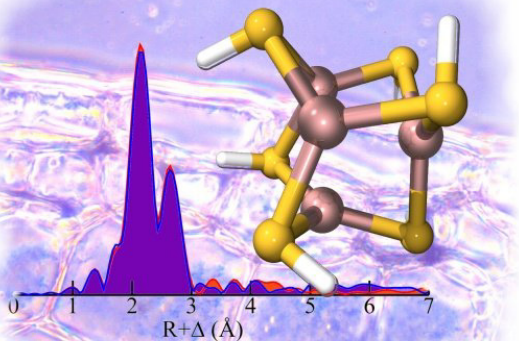


Frontiers in Bio-Metals: Probing Metal Ions in Biology with X-ray Absorption Spectroscopy

University of Saskatchewan,
Saskatoon, Saskatchewan, Canada

May 11, 2005

<http://www.lightsource.ca/bio-metals>



A workshop showcasing X-ray absorption spectroscopy applications to study metals in biology, from isolated proteins to intact tissues and organs. Come and find out how this synchrotron technique might benefit your research or research in your field, from biochemistry to biomedicine. No previous knowledge of the technique assumed – introductory presentations will be included.

This workshop is in support of a proposed new beamline facility for X-ray Absorption Spectroscopy at the Canadian Light Source, tailored for biochemical and biomedical studies.

Feasibility Questions: Submit a scientific question for a feasibility study! Selected assessments will be presented at the workshop, indicating how the proposed beamline facility could help answer the question.

Invited Speakers:

Ninian J. Blackburn (Oregon Graduate Institute)

X-ray Absorption Spectroscopy as a Probe of Active Site Structure in Copper Enzymes and Copper Chaperones

Graham N. George (University of Saskatchewan)

Introduction to Studies of Metals in Intact Tissues using X-ray Absorption Spectroscopy

Britt Hedman (Stanford Synchrotron Radiation Laboratory)

X-ray Absorption Spectroscopy of Biological Molecules in Single Crystals

Peter A. Lay (University of Sydney)

Biomedical Applications of X-ray Microscopy and X-ray Absorption Spectroscopy

James E. Penner-Hahn (University of Michigan)

Characterization of "Spectroscopically Challenged" Metals: Zinc in Biological Systems

Ingrid J. Pickering (University of Saskatchewan)

X-ray Absorption Spectroscopy Imaging of Biological Systems: Localization of Chemical Species in vivo

Robert A. Scott (University of Georgia)

High-throughput X-ray Absorption Spectroscopy for Metalloproteomics

Organizing Committee: Ingrid Pickering, Graham George, Helen Nichol (University of Saskatchewan); Martin Stillman (University of Western Ontario); Farideh Jalilehvand (University of Calgary); Emil Hallin (Canadian Light Source)

This workshop is supported by the Canadian Light Source
and by the Saskatchewan Health Research Foundation

For more information and to register: www.lightsource.ca/bio-metals



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