Bringing researchers together from around the world to collaborate across disciplinary boundaries to find creative solutions to today’s complex biological problems

A major goal of mathematical models and analysis in biology is to provide insight into the complexities arising from the non-linearity and hierarchical nature of biological systems. The primary goals of NIMBioS are to foster the maturation of cross-disciplinary approaches in mathematical biology and to assist in the development of a cadre of researchers who are capable of conceiving and engaging in creative and collaborative connections across disciplines to address fundamental and applied biological questions.

Catalyzing Innovation

NIMBioS Working Groups focus on major scientific questions at the interface between mathematics and biology. Ranging from 10-15 team members, Working Groups meet multiple times to accomplish well-defined goals, such as a ground-breaking publication or tool development.

NIMBioS Investigative Workshops focus on a broad and transformative interdisciplinary topic. Ranging from 30-40 participants, Workshops synthesize information with a goal to identify future directions that lead to Working Groups.

Other research opportunities include postdoctoral and sabbatical fellowships, short-term visits and graduate assistantships. NIMBioS also sponsors tutorials, curriculum development, and other educational activities.

www.nimbios.org  865-974-9334 © 2015 NIMBioS. All rights reserved.
Broader Impacts

NIMBioS initiatives focus on enhancing education and diversity at the interface of mathematics and biology. NIMBioS offers an array of activities to meet the educational needs for learners of all ages, including Biology in a Box for K-12, Summer Research Experiences for Undergraduates and Teachers, an undergraduate research conference, and Visiting Graduate Student Fellowships.

“What people are saying”

“NIMBioS has united the forces of mathematical and computational biology communities and forever changed the landscape of mathematical biology research and education in the US and the world.”
—Participant, Food Web Dynamics Working Group

“I think the recent NIMBioS Working Group was the most productive, useful, and collaborative experience in my career, to date. I am simply thrilled to be a part of it.”
—Participant, Play, Evolution, and Sociality Working Group

“The NIMBioS network that brought our team of mathematicians, economists, ecologists and epidemiologists together has gone on to win grants from the NIH, the NSF and the UK’s BBSRC.”
—Participant, Synthesizing and Predicting Infectious Disease Working Group

Got a research idea?

If you are interested in requesting support for a new Working Group or Workshop or are interested in support for a short-term or long-term visit, visit our website at www.NIMBioS.org. Activities have lead to the publication of more than 400 journal articles on a variety of topics at the interface of mathematics and biology.

Funding

NIMBioS is sponsored by the National Science Foundation through NSF Award #DBI-1300426, with additional support from The University of Tennessee, Knoxville.

Join us

facebook.com/NIMBioS
@NIMBioS
info@nimbios.org

© 2015 NIMBioS. All rights reserved.