



## Organic Chemistry 101

In this article I will get into the value of minerals specifically the nitrogen cycle, magnesium usage. Then in articles listed below, and other articles, expand into sodium (Na)/calcium (Ca) pump and how each works in soils, plants and ultimately the value of natural salt and enzymes for our bodies.

I hear time and time again that our soils are deficient and therefore, it is said the plants we eat are deficient in different minerals. This is not entirely the case! Let me explain. The first point is to understand that our current agricultural and medical systems are working with 18<sup>th</sup> century chemistry and I would stretch it to say some 19<sup>th</sup> century logic. In this paradigm it is contradictory in itself. This system first states “Nothing is created nor destroyed” and works on the Second Law of Thermodynamics or what is sometimes called entropy. Entropy is the disorganized state everything becomes with time. For example your house or car does not clean itself nor does it improve with age. But ask yourself if “Nothing is created nor destroyed” how can we have a deficiency? Evidently, we must be able to follow the cycles where these minerals have moved, changed or become unavailable to explain replenishing of these “deficient” minerals. Explanations to this phenomena are wide and varied and are based solely on what I refer to as translocation of minerals. In this argument minerals are washed from the soil, distributed onto the soil or consumed or immobilized by the vegetation. Certainly, these minerals incorporated by plants or micro and macro organisms, should be referred to as being transformed nutrients or nutrients that have been removed from the access to other life forms, but this does not make the soil deficient. These are never lost they are part of a sophisticated cycle. One which is simple but totally misunderstood or misdirected and contradictory within the agriculture industry.

Nitrogen fertilizers are continually added to the soils but never do the fertilizer companies look at the natural translocation of nitrogen and carbon cycles from the air nor do they consider the hidden nitrogen content in the soil organic matter let alone the mineralization that comes from microbial activity. The main nitrogen source is in the air we breathe, it is moved naturally into the soil by the work of nitrogen fixing bacteria and is then incorporated transformed into organic matter. When an organism dies this nitrogen passes back to the soil in various nitrogen forms as the organic matter decomposes and thus, maybe assimilated back into another live organic form or released back into the air. Let me emphasize, “There are no deficiencies.”, but rather imbalances of where or what form nutrients, such as nitrogen, is at any one time. Understanding these cycles has led to the organic cultivation practices that our society is moving towards. Now you may at this point say that I may not be using the word “deficiency” but I am saying the same thing, let me continue.

The two main points that people seem to overlook are first we are not in the 19<sup>th</sup> century and second very few, if any, people talk about the natural formation of soil or pedogenesis let alone transformations, translocations, transmutations or mineral uptake of plants.

A well know scientist of the 20<sup>th</sup> century brought in theories that rocked the world, his name was Albert Einstein. Einstein’s Theory of Relativity kicked started the nuclear age and quantum mechanics. His statement “Nothing can be created nor destroyed but can be changed” indeed changed our view of the natural world around us and how elements could be transmuted or changed. Another individual, by the name of Louis Kervran, started changing the views on how we view living organisms and how all organisms perform cold fusion or biological transmutations. This is part of what I refer to as Beyond Organics of Breakthru Technology. I will get into this in more detail in another article with the Na/Ca pump and how there is no “deficiencies” but rather the changing of elements within biological organisms.



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With the second point, most people, including professional agronomists, do not understand or do not admit to the formation and the release of minerals due to soil pedogenesis nor fully understand the mechanisms how minerals are utilized. Let alone the mechanism of mineral uptake of organisms.

I will refer initially to the experimentation of Justus von Liebig, sometimes accredited as the father of the fertilization industry. One experiment von Liebig conducted was that of the growth of a tree, in a specific amount of soil, in a closed container. The object of the experiment was to determine the amount of nutrients derived from the soil. The experiment went for a period of five years and the initial weight of the dried soil was calculated at three hundred pounds. A tree seed was germinated and transplanted into the pot containing the soil. At the end of the experiment von Liebig removed the tree, dried, then cleaned the soil off the roots and weighed the components. Soil weight had changed to two hundred and ninety-nine and one half pounds however, the tree weight was well over one thousand pounds. Water weight was calculated at approximately fifty percent of the weight of the tree leaving approximately five hundred lbs of tree mass. The one half a pound of soil weight difference was noted but first was written off as experimental error. The approximately five hundred lbs of tree mass at first could not be explained. However, once von Liebig incinerated the tree he found there was exactly the one half a pound of ash! The other four hundred and ninety-nine and one half pounds had translocated from the air. This being carbon, nitrogen, oxygen and hydrogen. Fire, an exothermic chemical reaction, released carbon, nitrogen, oxygen and hydrogen back into the air leaving just the mineral content from the soil. Thus answering the question, how much nutrients does a plant remove from the soil? Having the first question answered raised the second question, how did a natural translocation of nitrogen and carbon from the air to the plant occur?

