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**Barry Merriman\*** (barrym@ucla.edu), Life Technologies, Inc., 3175 Staley Road, Grand Island, NY 14072. *The Future of Math in Biology: Solving Disease, Creating Life*. Preliminary report.

I will summarize the state of technology in reading "DNA Genome Sequencing" and in writing "DNA synthetic biology" and describe the roles that math can play, both inside the core technologies, as well as in the major applications to hunting genes that cause disease, and creating artificial life forms with desired properties. (Received September 27, 2012)