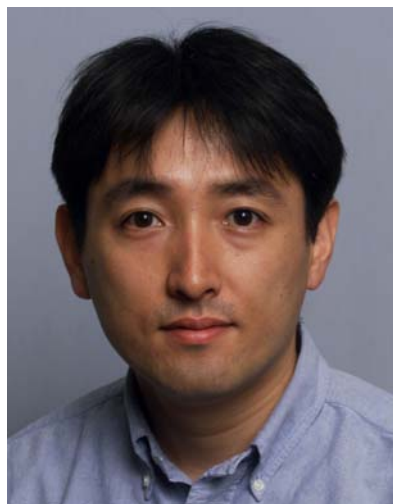


**JOHN P. MCGOVERN LECTURESHIP
IN BIOMEDICAL COMPUTING AND IMAGING**

**High-Resolution Cryo-Electron Microscopic Studies of
Microtubule-Based Motors**



Masahide Kikkawa, M.D., Ph.D.
Department of Cell Biology
University of Texas
Southwestern Medical Center (Dallas)

Dr. Kikkawa will present new high-resolution structures of two microtubule-based motors, kinesin and dynein, analyzed with cryo-electron microscopy. The studies are based in part on a novel helical reconstruction method for structures with a seam that take into account the special symmetry of microtubules.

Dr. Kikkawa is Assistant Professor of cell biology at the University of Texas Southwestern Medical Center in Dallas. Dr. Kikkawa is a graduate of the world-famous laboratory of Nobutaka Hirokawa with whom he has published a number of seminal papers (*Nature*, 376:274, *Cell*, 100:241, *Nature*, 411:439, *Cell*, 114:229, *Science*, in press). As an independent investigator he seeks to elucidate the functional dynamics of molecular motors with advanced image processing techniques.



DATE: Wednesday, June 2, 2004
TIME: 4:00PM – 5:30PM
**PLACE: Trevisio Restaurant, 6th floor,
John P. McGovern Medical Center Commons,
6550 Bertner Ave., Houston, TX 77030**

Parking in the Commons will be validated by Trevisio Restaurant
For information contact Dr. Yao Cong at 713.500.3981



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