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Interdisciplinary Training in Mathematical Biology Through Team-based Undergraduate Research and Courses.

Inspired by Bio2010 and leveraging institutional and external funding, Truman State University built an undergraduate program in mathematical biology with high-quality, faculty-mentored interdisciplinary research experiences at its core. These experiences taught faculty and students to bridge the epistemological gap between the mathematical and life sciences. Together they created the infrastructure that currently supports several interdisciplinary courses, an innovative minor degree, and long-term interdepartmental research collaborations. This talk describes how the program was built with support from the NSF UBM program, and it shares lessons learned that will help other undergraduate institutions build their own program. (Received September 21, 2010)