

# **SSX Hands-On Workshop at MicroMAX**

**Monday 14 September 2026 - Wednesday 16 September 2026**

**MicroMAX**

## **Scientific Programme**

Workshop Program

## **Monday, 14 September**

### **SSX Ecosystem**

**11:30–13:00 Registration and Lunch**

**13:00–13:15 Welcome and Workshop Introduction**

### **Session I – Infrastructures for Protein Crystallography (Part 1)**

Chair: tba

13:20-13:50 Preben Morth, DTU Bioengineering

Catalyse4X, A national facility providing easy access to rapid experimental structural biology.

13:50-14:20 Martin Moche, Karolinska Institutet, Protein Science Facility

14:20-14:50 Coffee break

### **Session II – Serial Crystallography at MicroMAX**

Chair: tba

14:50-15:10 Dean Lang, Ambient experiment capabilities at MicroMAX

15:10-15:30 Jack Stubbs, Micro-crystallization

15:30-15:50 Monika Bjecic, SX sample preparation and delivery

15:50-16:10 Cecilia Casadei, Introduction to SX data processing including real-time indicators

16:10-16:30 Participants' flash presentations (2–3 minutes each)

### **Session III - MAV IV tour**

16:30-17:00

## Tuesday, 15 September

### Hands-on SSX Data Collection at MicroMAX

09:00–12:00 Practical Session I - Sample preparation and data collection

10:20–10:40 Coffee break

12:00–13:00 Lunch

13:00–16:30 Practical Session II - Sample preparation and data collection

14:50–15:10 Coffee break

## Wednesday, 16 September

### Session I - Infrastructure for Protein Crystallography (Part 2)

09:00-09:30 Wolfgang Knecht

Lund Protein Production Platform (LP3) /Protein Production Sweden (PPS)

### Session II - Hands-on SSX Data processing at MicroMAX

09:30-09:50 Cecilia Casadei

Lecture 1: SX data processing workflows: from detector frames to integrated intensities, optimising parameters and geometry.

09:50-10:20 Cecilia Casadei

Lecture 2: Data reduction, data quality metrics, use of automatised workflows to MR-phasing and basic model refinement, and isomorphous difference map / extrapolated map calculation.

10:20-10:50 Coffee break

10:50-11:50 Practical tutorials

- Tutorial 1 (optional): run MAX IV in-house developed workflows for data reduction.
- Tutorial 2: Apply downstream data processing as described in Lecture 2 on a SX dataset from MicroMAX.
- Examine data from samples brought by participants.

11.50-12:00 Closing discussion and feedback

12:00-13:00 Packed lunch and departure