The hypothesis about the effectiveness of citric acid (citrate) as a cancer treatment was published since March, 2007 (1), and the demonstration of this hypothesis was published on May, 2009 (2).

I have already published 13 cases of patients with cancer who have improved impressively only with the citric acid treatment that they have received, including patients with medullary thyroid cancer (3) that is the same patient published on May, 2009 (2), patients with peritoneal mesothelioma (4) myeloid leukemia (5), Hürthle thyroid tumor (6), endocrine hepatic tumor (7), esophageal cancer (8), multiple myeloma (9), glioblastoma multiforme (10), pancreatic cancer (11) Non Hodgkin lymphoma (12), bladder cancer (13), breast cancer (14) and a patient with multiple myeloma remitted only in 10 days with the treatment of citric acid that she received (15).

It is already published in a medical article the indications of how to manage citric acid to be effective as a cancer treatment (16), and there is also scientific evidence of improvement of diabetes mellitus and multiple sclerosis with the treatment of citric acid received by patients (17).

These findings can be explained by the effect of citric acid in mitochondria that I described in the original theory of cancer, mitochondria, as an ancient bacteria, established a biological competition with the cell (1), and, citric acid (citrate) is the natural inhibitor of the mitochondrial enzyme pyruvate dehydrogenase, mitochondria get stabilized with the citric acid administered, and patients can get cured from cancer (16) and improve metabolically in general, improving Diabetes Mellitus, multiple sclerosis and other metabolic disorders (17) that may be of mitochondrial origin, as described in the original chapter published by Nova Publishers (18).

The patient with multiple myeloma described in reference number 9 also improved from rheumatoid arthritis, in movement, decreased pain and joint disinflammation after the treatment with citric acid that she received; and the other patient with multiple myeloma described in reference number 15 also improved from vitiligo present in face and hands after the treatment of citric acid that she also received based in the published protocol (16) for the diagnosis of multiple myeloma.

There is also the case of an adult male patient with ankylosing spondylitis that has improved in pain and movement after the therapy with citric acid orally that he received empirically, also based in the protocol for treatment of cancer with citric acid (16).

CONCLUSION:
These results, although only empirical, open up the possibility of treating diseases such as rheumatoid arthritis, vitiligo, ankylosing spondylitis and other autoimmune diseases with citric acid, because they may have the same mitochondrial origin (18), by its effect of stabilizing mitochondria and mitochondrial enzymes (1).