

MBL**1888**

Biological Discovery in Woods Hole

2006 Physiology Course

Founded in 1888 as the Marine Biological Laboratory

MISSION:

The MBL Physiology course dates back to 1892 and has a rich history in training leaders in biology and generating Nobel Prize-winning experiments. However, this is not your grandfather's Physiology Course! It is an intensive laboratory course designed to teach students state-of-the-art techniques, provide an interactive environment where students and faculty from the biological and physical and computational sciences can teach one another their "trade," and promote learning by practice. The course will provide a rich environment that is distinct from university courses, emphasizing experimental creativity, original research, and interdisciplinary approaches.



Two different in silico model of the mitotic spindle: Computation meets the beach at the Physiology Course

COURSE DIRECTORS/INSTRUCTORS:

Ron Vale (UCSF)
Tim Mitchison (Harvard)

ADDITIONAL INSTRUCTORS:

Michael Brenner (Harvard University)
Marileen Dogterom (FOM Institute, The Netherlands)
Tony Hyman (Max-Planck, Dresden)
Jennifer Lipincott-Schwartz (NIH)
Dyche Mullins (UCSF)
Garret Odell (U. Washington)
Rob Phillips (Cal Tech)
Jim Spudich (Stanford University)
Alexander van Oudenaarden (MIT)
Clare Waterman (Scripps Institute)

VISITING SCHOLARS:

Richard McIntosh (University of Colorado, Boulder)
Kai Simons (Max-Planck Institute, Dresden)
Peter Walter (UCSF)
Toshio Yanagida (Osaka University)

An Interdisciplinary Course in Modern Cell Biology Using Microscopic, Biochemical, and Computational Approaches

June 10 - July 29, 2006

APPLICATION DEADLINE: February 1, 2006

Why take off time from your university to attend this course?

- Work and socialize with outstanding faculty in an energetic, collaborative setting and develop your abilities to formulate and experimentally address research questions.
- Be exposed to new ways of thinking about biological systems by mingling with students and faculty with various backgrounds in the biological, physical, and computational sciences.
- Learn new techniques. The course will provide training in light microscopy and biochemistry with state-of-the-art equipment and will merge computation with experimentation. The course exposes students to the problems and experimental tools of modern cell biology.
- Enjoy an enthusiastic work hard/play hard environment. Long hours in the laboratory seeking answers to exciting research questions will be interspersed with fun social venues in a beautiful ocean-side setting.



2005 class photo in front of the world's most famous scientific bar, the Captain Kidd.

Can you afford not to come?

For more information, go to our website: www.MBL.edu/physiology or e-mail: admissions@mbl.edu

Women and minorities are encouraged to apply. Backgrounds in physical/computational sciences as well as biology are welcome.
THE MBL IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION INSTITUTION.