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The major activity of a research project that started with the solubilization of hormones, was extended to the attempt of finding a similar process for the solubilization of the whole tissue complex such as brain, liver, kidney, etc.

Our method which maintains the identity of the tissue is not to be confused with the hydrolytic acid or enzymatic process that reduces tissues or protein complexes to non-specific aminoacids. The end result of our method is an aqueous solution maintaining its identity as far as hormone, enzyme and protein contents are concerned, making them acceptable by injection in removing their anaphylactic and antigenic properties. These solutions were used largely in degenerative disease such as rheumatism, multiple sclerosis, neuro-degenerative disease etc., and have shown favorable response.

As a result of further investigations, a more impressive response was obtained through a new method with the aim of separating the enzymes selectively from the solutions. All adverse reactions were eliminated and by concentrating the catalytic enzyme content, a far more intense therapeutic response could be obtained.

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The role of the enzyme then was studied by a new development in microscopy which enabled us not only to identify the enzymes by visualization but also to study their action on normal as well as pathological tissue.

Among other observations were the change that occurs in enzymes after bombardment with Gamma Rays. The explanation lies in the finding of the three Nobel Prize Laureates Cherenkov, Tamm And Frank that showed that in a material bombarded with gamma rays (material such as mica, glass or water) greater speed of gamma rays versus light results in to the formation of a spectrum (Cherenkov Phenomenon). The spectrum surrounding the single molecules is an electromagnetic shock wave. This energy was used to explode particles of unknown weight such as proton mesons, neutrons etc. The intensity and size of the exploding flash served then as a base for calculating the weight of these particles (Cosmic Counter).

When enzymes were bombarded with cobalt or gamma rays, they were not destroyed but picked up energy, increased in size, were surrounded by a spectrum (Cherenkov Phenomenon) and were capable of exploding small particles such as mentioned above.

This observation carries the important implication that finally an element in the human organism was discovered that could serve as a pickup system of energy and containing the long sought after source of the life process itself. The word electromagnetic

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energy is here loosely used as our investigations have already revealed that the life energy contained in the living cells or the transformed energy transmitted to them by enzymes does not fit into any of our present concepts in accordance to their wave length and frequency (Separate project).

The enzymes revealed themselves as true catalysts passing on energy and promoting specific metabolic processes in accordance to their specific structure.

Clinical observations seemed to confirm this concept when only .2ccm of radiated enzymes when injected into human beings, was capable of transmitting and promoting the charge to all enzymes recovered from circulating blood only a few minutes after their application. The electric charge and the spectrum could not only be visualized but directly measured as an increase in m.AMP by direct measurement.

Beyond these basic observations of theoretical value, this method was applied for an industrial purpose to show its validity. The Rennet enzymes treated as a result of these observations could then be produced in minutes compared with a complicated and time consuming way that took sixty days and followed all the specifications which are designed in curdling the milk under special conditions.

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Radiated and unirradiated enzymes were the subject of laboratory and clinical study. In the laboratory study, the project included various enzymes and the change on tissues caused by their presence. However, the far more interesting observation came from the study of enzyme therapy on the difficult subject of neurodegenerative disease.

The study of forty cases of the author's own observation, and in many cases of other physicians, confirm the original impression that the factor responsible for the degenerative process is enzymatic in nature judging by the results obtained. These exceed the occasionally observed plateaus or remissions even in muscular dystrophy and amyotrophic lateral sclerosis in which therapeutic results could not be obtained by any other methods.

It is noteworthy that even in malignant disease a considerable amount of research is devoted to the enzymatic approach.

The ability of the enzyme of stimulating or absorbing any substance could be the proof of great usefulness in other medical fields. Among other things many medications mixed with selected enzymes could be applied through the skin as effectively if not more so than or parenteral use. Detoxification or neutralization of poison, treatment of infectious and virus diseases are a distinct possibility, in which in contrast to antibiotic and sulphur therapy the bacterial metabolism would not be stalled or arrested by excessively accelerated (wheat killer function). The harmful side effect would not only be avoided but the human organism benefited and regenerated.

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It is not the purpose of this short communication to go into the details of other uses in the industry of the application of this method including machines that would derive the energy on this newly discovered biological principle, although these have already passed the blueprint stage.

The purpose of our investigation is to prepare and observe as many enzymes as time and money will permit. However, the importance of these discoveries should not be underestimated as many other uses are close at hand such as protection from fall-out, the new therapeutic vistas for the treatment of neurodegenerative disease, infectious or geriatric conditions, prevention and treatment of industrial poisoning.

This then in short has been the achievement of a foundation extremely limited with funds and time and manpower at their disposal:

1) Solubilization of steroids. (patent) Laboratory work and clinical investigation.

2) The synergism of soluble steroids in particular cortison and its modern chemical compounds and antibiotic in the treatment of infectious disease, specifically infectious hepatitis (publication).

3) Solubilisation of tissues versus extraction. Clinical and laboratory work in degenerative diseases.

4) Making pyrazolon and butazolidin less toxic and more acceptable for intramuscular injections (patent pending)

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5) Synergism of P. and B. and soluble cortison (patent pending) Clinical and laboratory investigation.

6) Separation - new method - of enzymes from plant and animal sources.

7) Changes in enzyme caused by x-ray and cobalt bombardment. Clinical application, cinematographic documentation, industrial application.

It is obvious that such a tremendous field has now to be split up into various projects. The vast implications of this discovery to be evaluated by greater means and increase of laboratory staff.