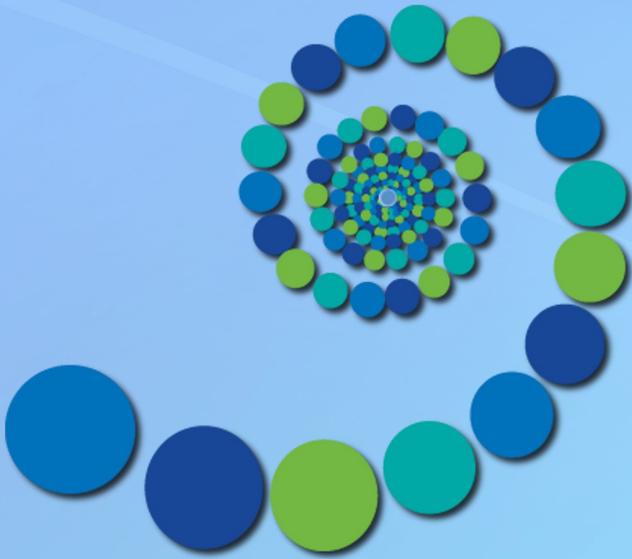


Five Years At-A-Glance, 2008-2013



NIMBioS

National Institute for Mathematical
and Biological Synthesis



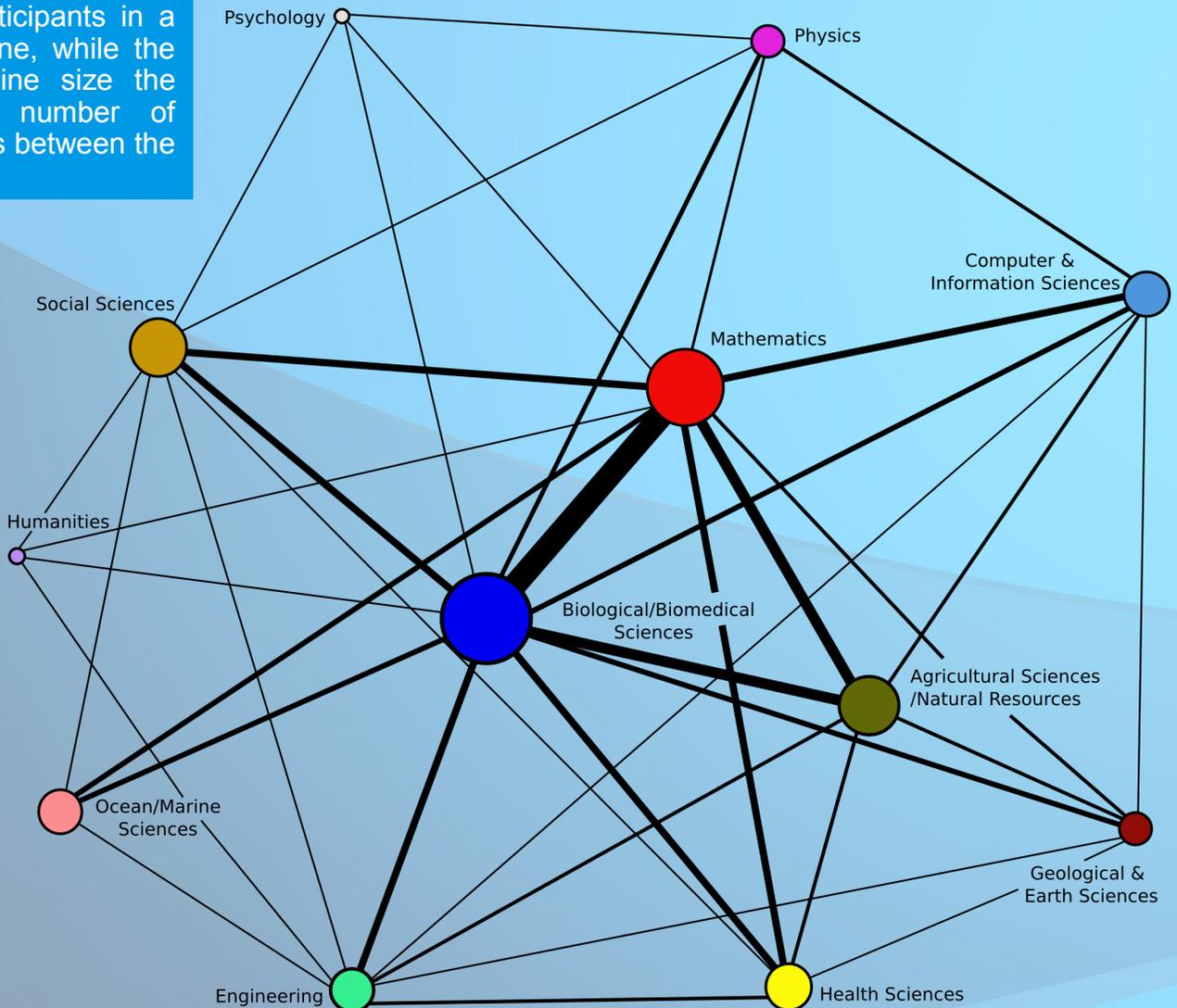
In September 2008, the National Institute for Mathematical and Biological Synthesis was established with a five-year award from the National Science Foundation. During the first five years, more than 3,500 researchers from every state in the US and more than 55 countries participated in NIMBioS' scientific endeavors, leading to more than 270 scientific articles on a variety of topics at the interface of mathematics and biology. NIMBioS is also sponsored by the U.S. Department of Homeland Security and the U.S. Department of Agriculture through NSF Awards #EF-0832858 and #DBI-1300426, with additional support from The University of Tennessee, Knoxville.

