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Brief Biographical Sketch

B.Sc (The Hebrew University in Jerusalem, 1962), M.Sc. (Medical microbiology, and pathological chemistry, Tel Aviv University, 1967), Ph.D. (Molecular genetics, The Weizmann Institute of Science, 1976).

A staff member at the Israel Institute for Biological Research, Israel (IIBR), for ~30 years, including 2 years as a postdoc at the Public Health Research Institute of the city of New York (PHRI), and 3 years as a professor at Rutgers University (RU), in New Jersey, Dept. Biochemistry and Microbiology.

At the IIBR: Biotechnical projects involved scaling up of computerized fermentations and purification processes. Molecular genetic studies involved control of enterotoxins synthesis by staphylococci causing food poisonings, R&D of pharmaceuticals involved cloning and expression of human and bovine interferon genes, genes sequencing, and R&D of human and veterinary vaccines by genetically altered microorganisms, edible fungal mass, and enzymes for food industry, and bacterial extraction of precious metals from coal ash (emitted by power stations). Studies of antiviral and antibacterial agents in herbal extracts, involved preservation of meat products, and treating burn wounds inflicted in animals, and in humans pressure sores and diabetic gangrenes.

Feasibility studies involved production of biodegradable biopolyester poly- β -hydroxybutyrate (PHB) and derivatives, for medical and industrial applications.

At the PHRI, in collaboration with Pasteur Institute in Paris: Studies of staphylococcal resistance genes, that caused post surgical infections in hospitals in different countries. Electron microscopy analyses of genes heteroduplexes revealed molecular events and molecular evolution of resistance genes.

At RU: Cloning of microbisporel endoglucanase genes in *Zymomonas*, an ethanol producing bacterium, for production of ethanol for fuel.

Early retired the IIBR, turned to study EMF and chemical hazards, and their combinations. Since 2000 a consultant: Surveys of radiation in residential areas, consultations and opinions of municipalities and residential committees against cellphone companies. Studies of cancer clusters around radio antennae, in Haifa, Porat and Naan, and around cellphone masts in Usfie, Kfar Yassif, Baka al Garbie, Ramat Gan, and starting in Jerusalem. Opinions on chemically polluted Kishon river, and cancer among navy seals, and fishermen anchoring there. Cancer in military servicemen due to chemical pollutants, and exposure to radar, cancer incidence in among chemical industry workers. Opinion of safety of food preservatives for a commercial company.

Holds a free line of support and advice for the public, on residential exposure to RFR, and shielding. Gave testimonies at parliament committees, and state controller on EMF hazards, and took active part in phrasing new bills in the parliament. Presented lectures in Israel and Japan. Active in most disputes on EMF hazards, and participated in radio and TV PROGRAMS on EMF hazards.

An author and coauthor of 57 research papers, 55 reports to companies, 3 patents, 2 chapters in books, 12 papers in hi-tec journals and internet websites. An author books: *Your Health in Computer Age* in Hebrew ISBN #965-7014-33-6, translated to English (on Omega news website), *Keep Healthy with Pollution, Computer, and Cellphone*, translated to Japanese, ISBN#4-8641-0401-X, published in Tokyo, and translated to French (in preparation). An author of *Law and Justice*, a collection of legal phrases in Latin, translated to Hebrew, for lawyers, ISBN#965-7098-15-7. Scientific editor of books published in Hebrew: 10 (out of 12) volumes of *Time-Life Understanding Nature*, Kurzweil R. *The Age of Spiritual Machines*, Weston T. *Atlas of Anatomy*, and Parker S. *The Human Body*. All published in Israel.