

Workshop on Sub-Tomogram Averaging with Dynamo

August 23-25, 2017

Venue: Pharmazentrum, Klingenbergstrasse, 50/70, Basel

Emergency cellphone: +41797141445 (Karen)



BIOZENTRUM

Universität Basel
The Center for
Molecular Life Sciences

www.dynamo-em.org



	Room
Lectures	Lecture Hall 2
Lectures	PC room U1075
Practicals	PC room U1075

Day 1 - Wednesday August 23, 2017 Introduction

9:00	Registration, optional software installation / coffee in the Pharmazentrum hall	
10:00	Welcome, organization and workshop presentation	Henning Stahlberg
10:15	Overview of subtomogram averaging	Misha Kudryashev
11:00	Dynamo pipeline	Daniel Castaño-Díez
12:00	Lunch	
14:00	Practical section 1: Dynamo: from tomogram to structure in 2 hours	
15:30	coffee break	
16:00	Continuation of practical 1	
18:30	Small dinner in-house / Gallery	
19:30	Flash presentations of participants: <i>Each talk should be max 2 slides, 2 minutes + 2 questions</i> <i>Talk about your background, home institute, scientific focus, expectations</i>	

Day 2 - Thursday August 24, 2017 Data Management / Classification

09:00	Practical 2: Data management with Dynamo Catalogue and particle picking	
10:30	coffee break	
11:00	Practical 3: Particle Picking from defined Geometries	
	Membranes, filaments, vesicles	
12:15	Group picture	
12:30	Lunch	
	Guest Lectures :	
14:00	Florian Schur, EMBL Heidelberg <i>"Towards near-atomic resolutions with subtomogram averaging"</i>	
15:00	Dmitry Tegunov, MPI for Biophysical Chemistry <i>Cryo-Electron Tomography at Full Warp"</i>	
15:45	coffee break	
16:00	Practical 4: Advanced features of data analysis	
19:00	Workshop Dinner at the Teufelhof (Leonhardsgraben 47-49, Basel)	

9:00	Alex Noble <i>"Tomography is Useful for Everyone! Routine Single Particle CryoEM Sample and Grid Characterization"</i>
09:45	Misha Kudryashev <i>"Advanced features of Subtomogram averaging and Classification"</i>
10:30	coffee break
11:00	Practical 5: Classification PCA and Multireference Analysis
12:30	Lunch
14:00	Dynamo Freestyle Session till 17.30 potential to play with advanced features, ask questions and work on own data

Scientific Organizers:

Daniel Castaño-Díez

BIO-EM Lab, Biozentrum, Basel, Switzerland

Misha Kudryashev

MPI for Biophysics, Frankfurt, Germany

Henning Stahlberg

C-CINA, Biozentrum, Basel, Switzerland

Instructors:

Alex Noble

New York Structural Biological Center, USA

Stefano Scaramuzza

C-CINA, Biozentrum, Basel, Switzerland

Paula Pérez-Navarro

C-CINA, Biozentrum, Basel, Switzerland

Ricardo Adaixo

C-CINA, Biozentrum, Basel, Switzerland

Event Organizers:

Karen Bergmann

Biozentrum, Basel, Switzerland

Dunja Svorc

Biozentrum, Basel, Switzerland

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