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The natural killer cell: Discovery and the use of supplements to enhance NKC activity

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The natural killer cell (NKC) is the cell-mediated cornerstone of innate immunity. The purpose of this presentation is to give a historical perspective of the author's discovery of NKC and the application of supplements in the enhancement of NKC in human cancers for the development of human health and well-being. Since the discovery of the NKC, as observed by Nomarski optics, scanning (SEM)/transmission electron microscopy (TEM) with cellular numeration and enrichment using bovine serum albumin (BSA) continuous gradients, there have been significant research and clinical studies to increase the effectiveness of NKC in the destruction of cancer cells. Based on significant research and clinical studies, at least 16 components have been identified that enhance or may enhance NKC activity. These supplements include alpha-lipoic acid, arabinosylin, curcumin, garlic, genistein, ginseng, lentinan, mistletoe, N-acetylcysteine, resveratrol, selenium, vitamin B, vitamin C, vitamin D3, vitamin E and zinc. Further research is underway to activate NKC in primary and metastatic cancer.

Biography

Jerry T Thornthwaite received his PhD in chemistry and biophysics from Florida State University in 1977. He was Founder and Director of the two largest oncology laboratories in Miami. He founded the Cancer Research Institute and has been the Director for the last 28 years, while serving on the faculty of several universities including Miami and East Tennessee State University. His current work in translational medicine is involved in developing formulations for the treatment of malaria, cancer, Alzheimer's disease and MRSA. He has published over 60 technical articles and abstracts and has participated in numerous technical presentations and has seven patents. In 1972, he discovered what is now recognized as the Natural Killer Cell, the cornerstone for our surveillance defense mechanism against the survival of cancer cells. He developed the application of NutraNanoSpheres (NNS) to health and wellness, and developed the first truly water-soluble malaria drug. He has spent the last 13 years in medical missions in Haiti, having pioneered a cure for malaria that is clinical trials in Nigeria and other African countries.

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