



PC18 -001 FEBS Lab Exe programme

Date	Name of lab exercise	Time				
		14:00-14:50	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00
Monday June 11	Conventional techniques and their modifications, crystallization of own proteins [J. Mesters]	3	4	1	2	5
	"The secret life of your crystallization drop"? [B. Rupp]	4	3	2	1	
	Crystallization of membrane proteins in lipidic systems [M. Caffrey]	1 + 2		3 + 4 + 5		
	Observation of crystal growth / Seeding [T. Bergfors]	5				
	Crystallization under oil [L. Govada]		5			
	<i>Optional exercise:</i> Conventional techniques and crystallization of own proteins [J. Mesters, E. Urbániková]	for selected proteins				
	<i>Optional exercise:</i> Evaluation of crystallization trials with the UVEX microscope [J. Gordon]	according to own interest				
<i>Optional exercise:</i> "Random" Microseeding [P. Shaw Stewart]	according to own interest					
Tuesday June 12	Observation of crystal growth / Seeding [T. Bergfors]	1	2	3	4	
	Capillary protein crystallization using counter-diffusion techniques [J. Gavira]			1		2
	"Random" Microseeding [P. Shaw Stewart]	4	3	5	2	
	Crystallization under oil [L. Govada]	2	4		1	3
	Publication of scientific results with emphasis on crystallization communications [H. Einspahr]		1	2	5	
	From the biomolecule solution to its 3D structure in a microfluidic chip [C. Sauter]	3	5			
	"The secret life of your crystallization drop"? [B. Rupp]	5	according to own interest			
	<i>Optional:</i> Conventional techniques and crystallization of own proteins [J. Mesters, E. Urbániková]	for selected proteins				
	<i>Optional:</i> Evaluation of crystallization trials with the UVEX microscope [J. Gordon]	according to own interest				
	<i>Optional:</i> Dynamic light scattering [K. Dierks, Ch. Betzel]	according to own interest		4	3	5



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Thursday June 14	Dynamic light scattering [K. Dierks]	1	2	according to own interest		
	Trace Fluorescent Labeling for Protein Crystallization Screening [M. Pusey]		1		2	
	Capillary protein crystallization using counter-diffusion techniques [J. Gavira]		5		4	3
	From the biomolecule solution to its 3D structure in a microfluidic chip [C. Sauter]	2	4	1		
	Practical Considerations for the Crystallization of Protein-Nucleic Acid Complexes [Ch. Biertümpfel]	3		4	5	
	Publication of scientific results with emphasis on crystallization communications [H. Einspahr]	4		3		
	Practical Crystallography – how to perform a diffraction experiment? [V. Smith, S. Freisz]	5	3	2	1	4
	<i>Optional exercise:</i> Conventional techniques and crystallization of own proteins [J. Mesters, E. Urbániková]	for selected proteins				
	<i>Optional exercise:</i> Single particle cryo-EM [E. Cunha]	according to own interest				
	<i>Optional exercise:</i> Methods for Controlling the Size and the Shape of Protein Crystals [A. Moreno]	according to own interest				
Friday June 15	Trace Fluorescent Labeling and Low Cost Fluorescent Imaging [M. Pusey, C. Tarver]	3		4	5	
	Practical Considerations for the Crystallization of Protein-Nucleic Acid Complexes [Ch. Biertümpfel]		1		2	
	Single particle cryo-EM [E. Cunha]	1	2	3	4	5
	Conventional techniques and crystallization of own proteins [J. Mesters, E. Urbániková]	for selected proteins				
	Methods for Controlling the Size and the Shape of Protein Crystals [A. Moreno]	5	4	1	3	2
	<i>Optional exercise:</i> How to perform a diffraction experiment? [V. Smith]	according to own interest				
Saturday June 16	Crystal observation, testing, handling, mounting etc. [J. Brynda]	1 + 2 + 3 + 4 + 5 + 6				