

according to his clinical demonstrations, depends upon interference with the energy production and energy reception of the functional units of the cell.

In order to work out the state of combinations of a pathogen of any kind with the host cell, Dr. Koch had to identify the atomic groups of the pathogen that made the combinations. He decided that the pattern of combination is the same for all diseases he has investigated, and that *one atomic arrangement and electronic disposition in the pathogen* gives it the power to make the combinations, and. that two atomic groups associated together are essential to the energy producing mechanism and the energy accepting mechanism of the host cell. These he describes in detail in his reports, explaining the atomic groups and the electronic dispositions, the steric advantages, and the determining, bond strengths and the atomic distances that take part.

Dr. Koch identified the circumstances that disposed to the integration of the pathogen with the functional units. He found that anoxia was the disposing factor. In this finding the great Dr. Otto Warburg supports him but the rest of Koch's Theory is quite different from that of Warburg. The latter's proposal limits further progress in his clarification beyond the fact of anoxia, whereas Dr. Koch by demonstrating how anoxia works in detail goes far beyond Warburg who claimed that cancer was irreversible. **Dr. Koch showed not only that the carcinogenic process is reversible, but also the process by which the reversal can be accomplished.**

Let us take a look at one disease entity that ***Dr. Koch has explained as cancer. His exposition identifies three factors in the production of cancer; a disposing factor responsible for the anoxia, an initiating carcinogen, and a supportive or propagative carcinogen.***

The disposing factor is a fungus found in all specimens of cancer. Dr. Glover identified it in 1923. This author found it in 1942. Dr. Irene Diller, a leading bacteriologist at the University of Pennsylvania, identified it in 1948. So it is well identified and, as Dr. Koch claims, its product, an amine quite similar to the amines of the antibiotic class used so widely in medicine that causes the gelation of the blood in the area that develops cancer as well as in the general circulation, and this brings about the anoxia required for the further evolution of the pathogenic process.

The initiating carcinogen is described by Dr. Koch as quite often a bacterial, nitrogenous product, amines and mercaptans, sulfydryl compounds that are easily dehydrated to form a free radical that adds to one of the atomic groups of the energy producing and energy accepting mechanisms. The group to which the sulfur free radical adds in the host cell is an ethylenic linkage, which is essentially two carbon atoms joined by double bonds and possessing a rich quota of mobile electrons.

This double bond is conjugated with a ***Carbonyl group*** that does the dehydrating of fuels, viruses or carcinogens that enter its field to start their combustion that supplies the energy for function. By this act, when adequate molecular oxygen is at hand, it protects against disease. **But when oxygen is lacking, the free radical formed by the dehydrogenation cannot combine oxygen and form a peroxide free radical to continue the combustion process. This free radical can do only one thing, and that is add to the closest double bond at hand, and this double bond is the very one that is conjugated with and activates the Carbonyl group** which removed its hydrogen atom to form the free radical. Thereby the foreign substance, or fuel product, is integrated with the host cell's functional mechanism and paralyzes its energy production, and ***normal function is blocked.*** However, ***the function can be forced beyond physiological control by receiving vicarious energy*** as the result of the following events, and thereby ***the various allergies and cancer can come about.***

The ***addition of the free radical to the double bond*** as stated above, has an ***initiating significance,*** for the other terminal of this bond ***becomes a free radical*** which adds to one terminal of the most exposed double bond of the propagating allergen or carcinogen if one happens to be present.

This produces a free radical at the other pole, which adds to another molecule of the same substance in the same way to start a polymerization process that produces the energy, which passes right into the energy receiving mechanism of some functional unit to force its activity. Thus the function of secretion as in hay fever, the contractions of bronchial muscles as in asthma, the continuous generation of impulses as in the fixed ideas, or compulsions of insanity. Or when the mitotic mechanism is affected, the uncontrolled cell divisions of neoplasia are produced. **This is the concept of Dr. Koch offering a Least Common Denominator in, pathogenesis as based on the properties of the double bond, its alpha-placed methylene groups and the free radical. He uses these same properties to accomplish an orderly reversal of the pathogenesis.**

The substances that are able to serve as initiating carcinogens are several products: the *products of tobacco smoke and exhaust gases* from combustion engines, *illuminating gas*, etc., as well as many *industrial products and dyes*. Among *propagating carcinogens*, according to Dr. Koch, are *viruses, products of germ metabolism elaborated in anoxic foci that is in dense scars that healed some serious infection*, as in the tonsils, the appendix, etc. Here the germ product does not receive enough oxygen to cause its destructive combustion, and the *free radicals liberated add to the double bond to constitute a polymerization process*. Such *products can enter the bloodstream and penetrate tissue cells and combine with the energy producing mechanism or energy accepting mechanism*, as described in Dr. Koch's books, and continue polymerizations that yield *the energy which forces the cell divisions of cancer*. There is much more to it than this. However, enough is said to show that a definite process of carcinogenesis is exposed, and in this process the means for its reversal, the correction or if you wish, the cure of the disease is provided. **Nature, herself, provides for the cure right in the pathogenesis. Viruses are initiating carcinogens that require the cooperation of the polymerizing bacterial products to complete the act of cancer production.**

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