

Some Aspects on the Biological Problems of Heridity, Mutations, Ageing, and Tumors in View of the Quantum Theory of the DNA Molecule.

Dr. Otieno Malo  
Department of Physics  
University of Nairobi

(SEMINAR NOTES)

I. Introduction:

The problem we are going to study is on the border line between several different fields:

Mathematics, Physics, Chemistry, Biochemistry, Biology and Medicine. It is therefore clear that no one can be a specialist in all these areas, and many subjects can be covered only in a very rough and certainly inadequate way. Some people claim that only Chemist can speak to Chemist, Biologist to Biologists etc and that non-specialist should keep quiet since they will anyway ONLY stir up CONFUSION. To day natural science are so highly overlapping however, that we feel that in inspite of all difficulties, it is greatly important to try to bridge the gap between the classically established fields and create a single UNIFIED Area called SCIENCE.

Recent developments in Biology has shown that DEOXYRIBONUCLEIC ACID (DNA) is the hereditary substance which carries the genetic message in cell. According to WATSON - CRICK'S Stereo - model, the DNA molecule is a double helix with the TWO sugar - phosphate chains held together by a sequence of pairs of nucleotide bases are

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