



CENTER of EXCELLENCE
for ENGINEERING BIOLOGY



George Church

George Church is Professor of Genetics at Harvard Medical School and Professor of Health Sciences and Technology at Harvard and the Massachusetts Institute of Technology (MIT). He is Director of the U.S. Department of Energy Center on Bioenergy at Harvard and MIT and Director of the National Institutes of Health Center of Excellence in Genomic Science at Harvard. His 1984 Harvard PhD included the first methods for direct genome sequencing, molecular multiplexing & barcoding. These led to the first genome sequence (pathogen, *Helicobacter pylori*) in 1994. He helped initiate the Human Genome Project in 1984 and the Personal Genome Project in 2005. His innovations have contributed to nearly all “next generation” genome sequencing methods and companies (CGI, Life, Illumina, Nanopore). This plus chip-based DNA synthesis and stem cell engineering resulted in founding additional application-based companies spanning fields of medical diagnostics (Knome, Alacris, AbViro, Pathogenica) & synthetic biology / therapeutics (Joule, Gen9, Editas, Egenesis, enEvolv, WarpDrive). He has also pioneered new privacy, biosafety, environmental & biosecurity policies. His honors include election to NAS & NAE & Franklin Bower Laureate for Achievement in Science. He has coauthored 402 papers, 74 patents & one book (Regenesis).