

# Mathematical Physiology

workshop and symposium • iiser pune • january 15-23, 2011

Physiology is one of the oldest branches of biology to have attracted systematic theories of structure and function: The comprehensive tradition of Indian medicine, Ayurveda, for instance dates as early as 300 BC. Modern investigation now relies heavily on mathematics to complement our understanding. The twin goals of this meeting are to encourage and enhance pedagogy and research in mathematical aspects of physiology. It comprises of:

**Workshop, Jan 15-21**, designed to increase awareness about mathematical modeling in physiology in the country. An intensive set of tutorials on various topics will introduce students and researchers interested in the subject to classical as well as the state-of-the art in modeling, to enable them to rapidly transition to active research in the field. The workshop will be immediately followed by two days of research talks:

**Symposium, Jan 22-23**, which hopes to bring together theoreticians and experimentalists who work on - or would like to foray into - theoretical and mathematical approaches to physiology.

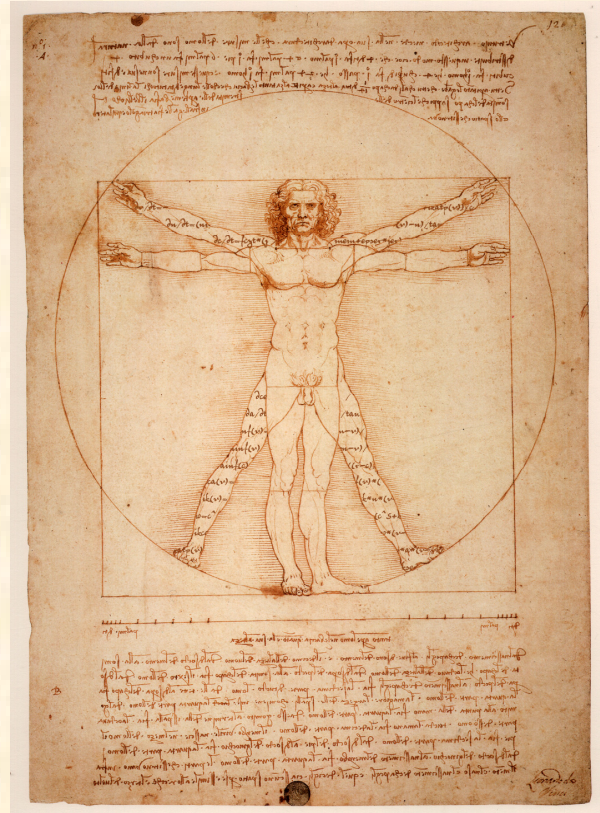
Applications can be filled online at our website <http://math.iisc.ernet.in/~imi/math-biorequestforparticipation.php> or downloaded and submitted via email or post to:

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#### ORGANIZERS

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These events are jointly organized by IISER Pune (<http://www.iiserpune.ac.in>) and the DST Center for Mathematical Biology at IISc (<http://math.iisc.ernet.in/~mathbio>):



#### TOPICS INCLUDE

Cell signaling, metabolism, neuroscience, cardiac dynamics, chronobiology and more

#### KEY SPEAKERS AND INSTRUCTORS

G Ambika, IISER Pune  
G Rangarajan, IISc  
James Sneyd, University of Auckland  
K V Venkatesh, IIT Bombay  
Radhakant Padhi, IISc  
Rahul Pandit, IISc  
Rohit Manchanda, IIT Bombay  
Sitabhra Sinha, IMSc  
Somdatta Sinha, CCMB  
Upinder Bhalla, NCBS  
and others

To enquire about local arrangements: [pgoel@iiserpune.ac.in](mailto:pgoel@iiserpune.ac.in)

**DEADLINE FOR APPLICATION: 5 NOVEMBER, 2010**

