

- 08.25 Introduction  
Tomas Strömberg, Head of Department, Professor  
Department of Biomedical Engineering, Linköping University.

### Challenges for biomedical engineering

- 08.30 Life science for better health and life quality – an important part of LiU vision for 2030  
Jan-Ingvar Jönsson, Vice-Chancellor, Professor  
Linköping University.
- 09.00 Forum Scientium [\[Read more here\]](#)  
Stefan Klintström, Senior Lecturer  
Department of Physics, Chemistry and Biology,  
Linköping University.
- 09.10 East Sweden Medtech [presentation in swedish]  
Anna Fahlgren, Professor, Linköping University, and  
Terése Källberg, Region Östergötland.
- 09.25 Center for Medical Image Science and  
Visualization (CMIV) [\[Read more here\]](#)  
Anders Persson, Professor  
Department of Health, Medicine and Caring Sciences,  
Linköping University.
- 09.40 Department of Biomedical Engineering  
Marcus Larsson, Senior Lecturer  
Department of Biomedical Engineering, Linköping University.

### Coffee break + Digital arena

- 10.00 Presentations of research and organisations  
At our webpage you may view posters, watch pre-  
recorded presentations and discuss presented material  
in dedicated Zoom-rooms.

### Research presentations

- 11.00 A new focus Area eHealth in LiU and RÖ: why,  
what and who  
Tiny Jaarsma, Professor, and Anna Strömberg,  
Professor  
Department of Health, Medicine and Caring Sciences,  
Linköping University.
- 11.30 Digital pathology  
Claes Lundström, Adjunct Professor  
Department of Science and Technology, Linköping University.
- 11.45 Engineering of oligonucleotides for drug delivery  
Frank Hernandez, Senior Lecturer  
Department of Physics, Chemistry and Biology, Linköping  
University.

### Lunch + Digital arena

- 12.00 Presentations of research and organisations  
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### Research presentations

- 13.00 Neuroengineering in Neurosurgery  
Karin Wårdell, Professor  
Department of Biomedical Engineering, Linköping University.
- 13.30 Clinical Informatics  
Ankica Babic, Professor  
Department of Biomedical Engineering, Linköping University.
- 13.50 The use of artificial intelligence (AI) to safely  
reduce the workload of breast cancer  
screening in a clinical workflow  
Håkan Gustafsson, Adjunct Senior Lecturer  
Department of Health, Medicine and Caring Sciences,  
Linköping University.
- 14.10 Cardiovascular imaging  
Tino Ebbers, Professor  
Department of Health, Medicine and Caring Sciences,  
Linköping University.
- 14.25 Multispectral snapshot imaging of skin tissue  
Maria Ewerlöf, PhD student  
Department of Biomedical Engineering, Linköping University.

### Coffee break + Digital arena

- 14.40 Presentations of research and organisations  
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### Research presentations

- 15.00 Data-driven Life Science (DDL) & WCMM  
David Engblom, Professor  
Department of Biomedical and Clinical Sciences, Linköping  
University.
- 15.15 Physiologically based, multi-level, and  
multi-organ digital twins in healthcare  
Gunnar Cedersund, Senior Lecturer  
Department of Biomedical Engineering, Linköping University.
- 15.30 What is the best data augmentation for 3D brain  
tumor segmentation?  
Marco Domenico Cirillo, PhD student  
Department of Biomedical Engineering, Linköping University.
- 15.45 Solving problems in medical image processing  
using synthetic images  
Anders Eklund, Senior Lecturer  
Department of Biomedical Engineering, Linköping University.

### End of the day