A new agriculture revolution was started when it was discovered that when planting legume crops it increased soil fertility, but again, what was the mechanism? By the 1930's scientists discovered that microorganisms called rhizobium would form a symbiotic relationship with legumes. These plants are mini nitrogen fixation factories that sequestered nitrogen from the air and transfer nitrogen to the plant through the symbiotic relationship. Further study showed that there were also free living nitrogen fixators and that through the process of decomposition microbes could release nitrogen components back into the soil for reuse. This soil organic nitrogen is NEVER calculated into laboratory soil analyzes!

### Magnesium

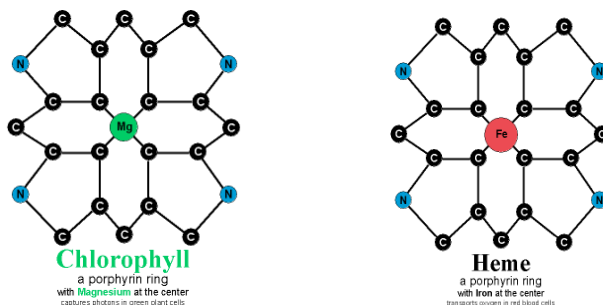
Natural magnesium is the most under-appreciated mineral in a body or plant cellular health. In the body, it soothes the nervous system, providing deeper rest, and keeps the muscles from going into spasms. It fires up the repair mechanism or periods of rest allowing one to sleep well and stay calm, and avoid anxiety. Insufficiency activates rather than calm the nervous system. It is essential for the production of amino acids that are critical for virtually every chemical reaction in the body. Restore vital magnesium and it enables cellular regeneration to exceed degeneration. Health officials say there is a documented epidemic of magnesium deficiency in the world, and the medical industry deals with it using drugs instead of understanding the manufacturing or assimilation mechanisms. Again, the verdict drawn is that food is grown on deficient soils which no longer contains sufficient magnesium to sustain one's healthy state. Their explanation that



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soils have been seriously depleted of magnesium is really a misunderstanding of the Eco-system symbiotics or transmutation of elements.

LOOK AT THE DIFFERENCES IN Hemoglobin and Chlorophyll.



Could eating high amounts of live plants with enzymes and chlorophyll also assist a body to increase hemoglobin and magnesium? Can animals transmute magnesium to iron? Or can both molecules also absorb electrons, transmute elements and be used to capture electron energy?

Current industrial agriculture practices do nothing more than compound problems with their chemical soup that interrupts the Eco-system. Many diseases are related to insufficient magnesium absorption and production.

Some symptoms are:

- road rage (instability, quick to anger);
- restless leg syndrome (twitchy nervous behaviors);
- high blood pressure;
- arthritis;
- diabetes;
- tooth cavities;
- sleep disorders;
- cramps;
- migraines;
- panic attacks;
- depression.

This is NOT the complete list! Have you seen any of this around you lately?

When one restores vital magnesium to the body, it enables cellular regeneration to exceed degeneration. That means you can reverse the symptoms, even if they are labeled, "There is no cure for.....".

### Magnesium Supplementation or Manufacture?

Consuming magnesium supplements alone does not work. Advertisements about oral magnesium supplements may lead one to believe that regular oral supplementation will fix a deficiency. Unfortunately, this isn't the case. Taking excess oral magnesium supplements only cause a bowel



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flush, since a body cannot absorb it, nor pass it to cells. Actually, both magnesium and calcium absorption have been scientifically verified to diminish exponentially after puberty.

So how do we get sufficient magnesium and calcium?

- First recognizing food sources have inadequate amounts because the natural elemental transmutations in our soils have been blocked.
- Secondly, recognizing foods that have lower amounts of the correct organic ionic form of these minerals.
- Thirdly, realizing transmutations of sodium to magnesium or calcium must be initiated by ingesting live foods.
- Fourthly, accepting that the industrial farming practices in essence lead to poor nutrition and insufficient enzymes, in the standard diet requiring a change in agriculture and eating habits.
- Fifthly, acting to change a diet so the many metabolic functions restart reversing the many syndromes or so called diseases.

