



Palacký University
Olomouc



CATRIN
Czech Advanced
Technology and Research
Institute

**VSB TECHNICAL
UNIVERSITY
OF OSTRAVA**

**IT4INNOVATIONS
NATIONAL SUPERCOMPUTING
CENTER**

COST 21101 “COSY” Training School

Molecular descriptions of complex biosystems

IT4Innovations, Ostrava, Czechia,

8th-9th September 2025

Program:

Date	Start time	Topic	Lead by
08/09/2025	09:00	Welcome & Introduction	Organising Team
	09:15	HPC Resources in Ostrava: Introduction, Connection & Troubleshooting	Petra Čechová
	10:30	Coffee break	
	11:00	MD In Theory: Intro Overview	Michal Otyepka
	11:30	MD In Practice: Intro Overview	Markéta Paloncýová
	12:00	MD In CG: Intro Overview	Paulo C. T. Souza
	12:30	Lunch break	
	14:00	Nucleic Acids: Theory	Pavel Banáš
	14:30	Nucleic Acids: System setup and analysis	Petra Kührová
	15:30	Lipids: Theory	Markéta Paloncýová
	16:00	Coffee break	
	16:30	Lipids: System setup and analysis	Petra Čechová
	17:45	Carbon nanomaterials: Theory, system setup and analysis	Markéta Paloncýová
	19:00	End of the day	

09/09/2025	08:30	Complex system 1: All atom assembly	Markéta Paloncýová
	10:30	Coffee break	
	11:00	Complex system 2: Coarse grained assembly	Mariana Valério
	13:00	Lunch	
	14:30	Q&A + IT4I tour	Organising Team
	15:30	Coffee break	
	16:00	End of the Training School	

