

Structural Bioinformatics 2021/22

Computer Science

Day: M = Monday, T = Thursday

Teacher: DP = Damiano Piovesan, AM = Alexander Monzon

Type: T = Theory, P = Practical (bring your laptop)

#	Date	Day	Teacher	Type	Topic
1	28 Feb	M	DP	T	Intro
2	3 Mar	T	DP	T	Chemical bonds
3	7	M	DP	T	Amino acids
4	10	T	DP	T	Protein folding
5	14	M	DP	T	Crystallography
6	17	T	AM	P	Structural data and PyMol visualization
7	21	M	AM	P	Manipulation of PDB structures with BioPython
8	24	T	AM	P	Distance matrix and Ramachandran's plot with BioPython
9	28	M	AM	P	Midterm I
10	31	T	DP	T	Structural superposition and alignments
11	4 Apr	M	DP	T	Structural evolution
12	7	T	DP	T	Structural classification
13	11	M	DP	T	Tandem repeat proteins
14	14	T	DP	T	Intrinsically disordered proteins
15	21	T	DP	T	Phase separation
16	28	T	AM	P	Superposition with BioPython and PyMol scripting
17	2 May	M	AM	P	Disorder prediction
18	9	M	AM	P	Midterm II
19	12	T	DP	T	Molecular dynamics
20	16	M	DP	T	Comparative modeling
21	19	T	DP	T	Statistical potentials
22	23	M	DP	T	Ab initio structure prediction
23	30	T	DP	P	AlphaFold Colab
24	6 June	M	DP	P	Final project specifications