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**CIHR STRATEGIC TRAINING PROGRAMS**  
***International Symposium on***  
**PROTEINS: STRUCTURE, FOLDING, AND DISEASE**  
University of Toronto, Medical Sciences Building  
Room 3154, 1 King's College Circle, Toronto, Ontario  
**June 3-4, 2004**

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**All members of the biomedical community welcome.**  
**No registration required.**

**PROGRAM**

**Thursday, June 3, 2004**

- 8:00 a.m.      **Continental breakfast available** – All attendees welcome.  
Ruth Kurdyak Medical Alumni Lounge, 3<sup>rd</sup> Floor, Medical Sciences  
Building.
- 8:30 a.m.      **Welcoming Remarks**  
**Charles Deber**, *Hospital for Sick Children & University of Toronto*  
**Symposium Chair**
- SESSION I**      **Chair: Reinhart Reithmeier**, *University of Toronto*
- 8:45 a.m.      **Donald Engelman**, *Yale University*  
Folding and evolution of membrane proteins
- 9:30 a.m.      **James Bowie**, *UCLA*  
From membrane protein structure & energetics to an understanding of  
disease
- 10:15 a.m.      Coffee break
- 10:45 a.m.      **Julie Forman-Kay**, *Hosp. for Sick Children & University of Toronto*  
NMR studies of disordered proteins: Insight into protein folding and  
molecular recognition
- 11:30 a.m. –  
12:15 p.m.      **Mark Sansom**, *Oxford University*  
Simulation studies of membrane proteins
- 12:30 –  
2:00 p.m.      **SYMPOSIUM LUNCH** - All attendees welcome  
Ruth Kurdyak Medical Alumni Lounge, 3<sup>rd</sup> Floor, Medical Sciences  
Building

## **SESSION II      TRAINEES' PRESENTATIONS**

**Thursday afternoon, June 3**

**Chair: Christine Bear, Hosp. for Sick Children & Univ. of Toronto**

- 2:00 p.m.      **Ahmed El Zoeiby, PDF (Russell Bishop, Supervisor)**  
Structure and function of an endotoxin-modifying enzyme
- 2:25 p.m.      **Peter Hwang, PhD student (Lewis Kay, Supervisor)**  
The integral membrane enzyme PagP alternates between two dynamically distinct states
- 2:50 p.m.      **Hania Wehbi, PDF (Charles Deber, Supervisor)**  
NMR investigation of a transmembrane helical hairpin segment from CFTR
- 3:15 p.m.      **Sean Reichheld, PhD Student (Alan Davidson, Supervisor)**  
A novel mechanism of interdomain collaboration in the drug-binding activity of the Tetracycline Repressor
- 3:40 p.m.      **Yulia Tsitrin, PhD Student (Walid Houry, Supervisor)**  
Structural aspects of the ClpX chaperone functional cycle
- 4:05 –  
4:30 pm      **Minghua Wang, PDF (David Hampson, Supervisor)**  
G-protein coupled metabotropic glutamate receptors as targets for drug design

## **Friday, June 4, 2004**

- 8:00 a.m.      **Continental breakfast available** – All attendees welcome.  
Ruth Kurdyak Medical Alumni Lounge, 3<sup>rd</sup> Floor, M.S.B.

## **SESSION III      Chair: Walid Houry, University of Toronto**

- 8:45 a.m.      **Chris Dobson, University of Cambridge**  
Protein misfolding and its links with human disease
- 9:30 a.m.      **Michael Hecht, Princeton University**  
*De novo* proteins from designed combinatorial libraries: Implications for protein folding and misfolding
- 10:15 a.m.      Coffee break
- 10:45 a.m.      **David Williams, University of Toronto**  
Calnexin and calreticulin: Glycoprotein folding machines of the ER
- 11:30 a.m.      **Ulrich Hartl, Max Planck Institute of Biochemistry**  
Chaperone-assisted protein folding
- 12:15 p.m.      **Closing Remarks**  
**Charles Deber, Symposium Chair**

*Sponsored by:*  
Canadian Institutes of Health Research  
Strategic Training Program in the Structural Biology of Membrane  
Proteins Linked to Disease; *and*  
Strategic Training Program in Protein Folding: Principles and Disease

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*and by:*  
The Department of Biochemistry, and the Department of Pharmaceutical Sciences, University of Toronto