Investigations in Anti-Oxidants and Fatty Liver Expand the Health Benefits of a Universal Anti-Oxidant

A recently published study, investigating the role of a universal anti-oxidant "Lipoic Acid" and non-alcoholic fatty liver, states that supplementation of Lipoic Acid prevented the accumulation of hepatic (liver) triglycerides through stimulation of SIRT1 and SIRT3 genes. Nutri-Med Logic Corp adds that when taking into account the suggestions of this study, relating to the SIRT1, together with the landmark study by Dr. Sinclair, Professor of pathology at Harvard Medical School, Lipoic Acid activation of SIRT1 would also prolong cellular life, a proposed therapeutic target in Parkinson and Alzheimer’s.

Miami, FL (PRWEB) April 08, 2012 -- A recent study, published in Obesity (Sliver Spring), investigating the role of anti-oxidants in non-alcoholic fatty liver suggests that, in animal studies, supplementation of Lipoic Acid, a universal anti-oxidant, prevented the accumulation of liver triglyceride (~68.2%) through stimulation of mitochondrial (cellular energy plant) antioxidant defenses and that the Lipoic Acid treatment stimulated SIRT1 and SIRT3 genes. Nutri-Med Logic Corp, agreeing with this study, adds that stimulation of SIRT1 and SIRT3, in animal studies, has also been associated with prolonging cellular life, a proposed therapeutic target for the treatment of diseases such as Parkinson and Alzheimer’s.

While the studies and investigations in the beneficial role of Lipoic Acid and the treatment of chronic liver disease date back to 1970’s, this recent study is the first to suggest that supplementation of Lipoic Acid confers a beneficial role through up-regulation (stimulation) of SIRT1 and SIRT3, genes associated with prolonging cellular life.

Sirtuin (SIRT) genes are a family of genes that increase cell’s ability to resist stress and premature cell-death, through the production of a very potent cellular anti-oxidant molecule called Superoxide-Dismutase (SOD).

According to this recent study, Lipoic Acid supplementation increased the production of SOD (60.6%) in laboratory animals.

SOD neutralize the most damaging free radicals “superoxides” implicated in the per-mature death of neurons, seen in disease such as Alzheimer’s and Parkinson.

Dr. David Sinclair, a professor of Pathology at Harvard Medical School, in a study funded by National Institute on Aging, National Institutes of Health, found that SIRT1, the mammalian equivalent of Sir2, helped control gene activity and the results indicated that increasing SIRT1 activity could increase genomic stability, which would means longer cellular life.

Dr. Sinclair has proposes that mitochondria (cellular energy plant) survival would be nutrient-sensitive and nutrients such as resveratrol (found in red grape/wine) increases the levels of certain co-enzymes (NAD), which ultimately activates SIRT1.

This recent study also suggests that in animal studies another nutrient, Lipoic Acid, has achieved the same result: activation (stimulation) of SIRT1 and SIRT3, a remarkable finding that not only could confer beneficial role for non-alcohol fatty liver cases but also in the cases of diseases such as Alzheimer’s and Parkinson,
through expanding mitochondrial life.

While the application of Lipoic Acid and activation of SIRT1 in this recent study was conducted in animals, Alpha Lipoic Acid (Lipoic Acid) has been tested in large human clinical studies in the United States by Drs. Burton Berkson and Fredrick C. Bartter, Associates from the National Institutes of Health (NIH) in the 1970s.

Application of Alpha Lipoic Acid to 79 people with severe and acute liver damage, at various hospitals around the United States, resulted in full recovery of 75 out of 79 patients.

Dr. Berkson continued using Alpha Lipoic Acid, as a key component in therapies, to treat various cancers for which no other treatment exists (PubMed. Keyword: "liver, Berkson"). (1)

In conclusion, Nutri-Med Logic Corp, agreeing with this recent study, adds that this new finding relating to the stimulation of SIRT1 and SIRT3 by Lipoic Acid expands the potential role and health benefits of this universal anti-oxidant beyond the non-alcoholic fatty liver cases.

Nutri-Med Logic Corp is the producer of the Natural, Balanced, Deodorized, Concentrated & Pharmaceutical Grade Omega-3. Omega-3 is the most effective anti-inflammatory nutrient.

Nutri-Med Logic Corp is also a producer of dietary supplements such as a Pharmaceutical Grade R-Lipoic Acid (the natural type of Lipoic Acid), a universal anti-oxidant and the dietary supplement of choice for the Diabetics, in Germany for decades;

Producer of PolyEnylPhosphatidylCholine (PPC 425mg), an extract of soy, a pure and effective dietary source of choline and the recommended dietary supplement for those with Fatty Liver and Alcoholic Liver Disease, in Europe for decades.

Nutri-Med Logic Corp invites you to visit its News Archives and Review its News Releases on other potential benefits of Omega-3 and What Is Omega-3 Good For.

Nutri-Med Logic's products are Formulated Based on Nutritional Logic, made from the highest quality raw materials that are manufactured in pharmaceutical facilities, encapsulated in pharmaceutical facilities and packaged in pharmaceutical facilities.

It must be noted that the studies, sources or statements above have not been evaluated by The FDA and, thus, one should not relate the cause of any diseases, stated herein, to lack of the dietary supplements, stated herein, nor equate their supplementation to prevention, treatment or cure.

1. The application of Alpha Lipoic Acid was via IV application and Dr. Berkson was awarded the FDA investigational drug permit for the use of IV application of Alpha Lipoic Acid.
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