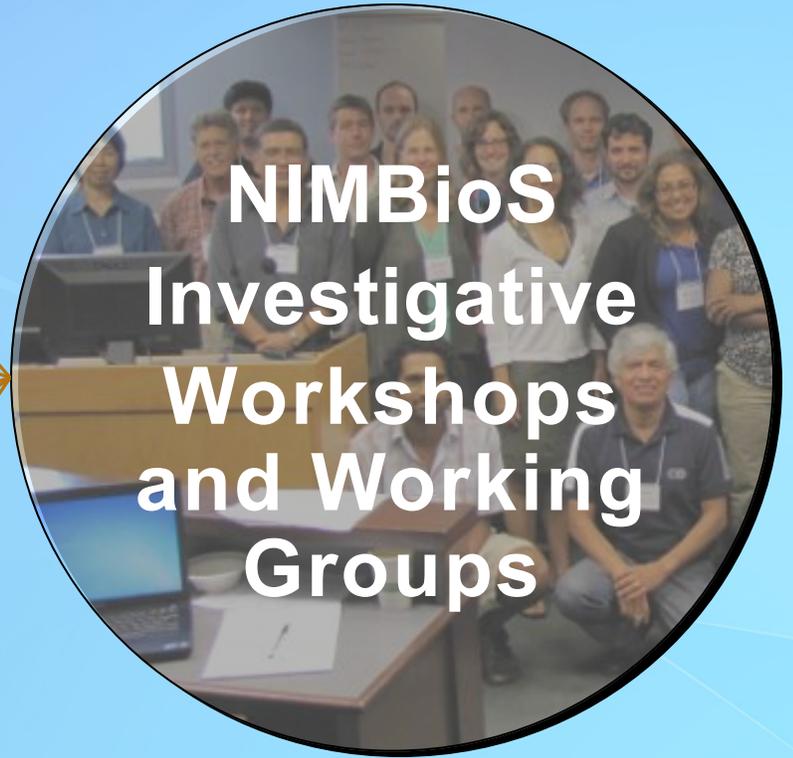
FOSTERING INTERDISCIPLINARY CONNECTIONS



- Our two-year postdoctoral fellowships have supported 27 postdoctoral fellows.
- Sabbatical fellowships of up to one year have supported eight sabbatical fellows.
- Short-term visits of up to four months have supported 154 total visits.

NIMBioS science spans a variety of disciplines and all areas of biology. The larger the node size, the greater the number of NIMBioS participants in a given discipline, while the thicker the line size the greater the number of collaborations between the disciplines.





SELECT FINDINGS

From some of the 91 Investigative Workshop and Working Group meetings at NIMBioS since 2008

- Synchronous forces influence invasive gypsy moth outbreaks: *Proceedings of the Royal Society B*
- Excessive biological defenses evolve under specific conditions: *Nature Communications*
- Modeling of microbes leads to greater insights in ecology: *PNAS*
- Emerging disease kills North American bat species: *Science*
- Human risk behavior changes influenza spread: *PNAS*

As seen in:

**SCIENTIFIC
AMERICAN™**

**The New York
Times**

**Los
Angeles
Times**

TheScientist

**USA
TODAY**

BROADER IMPACTS

- 140+ Education & Outreach Activities, with programs promoting equity in STEM
- Our summer research experience program and undergraduate conferences hosted 500+ students.
- Our tutorials and summer graduate school hosted 400+ participants from across the world.



- NIMBioS uses a systems-based approach to program evaluation of center-scale effectiveness.
- Formative and summative assessments are grounded in the core values of the Institute.
- More than 120 systematic evaluations of NIMBioS activities and events have been conducted.

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