NIMBioS
National Institute for Mathematical and Biological Synthesis

Heart Rhythm Disorders

A NIMBioS Investigative Workshop

December 3-5, 2014
NIMBioS at the Univ. of Tennessee, Knoxville

Mathematical modeling provides a useful tool to better understand heart rhythm disorders, which require a complex system-level approach that incorporates the interaction between electrical, chemical and mechanical activities of the heart on a variety of biological scales. The workshop will bring together researchers from different disciplines in order to better understand the existing mathematical challenges and to explore new directions in modeling cardiovascular dynamics. Workshop goals are to identify challenges and frontiers in mathematical modeling, statistics and prediction, dynamics and control, stability analysis, as well as data acquisition and analysis for heart rhythm related diseases.

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: August 1, 2014

For more information about the workshop and a link to the online application form, go to http://www.nimbios.org/workshops/WS_cardiac

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, the U.S. Department of Homeland Security, and the U.S. Department of Agriculture with additional support from The University of Tennessee, Knoxville.

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