

INTERNATIONAL MICROSCOPY CONGRESS

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CALL FOR PAPERS



Revealing
the Nanoworld
in Life and
Materials Sciences

The IFSM and SBMM invite you to submit an abstract for presentation at the IMC17 through the website

www.imc-17.com

Symposium L-19 Supramolecular structure Life Sciences

Single-Particle Cryo Electron Microscopy ("cryo-EM") has become a mainstream method for revealing the three-dimensional structure of Biological Complexes. The first structures of icosahedral virus capsids at a resolution level of 4Å and better have been published. Much biological information at the 10Å resolution, however, remains to be revealed especially where conformational changes reveal the functioning of the biological machinery. Methodological developments are underway to be able to image biological complexes and their interactions as a sequence of 3D structures at resolution levels of ~3Å. These developments may make "4D cryo-EM" the instrument of choice for studying the structure-function relation of biological complexes. (The interests here may overlap with those of symposia: L-11; L-12; L-15; L-20; L-21; I-16). Topics of interest include, but are not limited to the following:

- * Structures of biological systems revealed by Single-Particle cryo-EM
- * Single-Particle Methodology developments
- * Conformational changes in Biological Machines
- * Vitreous-ice specimen preparation techniques
- * Cryo-negative stain approaches
- * Cryo-EM studies of (helical) fiber structures
- * 4D cryo-EM

Chairpersons

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Invited speakers:

Niko Grigorieff, Brandeis, USA
Wah Chiu, Baylor College of Medicine,
Houston, USA

IMPORTANT DATES

Abstract deadline:
April 15, 2010

Abstract acceptance:
June 5, 2010

Early registration:
July 15, 2010

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and Microanalysis



Under the auspices of the
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Societies for Microscopy

IFSM

2010

Rio de Janeiro
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