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Phenomenon of Bacterial Pathogenicity as a Function of Bio-Molecules

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The bacterial pathogenicity phenomenon is the poly-functional biological potency of germs that are realized by factors (determinants) of pathogenicity (PF).

Biological functions are responsible for bacterial pathogenicity in a multi-cellular host organism: The adhesive function, the function of invasion and penetration into the cell, the function of evasion of host defense and the damage function. Factors of pathogenicity are representative bio-molecules possessed different functional activity. The ligand-receptor interaction of bacterial PF and receptors on eukaryotic cells is the basis of specific lesions caused by the pathogen.

Biography:

Dr. Yurii V Ezechuk has Ph.D., Dr. Biol. Sciences and the title Professor in Biochemistry. He graduated from Moscow State University's Department of Biology, where he majored in microbiology. For more than 30 years he worked in Russian Academy of Medical Sciences, the Gamaleya Research Institute, where he founded the Laboratory of the Molecular Bases of Bacterial Pathogenicity, specializing in the study of the model of enzymes, toxins, antigens, produced by variety pathogens. He developed the biological concept of the phenomenon of bacterial pathogenicity. In 1993 he was subsequently invited by the US government to conduct research projects and worked at the National Jewish Medical and Research Center in Denver and the Biomedical Center of the University of Colorado.