

# Difference Equations and their Applications in Biology

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Mathematical models may serve as valuable tools for gaining insights into the spatiotemporal dynamics of biological systems. This session will focus on the development and analysis of difference equations systems as applied to various areas of ecology, epidemiology, and systems biology. Model analysis may include, but is not limited to, local and global stability, bifurcation analysis, model parametrization and sensitivity analysis, and persistence theory. We also welcome talks focused on more general difference equation systems whose results may have potential applications to biology.