



Open morning lectures and afternoon tutorials (max 30 people, sign up by the 24th of August)

MORNINGS 9:00-12:00 (Location: Air and Fire, Milky Way lecture rooms, Tomtebodavägen 23, Solna 17165)	AFTERNOONS (practicals) 13:30-17:00 (Location: Air and Fire)
<p>Monday 23 (Air and Fire)</p> <ul style="list-style-type: none"> - 8:30-9:00 Registration and poster hanging - 9:00-9:15 SciLifeLab presentation Alice Sollazzo, <i>SciLifeLab, Stockholm</i> - 9:15-10:15 Opening research talk: TBA Elena Orlova, <i>Birkbeck College, ISMB, London</i> - 10:15-10:30 Coffee break and poster mingling - 10:30-11:30 Cryo-EM sample preparation Michael Hall, <i>Swedish Cryo-EM Facility, Umeå</i> - 11:30-12:30 TEM Concepts, Image Formation and Data Acquisition Maryam Khoshouei, <i>Novartis</i> 	<p>(Air and Fire)</p> <ul style="list-style-type: none"> - Visit to the microscopes at SciLife (2 groups) - Coffee break around 15:00 - Computers setup and configuration
<p>Tuesday 24 (Air and Fire)</p> <ul style="list-style-type: none"> - 9:00-10:00 “Research Talk 2: TBA“ Maryam Khoshouei, <i>Novartis</i> - 10:00-10:15 Coffee break and poster mingling - 10:15-11:15 “Basic Image Processing concepts: Fourier, filters, CTF” Elena Orlova, <i>Birkbeck College, ISMB, London</i> - 11:15-12:15 “Particle selection, alignment and classification” J. M. de la Rosa, <i>Swedish Cryo-EM Facility, Stockholm</i> 	<p>(Air and Fire)</p> <ul style="list-style-type: none"> - Practicals I: Movie alignment, CTF estimation, particle picking and 2D classification - Coffee break around 15:00
<p>Wednesday 25 (Air and Fire)</p> <ul style="list-style-type: none"> - 9:00-10:00 “Computational aspects...” IT experts at Swedish and Danish cryo-EM Facilities - 10:00-10:15 Coffee break and poster mingling - 10:15-11:15 3D initial volume, classification and refinement Björn Forsberg, <i>SciLifeLab, KTH, Stockholm</i> - 11:15-12:15 3D volume multi-body reconstruction Julian Conrad, <i>Swedish Cryo-EM Facility, Stockholm</i> 	<p>(Andromeda and Milky Way)</p> <ul style="list-style-type: none"> - Practical II: Initial volume, 3D classification and refinement - Coffee break around 15:00 - COURSE DINNER around 19:00
<p>Thursday 26 (Air and Fire)</p> <ul style="list-style-type: none"> - 9:00-10:00 “TBA” Martin Svenda, <i>Uppsala University</i> - 10:00-10:15 Coffee break and poster mingling - 10:15-11:15 Model building and fitting Hemanth Kumar, <i>Uppsala University</i> - 11:15-12:15 Introduction to helical processing Selvaraj Muniyandi, <i>HiLife, Helsinki University</i> 	<p>(Air and Fire)</p> <ul style="list-style-type: none"> - Helical hands-on tutorial with Spring and Relion - Coffee break around 15:00
<p>Friday 27 (Andromeda and Milky Way)</p> <ul style="list-style-type: none"> - 9:00-10:00 Characterizing functional states of a model ligand-gated ion channel by cryo-EM Urška Rovsnič, <i>SciLifeLab, Stockholm University</i> - 10:00-10:15 Coffee break and poster mingling - 10:15-11:15 Diversity of Photosystem I Annemarie Perez-Boerema, <i>SciLifeLab, Stockholm University</i> - 11:15-12:15 AAA+ machineries for protein degradation Marta Carroni, <i>Swedish Cryo-EM Facility, Stockholm</i> 	<p>(Andromeda and Milky Way)</p> <ul style="list-style-type: none"> - Final remarks and goodbyes