Biocenter Oulu Workshop

Third Biocenter Oulu Workshop on Enzymes

Title: Structural enzymology: Experimental and theoretical approaches
Duration: 2 days
Date: Thursday, November 29 and Friday, November 30, 2007
Place: University of Oulu, Linnanmaa, L10
Hosts: André Juffer and Rik Wierenga

Day 1	Lecturer	Title
09.45 - 10.00h	**Opening words**	
10.00 - 11.00h	*Keynote lecture:* Mårten Wikström, Helsinki, Finland	The importance of proton wires for cytochrome oxidase
11.00 - 12.00h	*Keynote lecture:* Noam Agmon, Jerusalem, Israel	Switchable proton escape from a proton-wire within green fluorescence protein
12.00 - 13.00h	*Lunch*	
13.00 - 13.45h	*Lecture* Tamo Fukamizo, Nara, Japan	Enzymology of glycosyl hydrolases: chitinase and chitosanase
13.45 – 14:30h	*Lecture* Gunter Schneider, Stockholm, Sweden	Structural enzymology of the biosynthesis of polyketide antibiotics
14:30 – 15:00h	*Lecture* Petri Pihko, Helsinki, Finland.	Enolizing enzymes and their mimics
15.00 - 15.30h	*Coffee break*	
15.30 - 16.00h	Satyan Sharma, Oulu, Finland	Quantum simulation of the reaction mechanism of prostatic acid phosphatase.
16.00 - 16.30h	Antti Haapalainen, Oulu, Finland	The reaction mechanism of T2 thiolase

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DAY 2	Lecturer	Title
09.00 – 09:45h	*Lecture* Antti Poso, Kuopio, Finland	Prediction of enzyme inhibitors and substrates: molecular modeling and chemoinformatics
09.45 – 10:30h	*Lecture* Santosh Panjikar, EMBL Hamburg, Germany	Auto-Rickshaw: An online automated crystal structure determination platform (BIOXHIT)
10.30 - 11.00h	*Coffee break*	
11.00 - 11.45h	*Lecture* Eugene Krissinel, EBI, Hinxton, UK	Web-tools for protein structure analysis from MSD@EBI (BIOXHIT)
11.45- 12.30h	*Lecture* Kimmo Mattila, CSC, Espoo, Finland	CSC's tools for structural enzymology.
12.30 - 13.30h	*Lunch*	
13.30 - 16.00h	*Tutorials:* 1. Auto-Rickshaw 2. Web-tools for protein structure analysis from MSD@EBI 3. The structural biology toolkit of CSC.	Biochemistry Linux class room ATK Linux class room or in L10.

The precise organization of the tutorials will be decided later. The participants can specify which tutorial they would like to follow when registrating for the meeting.