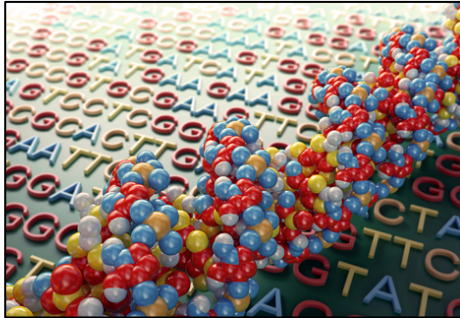


# NIMBioS

National Institute for Mathematical  
and Biological Synthesis



## Next Generation Genetic Monitoring *A NIMBioS Investigative Workshop*

**November 7-9, 2016**

**NIMBioS at the Univ. of Tennessee, Knoxville**

This workshop aims to unlock the conservation potential of genomics research, ensuring that genetic and non-genetic factors are considered in quantitative fashion when evaluating and managing wild and cultivated species. More broadly, the workshop will lay a foundation for developing new theory and approaches for describing, quantifying, and interpreting the complex, multidimensional information contained in biodiversity datasets. In developing a framework for constructing new mathematical tools, we will: identify key attributes of successful indices in biodiversity science, survey and critique existing genetic metrics, and identify potential statistical approaches suitable for summarizing the highly dimensional nature of genetic data. The inherent challenges of our aims require integration of mathematical and computational approaches with ecology, genetics, and biodiversity science

Participation in the workshop is by application only. Individuals with a strong interest in the topic are encouraged to apply, and successful applicants will be notified within two weeks of the application deadline. If needed, financial support for travel, meals, and lodging is available for workshop attendees.

**Application deadline: July 24, 2016**

For more information about the workshop and a link to the online application form, go to [http://www.nimbios.org/workshops/WS\\_nextgen](http://www.nimbios.org/workshops/WS_nextgen)

*The National Institute for Mathematical and Biological Synthesis (NIMBioS) brings together researchers from around the world to collaborate across disciplinary boundaries to investigate solutions to basic and applied problems in the life sciences. NIMBioS is sponsored by the National Science Foundation, through NSF Award #DBI-1300426, with additional support from the University of Tennessee, Knoxville.*

