## Protein Structure, Function and Bioinformatics Università di Bologna, February 2014

The goal of the course is to discuss with the students the basic principles of protein structure, and function; and the kinds of data available and how to access and analyse them.

U U	First Session Second Session	Principles of Protein Structure (including ligation and conformational change) Protein Function Protein Structure Prediction – Practical
ě	First Session Second Session	Thermodynamics and Kinetics Enzyme Mechanisms and Drug Design Databases and Software – practical
ě	First Session Second Session	Protein Evolution How do Proteins Acquire Novel Functions? (Including directed evolution and protein design) Protein Structure Prediction – Practical
v	First Session Second Session	Metabolic Pathways and Their Evolution Regulation
	First Session Second Session	Putting it all together Exam