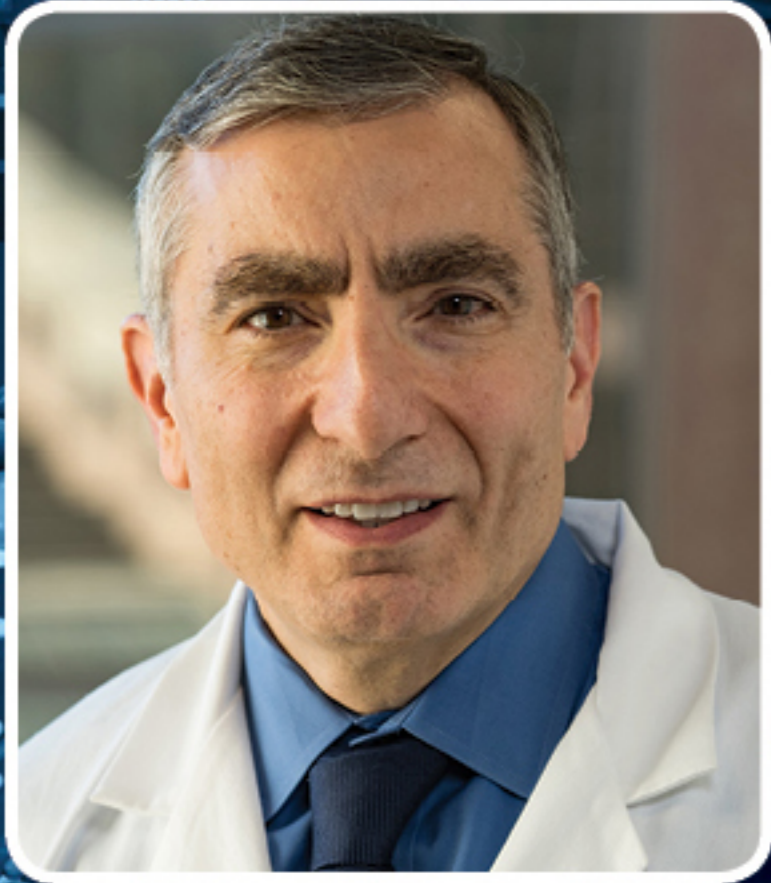


# Probabilities of DNA Assembling Spontaneously



## James Tour Ph.D.

James Tour Ph.D. is listed in "The World's Most Influential Scientific Minds" by Thomson Reuters and named "Scientist of the Year" by R&D Magazine. Tour stated the following about the first life on earth (which necessitates a genetic code) arising from random processes during a university lecture: ***"The probabilities are so dauntingly impossible. When you talk to mathematicians...it is huge, huge improbabilities...you could wait billions of years, it's not going to happen."***



## Harold Morowitz Ph.D.

Harold Morowitz Ph.D., the late Harvard professor of Molecular Biophysics and Biochemistry, estimated the chance formation of the smallest, simplest form of a living organism is  $10^{340,000,000}$ .



## John Barrow Ph.D.

John Barrow Ph.D., recipient of the prestigious 2016 Gold Medal of the Royal Astronomical Society, and Frank Tipler Ph.D., a mathematical physicist and cosmologist, both concluded ***"the odds against assembling the human genome spontaneously are between the fraction of 10 to the trillionth power multiplied by  $10^6$  and 10 to the septillion power multiplied by  $10^6$ ."***



## Werner Gitt, Ph.D.

Werner Gitt, Ph.D., is an information specialist and was the former director and professor at the German Federal Institute of Physics and Technology. He states that a coding system (such as DNA) is **always the result of an intellectual process** and thus requires **an intelligent originator**.