

Previous lectures

High-hanging fruit worth the risk –Seeing the atoms in human membrane proteins



Professor So Iwata
Imperial College, London

Thursday 18th September 2008 - 6.30pm

The University of Melbourne
School of Physics
Laby Theatre

Professor So Iwata is currently the David Blow Professor of Biophysics at Imperial College, London and Professor of the Graduate School of Medicine, Kyoto University, Japan.

The results of various genome projects have shown that up to 30% of human proteins occur in cell membranes. Membrane proteins play crucial roles in biology and disease. Over 50% of drugs target membrane proteins. In spite of the abundance and importance of membrane proteins there are only 150 unique membrane protein structures known. To address the bottlenecks preventing the ability to see the structure of membrane proteins, Professor Iwata has recently started the “ERATO human receptor crystallography project” supported by the Japanese Science and Technology Agency and the Wellcome Trust.

He is setting-up a facility at the new synchrotron in the UK, Diamond. In this talk he will explain how we will see human membrane proteins at the level of single atoms using these new facilities. He will also discuss the impact of this work on the biological sciences, pharmacology and medicine.

Podcast

Avian Influenza and the emergence of Influenza Pandemics

2008 Public Lecture Series

Written by Administrator

Tuesday, 01 January 2008 22:00 - Last Updated Tuesday, 15 March 2011 12:09



Podcast

Structures in a Flash!



X-ray Lasers, Exploding Molecules and Biological Insights
Professor Janos Hajdu

Was held on

Friday, 8th February 2008,

The University of Melbourne

Professor Janos Hajdu holds a professorship in Molecular Biophysics at Uppsala University, Sweden and

He is world-renowned for his studies in structural biology and is now exploring new avenues for studies and experiments.