ago that I alerted practitioners of PIP and BIOFILMS that scientists now believe underlies many diseases (*American Chiropractic*, July 2004; *J Clin Invest.* 112(9): 1288-90, 2003). Drug-resistant micro-organisms can ONLY be conquered by using the innate powers of the immune system as a therapeutic agent. When an army of native human commensal cells are behind the innate immune system, it has no trouble conquering any microbial foes. Remember, it only takes one treatment with an antibiotic or an anti-infective (colloidal silver, oregano oil, propolis, allicin from garlic, etc) to kill off commensal cells. Thus, if we want the innate immune system to be fully operational in its inherent complexity and power, we must address inflammation, PIP and commensal cell deficits.

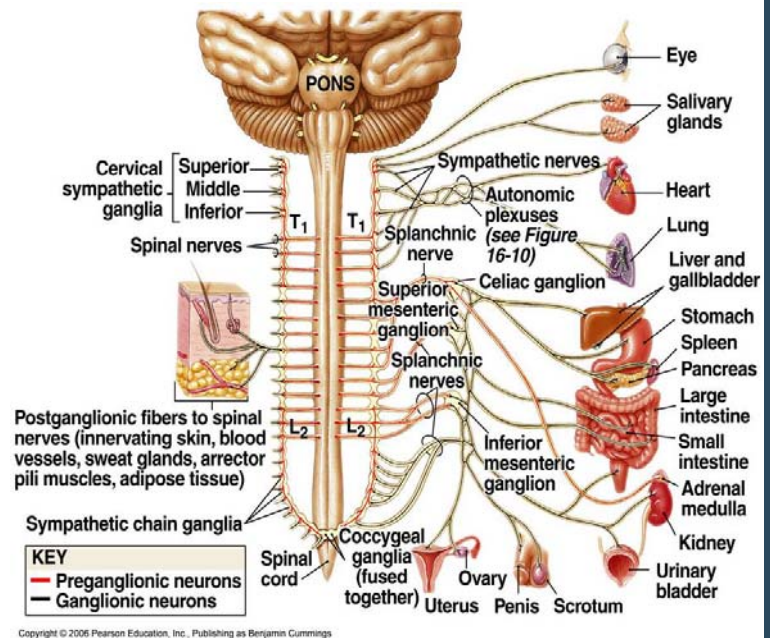
One has to be naïve to believe that man-made treatments can outperform the power and flexibility of the immune system and its abundance of compounds and molecular strategies used to combat maladies ranging from pneumonia to cystic fibrosis and arthritis. Evidence of an active dialogue between members of the commensal microflora and the host mucosal immune system is rapidly unfolding. This crosstalk affects immunological tolerance and homeostasis within the gut (*Trends in Immunology* 2005, 26:6; *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis*, Volume 622, Issues 1-2, 1 Sept 2007, 58-69). Researchers from the Rowett Research Institute in Scotland stated "Early microbial exposure of the gut is thought to dramatically reduce the incidence of inflammatory, autoimmune and atopic diseases further fuelling the scientific viewpoint, that microbial colonization plays an important role in regulating and fine-tuning the immune system throughout life. Recent molecular diversity studies have provided additional evidence that the human gut microbiota is compositionally altered in individuals suffering from inflammatory bowel disorders, suggesting that specific bacterial species are important to maintaining immunological balance and health." Other researchers note that we need 100 trillion commensals cells to be healthy (*Cell*, 124:4, 2006). There are two reasons why BIOFILMS persist for decades:

1. Overuse and misuse of antibiotics, anti-infectives or anti-fungal herbs that deplete human commensal microflora, allowing infections to generate inflammation-inducing endotoxins and viral replication. Inflammation also locks infection deep into organs and is undetectable by EAV, kinesiological or bioenergetic scan or methodologies.
2. PIP or the storage of ionic toxins that induce endless inflammation, leaving the immune system too exhausted to win the battle against BIOFILMS. As long as PIP is present, many immune battles against harmful pathogens will be lost. PIP wipes out commensals and will not allow them to find a permanent home in the gut, allowing the tremendous diversity and mutability of pathogens to intelligently overpower the innate immune system.

Widespread food irradiation practices, irradiated pesticides, and plastics make ionic toxins stronger, causing alarming increases in respiratory and allergic disorders. Today every breath we take is loaded with ionic toxins that put tremendous stress on the body, stretching the limits of human adaptability to the point where serious liver, neurological and brain damage can occur. Even body care and everyday cleaning products cause PIP and are loaded with hormone disruptors (xenoestrogens) and powerful carcinogens (cancer inducers) that diminish digestive and detoxification functions dramatically.

