While the origin of human cancers is still being debated, this presentation will examine the evidence in support of either the “Stem Cell Theory” or the “De-Differentiation or “Reprogramming” Theory of Carcinogenesis. Several concepts related to the genesis of cancers including (a) The Multi-stage, Multi-mechanism concept of carcinogenesis; (b) evolution of earth’s physical environment ultimately allowed the appearance of anaerobic microbiological life forms that metabolized via glycolysis; (b) the evolution of photosynthetic algae led to the oxygenation of the environment and to proto-eukaryotes after the symbiotic marriage of bacteria that could produce energy via aerobic respiration or oxidative phosphorylation; (d) the Warburg metabolism of cancers; (e) the concept of “cancer stem cells” and “cancer non-stem cells” in all tumors; (f) the Barker hypothesis which states that many chronic diseases later in life might be the result of in utero embryonic/fetal exposures to a variety of factors.