

## S2C2 CryoEM Image Processing Workshop Agenda

### Day 1: Monday, November 18, 2019

Time	Title	Speaker
9:00 AM -10:45 AM	General principles of cryoEM 3D reconstructions	David DeRosier
11:00 AM -12:00 PM	Single-particle processing workflow	Jose Maria Carazo
12:00 PM - 1:00 PM	Lunch	
1:00 PM - 2:00 PM	Image Processing Principles	Carlos O. Sanchez-Sorzano
2:00 PM - 5:00 PM	Practical 1: SCIPION / image preprocessing (Gain, Movie alignment, CTF, particle picking).  (SCIPION use will be explained while using SCIPION. The theory behind the methods will be also presented while using them)	SCIPION TEAM

### Day 2: Tuesday, November 19, 2019

Time	Title	Speaker
9:00 AM -10:00 AM	Dealing with heterogeneity in single-particle data / examples	Georgios Skiniotis
10:15 AM -12:00 AM	Practical 2: SCIPION / 2D classification and initial volume	SCIPION TEAM
12:00 PM - 1:00 PM	Lunch provided by Thermofisher	
1:00 PM - 5:00 PM	Practical 3: SCIPION / 3D Reconstruction and Classification	SCIPION TEAM

### Day 3: Wednesday, November 20, 2019

Time	Title	Speaker
9:00 AM -10:00 AM	Map quality measures and validation	Jose Maria Carazo
10:15 AM - 12:00 PM	Practical 4: SCIPION / Map quality and map validation	SCIPION TEAM
12:00 PM - 1:30 PM	Lunch & Tour of Bldg. 006 & 057	
1:30 PM - 2:00 PM	Model building and map validation	Greg Pintilie
2:00 PM - 4:00 PM	Practical 5: SCIPION / Hybrid modelling	SCIPION TEAM
4:00 PM - 5:00 PM	Round table: Doubts, questions, steps and processing decisions that have generated doubts.  (Objective: Everybody leaving the course with a clear idea of the key steps of the process)	ALL

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