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“The Most Wonderful Plant in the World” - Charles Darwin

In 1973, world renowned pioneer oncologist Dr. Helmut Keller took Darwin's advice. Almost three decades later following extensive research and clinical study he could not have known the far reaching implications of Darwin's pet plant ---- a plant that contains substances that could actually digest harmful primitive cells and many other pathogenic forms in the human body, and those of animals. But Dr. Keller and thousands around the world would discover that there was much more to this truly remarkable plant, a miracle of nature ---- and the source of Carnivora.

What is Carnivora?

Carnivora is a patented phytonutrient extract of the venus flytrap plant. It is non-toxic and contains properties that are immunomodulatory, anti-viral, antitumoral, antiparasitic, antimicrobial & antibacterial. Additionally Carnivora enhances the action of natural antibiotics due to its effect on antibiotic-resistant bacteria. From this most unique plant comes an array of constituents with diverse properties that have been shown in extensive research and clinical study to assist in the prevention of illness and disease as well as battle even the most deadly diseases for almost thirty years;

\*Droserone - Natural antibiotic, natural cough suppressant

\*Hydroplumbagin - One of the main compounds unique to the plant, hydroplumbagin (H) is responsible for immune modulation and stimulation.

Know Your Immune System—It's the Only One You Have. Immune modulation and enhancement occurs when there's an increase in the production of macrophages, a form of white blood cell that literally “swallows” germs and foreign substances. The macrophage then releases a deadly enzyme that damages the chemical composition of the ingested cell destroying or neutralizing it. They are the hunters of the immune system ingesting and killing any prey that get in their way. This process by which a foreign substance or other cell material is recognized, ingested and often digested is called phagocytosis. H increases and stimulates lymphocyte production, T cells & B cells. If macrophages are the hunters, lymphocytes are the captains of the white blood cell population and represent almost 50% of the total blood count. They increase in number during viral infection and when a person is fighting a disease such as cancer. T cells, comprising approximately 80% of the lymphocyte population destroy specific invaders known as antigens, and infections. B cells produce antibodies, proteins of the immune system that destroy invaders such as antigens.

In addition to increasing macrophage and lymphocyte production, H is also responsible for “modulating” the immune system by increasing and stimulating Helper T - cells. These cells secrete immune proteins to stimulate B cells and macrophages, while activating Killer T cells. In turn, Killer T cells attach themselves to a specific invader and

secrete enzymes destroying them. When infections and/or disease are present, the immune system will often work in “overdrive” creating a dysfunctional condition causing a reduction in T-suppressor cells, often referred to as the “bodyguard” of the immune system. If your bodyguard is wounded, his army of T-suppressors are facing defeat. Wounded T-suppressors weaken the body’s ability to suppress antibody activity. Now your immune system is in overdrive, allowing an abnormal increase in the production of antibodies. The presence of antibodies won’t last long however, because of the presence of hydroplumbagin. H is going to help restore the proper ratio between T-helper and T-suppressor cells. How is this possible? First H will facilitate the production of antibodies by the B cells, and then increase the number of T-suppressor cells strengthening the body’s ability to suppress unnecessary antibody activity. This is known as “modulation,” and is critical if we are going to maintain a normal, healthy helper/suppressor ratio thereby creating a healthier immune system to protect against, help control and even eradicate disease.

Additionally, the use of H is associated with a distinct rise in the number of Natural Killer (NK) cells. This increase in NK cells is often referred to as an “enhancement” of the immune system. NK cells can recognize and quickly destroy virus and cancer cells on first contact. Their role is surveillance of the immune system --- armed with an estimated 100 different biochemical poisons used to destroy invaders before they grow or mutate into life-threatening disease. There is a direct correlation between low numbers of NK cells and the development and progression of chronic infectious disease, cancer and other deficiencies of the immune system.

\*Formic Acid: Natural Antiseptic

\*Quercetin: Natural bioflavonoid and major component of Carnivora. Quercetin (Q) is a nontoxic alternative to anti-inflammatory and allergy drugs. Its mechanism is stabilizing cells that produce allergic responses (mast cells) by preventing them from releasing histamine. Histamine is known to be responsible for causing the common symptoms of an allergic reaction. Q is anti-hepatotoxic. It plays an important role in the maintenance and support of healthy liver function. It is antisclerotic and is known to strengthen heart myofibrils and facilitate the dilation of coronary arteries. Additionally it is considered an antioxidant with chelating ability and acts as a natural diuretic. These ingredients have a specific pathway in the human body which contribute to the regulation of immune modulation and stimulation, support of the circulatory system and maximizing the efficiency of heart function.

