



## ***2nd cryoNET course on advanced single particle cryoEM analysis***

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Dates: 20-24 May 2024

Venue:  
SciLifeLab, Solna

### Organising committee

Karin Walldén, Stockholm University	mobile: +46 739936277
Marta Carroni, Stockholm University	mobile: +46 720181462
Thomas Boesen, Aarhus University	mobile: +45 2899 7699
Jesper Lykkegaard Karlsen, Aarhus University	mobile: +45 5090 6203
Andreas Bøggild, Aarhus University	mobile: +45 2372 1981
Tillmann Pape, University of Copenhagen	mobile: +45 9350 9536

### Tutors assisting organizers and speakers during the course

Mathieu Coignon, Stockholm University  
Daniel Larsson, Uppsala University  
Michael Hall, Umeå University  
Dustin Morado, Stockholm University  
Piotr Draczkowski, Stockholm University  
Tim Schulte, Stockholm University  
Stefan Fleischmann, Stockholm University

# Course program

## 2nd cryoNET course on advanced single particle cryoEM analysis

20-24 May 2023

	<b>Monday, 20 May</b>	<b>Subject</b>	<b>Venue</b>
8h30	<i>Coffee/tea, poster hang-up &amp; name tags</i>		<i>Air &amp; Fire</i>
9h00	<b>Welcome by organizers</b>	Opening remarks & practicalities	<i>Air &amp; Fire</i>
9h05	<b>Katerina Naydenova</b> (MRC Laboratory of Molecular Biology)	<i>"Microscopy physics and image formation"</i>	<i>Air &amp; Fire</i>
10h20	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
10h50	<b>Katerina Naydenova</b> (MRC Laboratory of Molecular Biology)	<i>"Specimen preparation for cryoEM"</i>	<i>Air &amp; Fire</i>
11h45	<b>Ben Apker</b> MiTeGen	<i>"Tools and instruments for cryo-EM sample preparation" -Zoom talk</i>	<i>Air &amp; Fire</i>
12h30	<i>Lunch &amp; coffee/tea break</i>		<i>Air &amp; Fire</i>
13h30	<b>Oliver Clarke</b> (Columbia University Medical Center)	<i>"Dealing with difficult datasets: understanding and overcoming heterogeneity in cryoEM data using cryoSPARC"</i>	<i>Lunch room G2 or G7</i>
	<b>Oliver Clarke</b> (Columbia University Medical Center)	<i>Practical session</i>	
15h30	<i>Coffee/tea &amp; cake break</i>		<i>Lunch room G2 or G7</i>
16h00	<b>Oliver Clarke</b> (Columbia University Medical Center)	<i>Practical session</i>	<i>Lunch room G2 or G7</i>
17h00			
19h00	<b><i>Speaker/organizer/tutors dinner</i></b>  <i>Course participants dine on their own</i>	Aifur- Västerlånggatan 68	

	<b>Tuesday, 21 May</b>	<b>Subject</b>	<b>Venue</b>
<b>9h00</b>	<b>Ambroise Desfosses</b> IBS, Grenoble	<i>Helical procesing</i>	<i>Air &amp; Fire</i>
<b>10h00</b>	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>10h30</b>	<b>Ambroise Desfosses</b> IBS, Grenoble	<i>Helical procesing</i>	<i>Air &amp; Fire</i>
<b>12h00</b>	<b>Group photo/ Tour of cryoEM facilities</b>		<i>Air &amp; Fire</i>
<b>12h30</b>	<i>Lunch &amp; coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>13h30</b>	<b>Björn Forsberg</b> (University of Oxford)	<i>Relion theory: "Practical perspectives and tools for cryo-EM analysis"</i>	<i>Lunch room G7</i>
	<i>Coffee/tea &amp; cake break (when it suits in the practical session)</i>		<i>Lunch room G7</i>
	<b>Björn Forsberg</b> (University of Oxford)	<i>Practical session</i>	<i>Lunch room G7</i>
<b>17h00</b>	<b>Poster session</b> <i>with snacks &amp; drinks</i>		<i>Air &amp; Fire</i>
<b>19h00</b>	<i>Free time</i>		

