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Aging, pathogen-specific vaccines and chronic inflammation: Bases for 'mild', 'moderate' and 'severe' immune disorders including site-specific cancers

Extensions of accidental discoveries on experimental models of acute and chronic ocular inflammatory diseases that we established at the Univ. PA in 1980's are presented. Analyses of original data provided a series of first evidence for a direct link between inflammation and developmental phases of immune dysfunction toward tumorigenesis and angiogenesis. The only evidence on initial events for interactions and synergies between activated host and recruiting cells toward tumorigenesis was reported in 2014. Effective immunity was defined as balance between two highly regulated and biologically opposing arms, Yin and Yang of acute inflammation, an amazingly precise signal communications between immune and non-immune systems requiring differential bioenergetics. Unresolved inflammation was defined as common denominator mapping induction of 'mild' (increased allergies), 'moderate' (hypertension, colitis, gastritis, pancreatitis, emphysema) or 'severe' (neurodegenerative, autoimmune diseases or cancer) immune disorders. Little/no other evidence presents systematic early events on immune disruptors-(microbiota, chemicals/carcinogens, pathogen-specific vaccines)- induced developmental phases of immune dysfunction toward tumorigenesis. After a century of cancer research and therapy, failure rates of therapies for solid tumors are 90% (+/-5). Highly powered structure in medical establishment vs. anti-system and chaos in cancer research is potent recipe for failed therapeutics ('medical/scientific ponzi schemes') that kill patients but generate huge corporate profit. American health status ranks last among other developed nations despite the highest amount that USA invests on healthcare. Answer to cancer and improved public health is possible only by switching current culture of 'who you know' to a culture of 'what you know'. Development of universal vaccines to promote immunity and prevent diseases for a healthier society should be among logical approaches for future studies. Policy makers and medical/cancer establishment are urged to return to common sense that our forefathers used to serve the public. Yin-Yang immune 'Tsunami' altered immune dynamics toward multistep carcinogenesis Khatami, 2011, 2014.

Biography

Mahin Khatami earned her PhD on Molecular Biology from Univ. PA (1980), after completion of MA (Biochem), MS (Science Education) and BS (Chemistry) from SUNY at Buffalo and Iran. As research faculty at Univ. PA, she was involved in two major projects; molecular/cellular biology of diabetes complications and models of acute and chronic ocular inflammatory diseases. At NCI/NIH, as Program Director (HSA) her earlier studies became accidental discoveries and highly relevant to cancer research and clinical studies. Since 1998, her challenging efforts to promote the role of inflammation in cancer science which initially met with severe oppositions, denial and rejections by NCI managers, seem awakened the entire cancer community in recent years. Numerous funded projects focus on various topics of immunology/inflammation. She has published an NCI-invention on standardizing cancer biomarkers criteria as foundation of database. Her last position before retiring at Professor level was Director, IMAT Program-OTIR/OD/NCI/NIH. She has published extensively in refereed scientific journals, book chapters, conference proceedings and books.

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