### PIP Detoxification to counter GI Inflammation & Restore Immune Reciprocity

PIP causes chronic thoracic subluxations (T-5 to T-8) which inhibit digestion, detoxification and adrenal function. The result: hormonal imbalances that fuel excessive abdominal fat or that induce and promote inflammation (*American*



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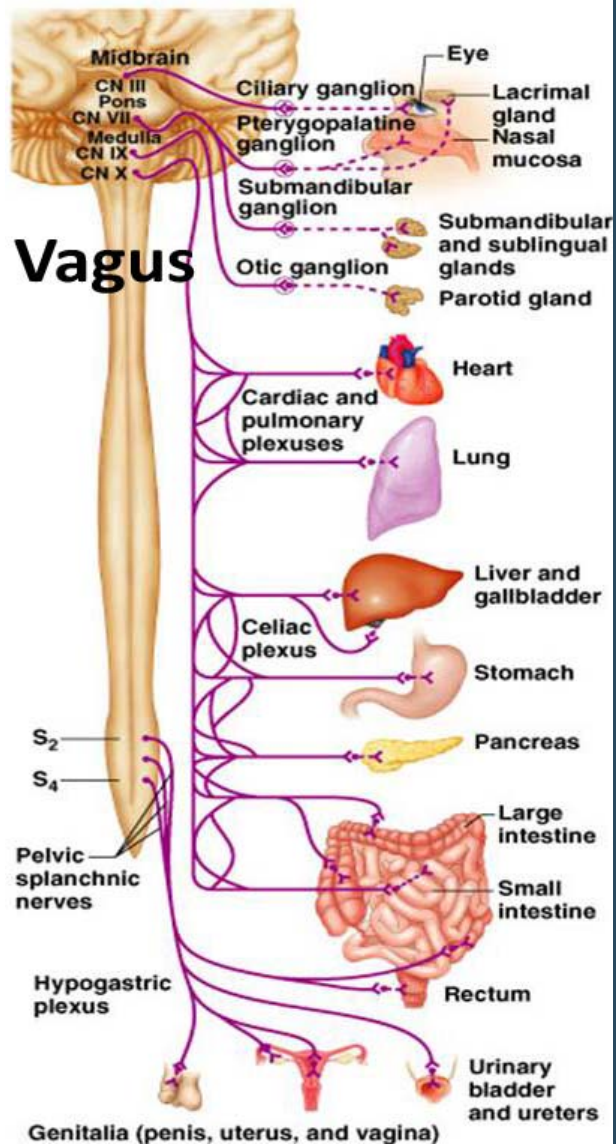
Chiropractic, July 2004). PIP also chokes off innate immunological weaponry by polarizing and inhibiting lymph drainage, circulation and hardening the lymph nodes. Presently there is no anti-infective treatment able to effectively penetrate BIOFILMS and stop them from mutating and spreading throughout the body. It seems that the more we treat infection, the stronger and more resilient BIOFILMS become.

My clinical studies on novel detoxification methods and restoring the full operational complexity and reciprocity of the immune system start in 1999. The immune system only fails to combat overlooked, hidden, or treatment-resistant BIOFILM infections, when it is disabled by PIP-generated inflammation and commensal cell deficits (Townsend Letter for Doctors 1999 (June) 52-4; Townsend Letter for Doctors. 2001 (July) 93-95; Townsend Letter for Doctors, Jan 2001, 55-58; Townsend Letter for Doctors, 2002 154-6; Townsend Letter for Doctors, 2001, 45-8; Townsend Letter for Doctors. 2003 (Jan) 128-30; Townsend Letter for Doctors. May 2004; Townsend Letter for Doctors. 2002 (Nov) 52-5; Townsend Letter for Doctors 1994, 568-70; Townsend Letter for Doctors, 2004). Sophisticated tools of microbiology confirm unequivocally that BIOFILMS are both present and metabolically active, even when bacteria cultures are negative. Their anti-microbial resistance coupled with the inaccuracy of current lab tests to diagnose hidden BIOFILMS and intracellular infections makes them the greatest clinical challenge facing doctors today (Mol Immunol 2002;38:947-57; Annu Rev Microbiol 2000;54:49-79; J Clin Microbiol 2001;39:3234-40; J Med Microbiol 2002;51:344-9; Nature 408284, 2000; Science 284 1999:1318-22; J Clin Invest 112:1466-77, 2003; Annu Rev Microbiol 2002; 56:187-209; Appl Environ Microbiol 67:5608-13).

Clinicians have struggled for years against the evasiveness of BIOFILM infections, which always include yeast, fungal and pathogenic parasites, and bacteria. Unrestrained, these infections can secrete endotoxins at a lethal level. Only commensal cells have the genes necessary to block the acute lethal effect of biofilms, which can provoke the formation of scar tissue damage to organs, as observed in many diseases. A lack of commensal cells can "blind" and disable the immune system so it has no power against cancer or other infections. When this happens, biofilm infections can put on a cloak of invisibility as they develop thick mucus-type armor against immune attacks.