	<b>Wednesday, 22 May</b>	<b>Subject</b>	<b>Venue</b>
<b>9h00</b>	<b>Rubén Sanchez-Garcia</b> (University of Oxford)	<i>"Map postprocessing with deepEMhancer (and others)"</i>	<i>Air &amp; Fire</i>
<b>10h00</b>	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>10h30</b>	<b>Rubén Sanchez-Garcia</b> (University of Oxford)	<i>Practical session</i>	<i>Air &amp; Fire</i>
<b>11h30</b>	<b>Oliver Raschdorf</b> (Thermo Fisher Scientific)	<i>DDD and other new cool stuff</i>	
<b>12h30</b>	<i>Lunch &amp; coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>13h30</b>	<b>Jack Turner</b> (EMBL's European Bioinformatics Institute)	<i>"EMDB &amp; EMPIAR - Archiving of EM data"</i>	<i>Air &amp; Fire</i>
<b>15h00</b>	<i>Coffee/tea &amp; cake break</i>		<i>Air &amp; Fire</i>
<b>15h30</b>	<b>Jose Miguel de la Rosa Trevin</b> (St. Jude Children's Research Hospital)	<i>EMHub and on-the-fly processing</i>	<i>Air &amp; Fire</i>
<b>16h30</b>	<b>Jose Miguel de la Rosa Trevin</b> (St. Jude Children's Research Hospital)	<i>EMHub and on-the-fly processing</i>	<i>Air &amp; Fire</i>
<b>17h30</b>	<i>Free time / walk to restaurant</i>		
<b>19h00</b>	<i>Course dinner</i>	<i>Ethiostar -Saltmätargatan 19A</i>	
<b>-</b>			
<b>21h30</b>			

	<b>Thursday, 23 May</b>	<b>Subject</b>	<b>Venue</b>
<b>9h00</b>	<b>Bernhard Lohkamp</b> (Karolinska Institutet)	<i>"Cryo-EM model-building with Coot"</i>	<i>Air &amp; Fire</i>
<b>10h00</b>	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>10h30</b>	<b>Bernhard Lohkamp</b> (Karolinska Institutet)	<i>Practical session</i>	<i>Air &amp; Fire</i>
<b>12h00</b>	<i>Lunch &amp; coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>13h00</b>	<b>Brady Johnston</b> (University of Western Australia)	<i>"Blending Proteins: Democratising Access to Beautiful Molecular Landscapes"</i>	<i>Air &amp; Fire</i>
	<i>Short break</i>		
<b>14h00</b>	<b>Brady Johnston</b> (University of Western Australia)	<i>Practical session</i> <i>"Making Movies with Blender and Molecular Nodes"</i>	<i>Air &amp; Fire</i>
<b>15h00</b>	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>15h30</b>	<b>Rishwanth Raghu</b> Princeton University	cryoDRGN	<i>Air &amp; Fire</i>
	<b>Ryan Feathers</b> Princeton University	Practical session <i>"CryoDRGN: Heterogeneous reconstruction for cryo-EM"</i>	<i>Air &amp; Fire</i>
<b>17h30</b>	<b>Poster session</b> <i>with snacks &amp; drinks at the student pub</i>		<i>Air &amp; Fire</i>

	<b>Friday, 24 May</b>	<b>Subject</b>	<b>Venue</b>
<b>9h00</b>	<b>Gerhard Hofer,</b> (Stockholm University)	MicroED	<i>Air &amp; Fire</i>
<b>10h00</b>	<i>Coffee/tea break</i>		<i>Air &amp; Fire</i>
<b>10h30</b>	<b>Gerhard Hofer,</b> (Stockholm University)	MicroED	<i>Air &amp; Fire</i>
<b>12h30</b>	<i>Lunch &amp; coffee/tea</i> <i>Thanks for now &amp; goodbye</i> <i>Poster take-down</i>		<i>Air &amp; Fire</i>

cryo  
NET

*Knut och Alice  
Wallenbergs  
Stiftelse*

 SciLifeLab

novo nordisk  
**fonden**

  
Stockholms  
universitet



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