Our food today contains only about thirty percent of the minerals it did one hundred years ago. Why? Again, from individuals ignoring agronomic reality or being profit driven and excluding the free life giving forces of living food enzymes, or mechanisms to initiate transmutations. In other words concentrating on quantity rather than quality.

### Effects of Magnesium Imbalance

Eighty percent, or more, of our population are low in magnesium, including many who take supplements regularly. Many debilitating and life threatening diseases as mentioned above are associated with magnesium deficiencies.

### Solutions:

Through your skin! One effective increase of magnesium can be done through your skin, your body's largest organ. Bathing in solutions high in magnesium and other minerals is a relaxing, convenient and is a cost effective way help balance magnesium and other elements in the body or the applying of Breakthru Technology's Mineral X-Factor. A natural osmotic balance occurs that is both relaxing and rejuvenating. There are many different bath salts and of course the many different natural health springs that are documented to have healing and regenerative results. However, it must be noted that rejuvenation is not seen with intermittent or one time usage. Continued usage with sometimes daily or weekly exposure to highly mineralized solutions are necessary. Other concentrated effects are seen with magnesium/mineral gels or magnesium/mineral oils delivered through your skin with energized water.

Applying either Magnesium Oil or Magnesium Gel onto any area of concern, as often as desired, to enhance your well-being. Magnesium Oil is also a magnificent dental aid. It can whiten your smile by rebuilding the mineral levels in your teeth.



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### **Better Yet Through Your Diet:**

#### **The Magnesium/Calcium Riddle.**

The ratio between magnesium and calcium is very important, when dealing with the cause and prevention of the many disorders discussed.

The metabolism of magnesium's role in the sodium/calcium pump depends upon, genetics of an individual, blood type, sex, age and diet within the current living environment. Therefore, to balance one's diet these factors must be examined with how metabolic enzymes play the especially natural balancing roles. Hence, the usage of BarleyGold or Nature's Gold Mix. Breakthru Technology's view of the dynamic benefits in the balancing of the Eco-system soils and plants augments the Super Dense Nutritional value of the Breakthru foods. Certainly, past diet needs to be revised and one needs to understand and act on the Eicosanoid Metabolism messages. The ideal ratio for most people's needs are balanced amounts of these metabolites for calcium and magnesium production. If specific calcium ions foods are consumed, then specific magnesium ion intake may also need to be adjusted.

#### **The problem for adult milk drinkers.**

Calcium and magnesium depend on each other to be metabolically active, therefore, they need to be balanced and in the correct ionic form for specific animals. For example calcium has four different ions and magnesium has two different ions, which ones do the average human need and in what amounts? Most milk and milk products that are currently being consumed are from cows, not produced from the humans or equal sized animals and the elemental ions are incorrect. Though humans and cows both are mammals, cow's milk is designed for a much larger animal. When excess is consumed by humans, of any age, digestion is naturally difficult and problems begin to occur.

The second question to arise is when do mammals no longer need milk in their diet? It has been verified scientifically that magnesium and calcium absorption diminishes exponentially after puberty. In fact after puberty no mammals, other than humans consume milk! Essentially, high incorrect calcium/magnesium ion ratios from the wrong mammal cause a magnesium imbalance, creating ill health. Magnesium regulates the entrance and utilization of calcium in the cells. Without magnesium, calcium remains in the body unused or the incorrect ion is treated as a toxin. This results in calcium deposits in the joints, aggravating arthritis, gallstones, kidney stones, and in extreme cases calcification of the brain and other body organs. This, in turn, results in loss of memory and loss of ability to reason and eventually the termination of life. All of these conditions have frequently been known to disappear after starting a balanced diet of fruits, vegetables and reducing milk and milk products. Both actions helping to balance the metabolic enzymes.

Again, magnesium and calcium ions must be in the correct proportions along with correcting individual factors in the Biological Terrain of an individual, otherwise the calcium becomes a pollutant in your body! More in depth reading is found in Biological Transmutations by Louis Kervran or the article on Animal and Human Health and How it Relates to Soil by Ken Campbell.

**So, why not reverse aging with metabolic enzymes and diet with Beyond Organic Breakthru Technology foods and minerals?**