eBIC BAG Remote User Training for Cryo-ET (TOMO5)



[Date of Training]

Hosted virtually - times are UK local time

[Zoom link]

Organiser(s): Lorna Malone (eBIC)

	Instructo	Day 1 r demonstration, student learning (all groups)
09:30–10:00	Arrival:	Welcome and Intro on virtual platform
10:00–10:50	Session 1-0:	Remote session, ISPyB sample shipping, NoMachine
10:50-11.00	Break	
11.00–12.00	Session 1-1:	Intro to TOMO, manual image acquisition, presets, image shift calibrations, atlas set up
12:00–13:00	Lunch	
13:00–13:45	Session 1-2:	Screening: Atlas inspection, navigation, and record keeping
13:45–14:45	Session 1-3:	Session setup: Target area setup & target refinement
14:45–15:00	Break	
15:00–16:00	Session 1-4:	Collection: Alignments (TOMO), start collection, on-the-fly analysis
		Day 2 Student practise (split into groups)
10:00–11:00	Session 2-0:	Student 1 – Presets, image shift calibrations, atlas set up
11:00–12.00	Session 2-1:	Student 1 – Atlas inspection, target area set-up & target refinement
12:00-13:00	Lunch	
13:00–13:50	Session 3-0:	Student 2 – Presets, image shift calibrations, atlas set up
13:50–14:45	Session 3-1:	Student 2 – Atlas inspection, target area set-up & target refinement
14:45–15:00	Break	
15:00–16:00	Session 4-0:	Students 1&2 – Alignments (TOMO), start collection, on-the-fly analysis
		Day 3
		Student practise (split into groups)
10:00–11:00	Session 5-0:	Student 3 – Presets, image shift calibrations, atlas set up
11:00–11.00	Session 5-0:	Student 3 – Atlas inspection, target area set-up & target refinement
12:00–12:45	Lunch	Student 5 – Alias Inspection, larget area set-up & larget reimement
12:45–13:30	Session 6-0:	Student 4 – Presets, image shift calibrations, atlas set up
13:30–14:15	Session 6-1:	Student 4 – Atlas inspection, target area set-up & target refinement
14:15–15:00	Break	
15:00–16:00	Session 7-0:	Students 3&4 – Alignments (TOMO), start collection, on-the-fly analysis
		End of course

Student timetable

Date	Mon	Tue	Wed	Thu	Fri
Microscope					
Session ID		Session ID	Session ID	Session ID	
Group		Group 1/2/3	Group 1	Group 1	
Instructor		Instructor 1 / 2 / 3	Instructor 1	Instructor 1	
Student controller		-	Student 1 - Student 2	Student 3 - Student 4	
Student observer		All	Student 3 - Student 4	Student 1 - Student 2	
Microscope					
Session ID		Session ID	Session ID	Session ID	
Group		Group 2	Group 2	Group 2	
Instructor		Instructor 2	Instructor 2	Instructor 2	
Student controller		-	Student 5 - Student 6	Student 7 - Student 8	
Student observer		-	Student 7 - Student 8	Student 5 - Student 6	
Microscope					
Session ID		Session ID	Session ID	Session ID	
Group		Group 3	Group 3	Group 3	
Instructor		Instructor 3	Instructor 3	Instructor 3	
Student controller		-	Student 9 - Student 10	Student 11 - Student 12	
Student observer		-	Student 11 - Student 12	1) Student 9 - 2) Student 10	

Demonstration	
Practice and observation (group 1)	
Practice and observation (group 2)	
Practice and observation (group 3)	

eBIC BAG User Training Programme

To improve the efficiency and effectiveness of eBIC BAG user sessions and to help users get the most from their sessions, you have been selected by your BAG coordinator and scheduled for remote BAG user training. This is a 3-day remote session on an eBIC microscope. This is standard operator training and will ensure you have 100% coverage in your knowledge, as well as to equip you for the unique challenges of remote operation, with Local Contact support. For you, we aim to help you get the most from your sessions and for us, we expect you to act as a local knowledge point to assist others in your BAG with their remote sessions.

You will be provided with 1 day of remote demonstration by expert eBIC staff and then over 2 days be given the opportunity to set up remote sessions and troubleshoot any gaps in your knowledge. The schedule presents the course structure, but you will find greater detail in our User Guides which closely represent our training curriculum. This course will be using standard in-house samples prepared by eBIC staff.

Instructions to attendees

- Please download (or update to the latest version) and set up the following prior to the course start:

Microsoft Teams (<u>https://www.microsoft.com/en-gb/microsoft-teams/free</u>) NoMachine (<u>https://www.nomachine.com</u>)

- Please check you know your FedID and can log in to Diamond systems:

https://www.diamond.ac.uk/Users/Experiment-at-Diamond/IT-User-Guide.html https://uas.diamond.ac.uk

- If you need to change you Diamond FedID password: <u>https://access.stfc.ac.uk</u>
- Please refer to the programme and visual timetable to confirm which days you will control the microscope session and on which days you will observe.

- Please confirm prior to your remote visit that you can access and log in to nx-cloud via NoMachine.
 https://www.diamond.ac.uk/dam/jcr:ad94932c-1a9a-4301-b597-21509731a994/NoMachine access check.pdf
- Please download and consult the appropriate user guides for your training session: https://www.diamond.ac.uk/Instruments/Biological-Cryo-Imaging/eBIC/User-Guide/User-guide-downloads.html

Quick remote access guide: Remote access and analysis: Single particle analysis: Tomography: Relevant for checking your NoMachine access User guide (applicable to all user sessions) EPU user guide Tomo5 user guide

- You will be sent a virtual meeting invitation prior to the start of your course.
- Please note that we will be recording the sessions for training purposes. *Disclaimer* It may be the case that your screen name or video is captured on the recording if you strongly prefer not to be recorded, please contact <u>lorna.malone@diamond.ac.uk</u> to advise of your preference in advance of your session.
- You will be asked to provide feedback on the course after attending and we would really appreciate your response.
- We ask everyone to keep their cameras on throughout the course to enable better interaction.
- This course aims to be informal and inclusive, so please feel free to interact with the instructors the same as you would at an in-person course