\*Myricetin: Bioflavonoid. Identical properties and actions as Quercetin.

\*Gallic Acid Derivates: Aids in the emulsification of fat; immune stimulative; useful in degenerative and metabolic diseases.

## AMINO ACIDS

- \*Arginine: Supports NK cell function; improves immune responses to bacteria, viruses and tumor cells; promotes wound healing and regeneration of the liver; facilitates the release of growth hormones; considered crucial for optimal muscle growth and tissue repair; role in DNA stability.
- \*Asparagine: Aids in the expulsion of harmful ammonia from the body. When ammonia enters the circulatory system, it acts as a highly toxic substance which can be harmful to the central nervous system. Recent studies have shown that Asparagine increases resistance to fatigue and increases endurance.
- \*Threonine: An important component of collagen, elastin and enamel protein. Helps prevent fat build-up in the liver; helps the digestive and intestinal tracts function more efficiently; assists in metabolism and assimilation of nutrients; decreases cholesterol.
- \*Glutamine: Considered to be nature's "brain food" by improving mental capacities; helps speed the healing of ulcers, decrease fatigue, control alcoholism and craving for sugar; helps maintain white blood cell population and T-cell production; supports intestinal health.
- \*Alanine: An important source of energy for muscle tissue, the brain and central nervous system; strengthens the immune system by producing antibodies; aids in the metabolism of sugars and organic acids.
- \*Cysteine: Facilitates the production of glutathione which enable white blood cells (lymphocytes such as T cells, B cells and NK cells) to reproduce to make antibodies to destroy foreign substances in the body.
- \*Serine: Component of production of immune antibodies. Antibodies bind with antigens which are toxins, viruses, fungi, bacterium, etc. destroying them and removing them from the body.
- \*Histidine: Is found abundantly in hemoglobin. This amino acid had been used in the treatment of rheumatoid arthritis, allergic diseases, ulcers and anemia. A deficiency can cause poor hearing.

## PROTEASES:

Known for their ability to enhance immunity, proteases are considered an important line of defense in the immune system. Immune system disorders and intestinal toxicity are among the most common symptoms of protease deficiency.

## LIPOPOLYSACCHARIDES:

Small amounts present in Carnivora contribute to stimulation of the immune system; contains properties that are highly potent against bacteria.

## THE MULTI-DIMENSIONAL EFFECT OF CARNIVORA

Clinical and laboratory evidence from around the world have been supporting the efficacy and the use of this natural plant extract for almost 30 years. Its mechanism of action in the human body and in animals is multi-dimensional in scope. The presence of Carnivora in the bloodstream will modulate and enhance the immune system even in small quantities ---- a critical occurrence to aid in the prevention and control of immunodeficiency disease. Further, Carnivora is a broad spectrum agent against gram positive and gram negative microorganisms, bacteria, viruses, pathogenic fungi, protozoa and human pathogenic worms.

Due to the effect Carnivora has on the immune system, it is an effective treatment for chronic infectious diseases and infections caused by RNA viruses such as influenza, Lyme disease, hepatitis C, Crohn's disease, sexually transmitted diseases, candidiasis, chronic fatigue syndrome, lupus, ulcerative colitis, multiple sclerosis (early stage), psoriasis, chronic arthritis and other immuno-deficient and autoimmune diseases. It has been shown in extensive research and clinical data that the most common infections found in cases of chronic fatigue syndrome are yeast (*Candida albicans*) and parasites. Also found are hidden bacterial infections such as Lyme disease, chronic prostatitis, chronic sinusitis and chronic gastritis ---- all of which are the result of an impaired immune system under siege. To complement the effect it has on the immune system, Carnivora has been shown to effectively stimulate and increase the self-defense cells of the reticuloendothelial system, a system of cells derived from the bone marrow which are associated with the connective tissue framework of the liver, spleen, brain, lymph nodes and other fluid-based cavities.

We are consistently bombarded by a variety of factors that contribute to the erosion of our health in today's world. Environmental pollution, dietary choices, occupational chemicals, sun exposure, hereditary factors, electromagnetic smog, chronic stress and a sedentary lifestyle are among the most significant of these factors.

Today it is simply not enough to address a compromised immune system one-dimensionally. We must keep these important defense mechanisms functioning at their most effective levels with potent immune supplementation capable of deactivating invading microbes, viruses, parasites and other infectious toxins while helping to restore a ravaged immune system. At the same time we must strive to maintain good health by adopting a healthy lifestyle so that we can insure the proper maintenance or restoration of one of the most precious commodities we have: our health.

References available upon request