How cells detoxify or clean house depends on nourishment from marine ferments and polar lipids carrying quantic harmonic polarities. A shortage of nutrients can prolong the life of a cancer cell causing it to breakdown its own macromolecules for food and spread uncontrollably. When cells cannot cleanse themselves effectively, mitochondria can get damaged and flood the cell with 10 times the usual release of reactive oxygen species, thereby accelerating carcinogenesis and damaging neurons. Since PIP is insidious and ubiquitous in today's toxic environment and is a major barrier to the proliferation of commensals cells, finding effective clinical ways to detoxify PIPs and activate the essential housekeeping functions of cells may minimize uncontrolled cell division and tumor formation which happens with cell toxicity and oxidative stress.

Deferral of normal and natural innate immune reciprocity can induce an ever-widening, self-propagating wave of tissue destruction and degeneration that underlies carcinogenesis. On the other hand, restoring healthy and powerful immune responses via commensal cells can maintain optimal rebalancing of reciprocal TH-1/TH-2 responses and give the innate immune system its best shot at conquering cancer and quelling the fires of inflammation that underlie degenerative diseases. Rather than use fragmented, single nutrient or anti-infective approaches, may we address the aberrant core physiological issues underlying carcinogenesis, demonstrating that we truly respect the body's inner physician. Following nature's recipes for nourishment and detoxification will yield positive patient outcomes.



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## Nourishing the Body's Biological Machinery for Regeneration

Scientists are now beginning to understand how a salamander can regrow a limb or how a flatworm can be cut into more than 250 pieces and each one will grow into a complete worm. To varying degrees these amazing regenerative feats involve the "turning on" of the *Msx1* gene. And, fermented marine substrates like those in [RegenaFood-X™](#) allow this gene to make *Msx-1* protein, known to be the most powerful booster of regenerating stem cells. While more research is needed to confirm these powerful regeneration effects, we are slowly closing the gap to provide you with the ultimate in anti-aging and regenerative nourishment.

The fact that marine life is rich in zero-point energy (*where all frequencies become one*) at a high negative ion potential explains why it can remove PIP-generated inflammation so fast. More than 5000 scientific research papers support the concept that high doses of negative ions have positive effect while opposite is true with exposure to high amounts of positive ions. Dr. Howard from the *Center for Applied Cognitive Sciences* in Charlotte, North Carolina indicates that negative ions increase the flow of oxygen to the brain; resulting in higher alertness, decreased drowsiness, and more mental energy ([Journal of Alternative & Comparative Medicine. 1995 Columbia Presbyterian Medical Center](#)).

The healthy immune system in concert with the teamwork of commensal cells (90-95% of the cells in the body) can unleash its magnificent and diverse arsenal of antimicrobial agents to conquer BIOFILMS. Clinically, this process is done in layers with an appropriate commensal-probiotic blend that I have researched and developed ([QuantaBiotica™](#)) as explained in the previous newsletter. My research and unique methods of food fermentation resulted in a blend of "Polar Lipids" that are not to be confused with common EFA-Omega or phospholipid products as they are only in non-polar formats that destabilize the cell membranes of neurons and weaken the vagus nerve, allowing inflammation to skyrocket. We use 200:1 full spectrum EFA's, tocopherols, tocotrienols, phospholipids that are fermented with marine food substrates and polycosinol to help normalize blood lipids ([Physiol Behav 1999;67\(1\):1-7](#); [Int J Tissue React 1999;21\(3\):85-92](#); [Int J Clin Pharmacol Ther 1996;34\(3\):134-7](#); [Int J Clin Pharmacol Res 1995;15\(4\):159-65](#); [Rev Med Chil 1999;127\(3\):286-94](#)). It is the ultimate anti-aging product as it can nourish and fortify regenerative processes in the body by "turning on" of the *Msx1* gene and taming the fires of inflammation.\*\*

Why do we need polar and non-oxidized lipids or EFAs? Lipid degradation (oxidation) in the bottling or encapsulation of oils causes a loss of native polar lipids. When polar lipids are depleted, we cannot:

1. Minimize inflammation that is locking infections or PIP deep into the organs and bones.\*\*
2. Get lipids into cells or allow them to bind to cell receptors. The result: cell nourishment is diminished. And with the common use of non-polar lipids (found in all bottled oils and encapsulated fish and seed oils) toxic compounds of different molecular weight and polarities are formed ([Trends in Food Sci. Technol 1993, 4: 220-25](#); [J. Sci.Food Agric 2000, 80: 1925-41](#)) which has been proven to cause death and liver failure in experimental animals ([J Oleo Science 2008 57: 3:153-60](#)).

**SUMMARY:** In studying living cells with new powerful imaging techniques, scientists are observing fascinating and hidden processes of cellular life that were once impossible to observe or understand. Previously, the only way to observe the inner workings of cells was to kill them, and this has led to all sorts of erroneous conclusions about how cells get nourished and cleanse themselves. But, now as advanced microscopes and sophisticated lab tests see the living cell in action to see how a hormone binds to a receptor or how living nutrients enter a cell and detoxify it, we can expect to see more evidence in the directions of aiming our clinical efforts at NOURISHING living human and commensal cells and RESTORING optimal and healthy TH-1/TH-2 cytokine responses by stabilizing the cell membranes of neurons (vagus) to conquer inflammation naturally.

