



Photos: FOJAB Arkitekt, Franz Pfeiffer

## How can our super-eye see the world in a new light?

MedMAX is a “super-eye” with a higher resolution than any currently existing beamline. Its revolutionary technology is likely to change the way we see the world and some of today’s most serious common diseases such as cancer, Alzheimer’s and Parkinson’s.

MedMAX is located at the MAX IV research facility in Lund which is currently under construction. The facility will be the largest in Scandinavia.

MedMAX creates unique opportunities for scientific study of events and processes at a micro level that we were previously only able to dream about. It will enable ground-breaking research for new, innovative ways of discovering, diagnosing and treating diseases such as cancer, Chronic obstructive pulmonary disease (COPD), asthma, osteoporosis, Alzheimer’s and Parkinson’s. Several research teams, both in Lund and internationally, are on the brink of crucial breakthroughs within these fields. Add research into stem cells, various kinds of implants and prostheses and the regeneration of heart muscle tissue after heart attacks, and a picture emerges of complex and urgent research fields with enormous potential.

To enable the next step in this research – and really achieve the breakthroughs – refined methods and techniques are required. MedMAX is precisely such an investment – a super-eye with a capacity such that it generates opportunities for research to understand, explain and improve life for millions of people.

MAX IV is being built by Lund University with support from the Knut and Alice Wallenberg Foundation, twelve Swedish universities, the Swedish Research Council and others, in close cooperation with other Swedish and international partners. The facility will open in the summer of 2016 and is located close to Lund University, Skåne University Hospital, Medicon Village and the forthcoming neutron radiation facility ESS. Lund University’s many facilities, among them the Lund University Bioimaging Centre, will complement the activities at MedMAX and help to guarantee its success.

### FUNDING NEEDS

- Construction of beamline: SEK 130 million
- Graduate school for around 20 doctoral students: SEK 5 million
- Strategic recruitment of two professors: SEK 20 million

All donations are welcome, whether large or small. Together, we can work for a better world.

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