

What is it like to do research in Mathematical Biology?

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I will give a general overview of what it is like doing research in mathematical biology (not specific to my own research area). Mathematical biology aims at the mathematical modeling, analysis and simulation of biological processes at molecular, cellular and systems levels, using existing or developing new methods and techniques of mathematics, physics and computing. Describing systems in a quantitative manner means their behavior can be better simulated, and hence properties can be predicted that might not be evident to the experimenter. This requires precise mathematical models. It has both theoretical and practical applications in biological, medical and biotechnology research.