

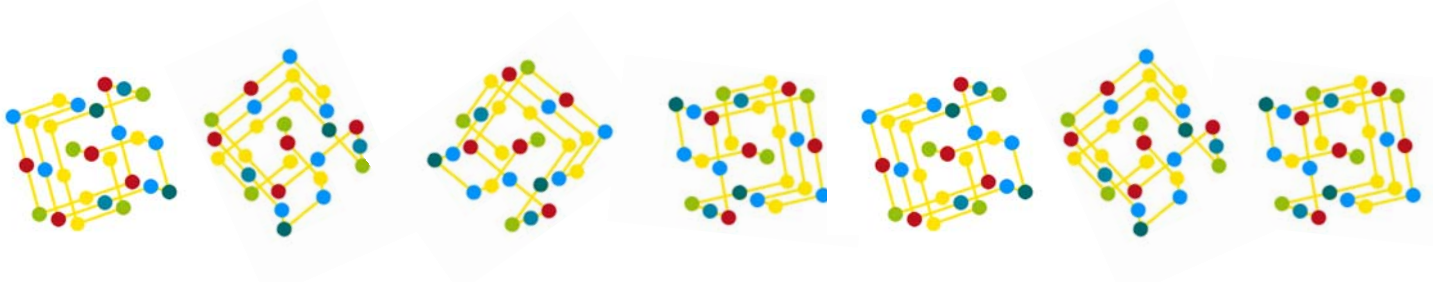
## Protein Structural Annotation 6-7 May 2008

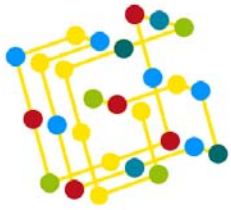
### *About this Course:*

This course will provide instruction and hands-on training in protein structural annotation using several public databases and bioinformatics tools freely available on the internet.

Topics include: searching structures in the PDB and their schematic display in PDBSum; exploring the structural classification of proteins in the CATH and SCOP databases; examining the 3-D orientation of catalytic residues using Catalytic Site Atlas; linking functional annotation to structures using ProFunc and InterPro; and investigating domain-domain interactions using iPFAM.

*Course requirements:* a basic understanding of protein structures and a familiarity with the use of biological databases would be an advantage.





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<i>Program Contents</i>	Topic	Concepts & resources covered
<b>Day 1</b>		
9:00-9:15	Welcome and Orientation	Vicky Schneider
9:15-9:30	Introduction	Jennifer McDowall
<i>Finding your structure</i>		
9:30-10:30	Macromolecular Structural Database	TBA
<i>coffee break (10:30-10:45)</i>		
10:45-12:15	<i>Hands on MSD</i>	TBA
<i>Lunch (12:15-13:00)</i>		
<i>Annotating your structure</i>		
13:30-14:00	Lecture on : PBDsum	Roman Laskowski
14:00-15:45	ProFunc Lecture & <i>Hands On</i>	James Watson
<i>Tea break (15:45-16:00)</i>		
16:00-17:00	Lecture on CATH	Christine Orengo
<b>Day 2</b>		
<i>Classifying your structure</i>		
09:00-10:00	Lecture on CSA	Asad Rahman
10:00-10:30	<i>Hands on CSA</i>	Asad Rahman
<i>coffee break (10:30-10:45)</i>		
10:45-11:45	iPFAM lecture & <i>Hands on</i>	Rob Finn
11:15-12:15	Lecture on SCOP	Alexey Murzin
<i>Lunch (12:15-13:00)</i>		
<i>Exploring your structure</i>		
13:30-14:30	Lecture on: InterPro	Jennifer McDowall
14:30-15:30	<i>Hands on InterPro</i>	Jennifer McDowall
<i>Tea break (15:45-16:00)</i>		
15:45-16:30	<i>Hands on InterPro continues</i>	Jennifer McDowall
16:30-17:10	synopsis	ALL