

Future of Biology (*Draft*)

The basic life sciences will play a fundamental role at three levels: at the nano and sub-nanolevel of the DNA and protein molecules, at the human scale of disease prevention and treatment, and at the very large scale of complex systems like sustainable energy production, environmental quality, and global warming. Biological principles will be applied to problems in computation, sensing, material development, motive systems, system control, and information processing and storage, to name just a few.