

Eighth Annual Coherent Raman Microscopy Workshop at BIOPIC

Peking University, August 10 - 12, 2011

Be exposed to the cutting edge of a new bioimaging technique! This summer, Biodynamic Optical Imaging Center (BIOPIC) at Peking University will host the Eighth Annual Coherent Raman Microscopy Workshop (CRS Workshop), now featuring CARS and SRS microscopy.

The CRS Workshop has been held successfully by the Xie Group of Harvard University for seven years. Hundreds of researchers have familiarized themselves with this fast-growing field and the workshop has helped to promote many fruitful collaborations. Peking University of China is honored to carry this tradition and pledge to host a successful workshop.

Coherent anti-Stokes Raman scattering (CARS) and Stimulated Raman Scattering (SRS) microscopy allow noninvasive 3D imaging of living cells and tissue based on the vibrational contrast intrinsic to molecular species. Through improvements in detection sensitivity, theoretical understanding of the contrast mechanism and development of new laser sources, Coherent Raman Microscopy has matured as a powerful methodology for bioimaging in recent years. More information can be found at: <http://bernstein.harvard.edu/research/cars.html>.

This workshop will discuss the state-of-the-art of these rapidly evolving techniques. Coherent Raman Microscopy experts from academia and industry will combine discussion of the underlying principles of CARS and SRS with application through hands-on laboratory experience. The past years' workshops were truly successful. One hundred and ninety-four trainees from fifteen countries have attended the past six workshops. Some comments on past workshops:

“I hope this is the first workshop in a long series,” said one workshop attendee. “I enjoyed it very much and learned a great deal.”

“...an exceptional workshop in every regard.”

"This workshop was just like another Gordon Research Conference."

“I particularly like the way the three topics are put together: theory, instrumentation and applications.”

This year's workshop will feature demonstrations of prototypes of commercial microscopes and laser sources for CARS and SRS imaging.



BIOPIC

北京大学生物动态光学成像中心

Biodynamic Optical Imaging Center

This year's workshop is made possible through generous support from Peking University, APE, Coherent, High Q Laser, Leica, and Olympus.

Applicants from academia, government, and industry from all countries are welcome. Slots are available for a maximum of forty trainees. The application deadline is **Wednesday, June 1, 2011**. A limited number of fellowships will be available for graduate students or postdoctoral fellows courtesy of the sponsors. Additional information about the workshop, including the application form, can be found at:

<http://biopic.pku.edu.cn/crs/crs2011.html>

If you, your associates, or colleagues are interested in attending the workshop, please submit the application form and contact me at crsworkshop@pku.edu.cn. Feel free to forward the attached flyer to colleagues, students, or anyone else you believe will be interested in it.

Biodynamic Optical Imaging Center (BIOPIC) is an interdisciplinary research center established by Peking University in 2010. The aim of the center is to develop and apply the most advanced bioimaging and sequencing techniques to address fundamental biological and compelling medical problems at the molecular and cellular levels.

BIOPIC will take advantage of these latest technologies to conduct fundamental researches in biochemistry, biophysics, molecular biology and cell biology, with the hope to provide understanding of stem cells, cancers, infectious and metabolic diseases. BIOPIC wishes to make an impact on life sciences through international collaborations, by applying cutting edge technologies to biomedical research with a multidisciplinary approach. For more information about BIOPIC, please go to <http://biopic.pku.edu.cn>.

We hope to see you this summer in Beijing!

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