

KI-MAX IV Exchange Dialogue Day 251127

Meeting notes and document by Claire Lyons (Industrial Relations Office-MAX IV)

Event and Programme

MAX IV experts presented and met with KI researchers to explore how MAX IV's techniques could be used in research done at KI.

<https://news.ki.se/calendar/ki-max-iv-exchange-dialogue-2025>

MAX IV representatives and contact details

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Participants from KI included those from the Core Facilities at KI, researchers at KI, and clinicians.

Link to MAX IV homepage & other resources

<https://www.maxiv.lu.se>

<https://www.maxiv.lu.se/science/>

<https://www.maxiv.lu.se/beamlines-accelerators/>

<https://www.maxiv.lu.se/beamlines-accelerators/support-labs/>

<https://www.linxs.se>

<https://www.linxs.se/educational>

<https://qim.dk>

<https://infravis.se>

Access & call for proposals

It is better to discuss questions and experiment requirements before submitting proposals. Feel free to contact any of the MAX IV staff listed here and we can continue the dialogue or direct you to the person of interest at MAX IV.

- Access to MAX IV can be through **open call proposals** twice a year which are granted based on scientific merit. Access is free with the requirement to publish. The next call for proposals is February 2026:
 - <https://www.maxiv.lu.se/user-access/call-for-proposals/>
- KI, through Protein Science Facility (PSF) organises **block allocation groups (BAG)** for MAX IV for Macromolecular crystallography (MX):
 - <https://ki.se/en/research/research-infrastructure-and-environments/core-facilities-for-research/protein-science-core-facility-psf/psf-mx>
- **Fast access** is reserved for scientific urgency, feasibility studies and standard measurements. Request for access is open all year:
 - <https://www.maxiv.lu.se/user-access/access-modes/fast-access/>
- **Industry** can pay for access and retain ownership of their results:
 - <https://www.maxiv.lu.se/industry/>

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MAX IV User Meeting 2026

MAX IV hosts an annual user meeting where updates and future plans for MAX IV are presented. In addition, there are multiple parallel sessions, of which the Life Science, Health and Time-resolved could be of interest and poster sessions from users.

Registration closes on December 15th!

<https://www.maxiv.lu.se/education-outreach/user-meeting/>

Short 1-2 sentence summary of each session (generated by CoPilot)

Introduction session

KI and MAX IV are working to expand life science research opportunities, offering versatile instruments, free peer-reviewed access, and strong support systems, while addressing challenges in data sharing, sample preparation, and radiation damage.

Proteins session

MAX IV offers advanced crystallography and scattering facilities (BioMAX, MicroMAX, CoSAXS, FragMAX) that support both fundamental science and drug discovery, with strong infrastructure, collaboration opportunities, and complementary techniques like AF4 to tackle complex biological questions.

Cells session

NanoMAX and SoftiMAX provide powerful, non-destructive imaging and spectroscopy tools to study cells and tissues at multiple resolutions, enabling detailed structural, compositional, and functional insights for life science research.

Tissue session

DanMAX enables advanced imaging and diffraction studies of tissues and bones, supporting high-resolution structural, elemental, and biomechanical analysis, with strong emphasis on sample preparation, collaboration, and statistical robustness.

Concluding session

The importance of dialogue between KI and MAX IV to explore new scientific areas was emphasised. It was highlighted that MAX IV is a user facility focused on collaborative method development, with initiatives like the LINXS “Northern Lights for Food” theme demonstrating how community-driven projects can generate beamtime, networks, education, and lasting impact.

Suggested next steps and future activities

- Discussing about a task force at KI for determining the hospital needs for using MAX IV.
- MAX IV to produce more communication material aimed at new users featuring research examples.
- Having LU researchers who use MAX IV to present to KI.
- MAX IV present at other meetings as a national facility (e.g. cancer meetings).
- Informing core facility leaders at KI so they can inform their users.
- Webinars as time can be an issue to attend day long events or travel.
- MAX4Life Seminars are open to all, next one on December 4th:
<https://www.maxiv.lu.se/event/max4life-talk-series-low-dose-in-vivo-lung-imaging/>
- Find more information about examples through MAX IV's publication portal, annual reports and news stories on the webpage.