

# LINXS Imaging

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## The QUANTIM Hackathon

November 26-27

(organized by LINXS and QIM, contact: [rajmund.mokso@maxiv.lu.se](mailto:rajmund.mokso@maxiv.lu.se))

### Special focus:

Cellular materials in biomedicine and materials science

### Invited experts:

E. Gouillart (remote), E. Ando, G. Lovric, Vedrana Dahl, Anders Dahl

### Format:

- 1.5 days challenge solving with experts in image analysis, biomedicine and materials
- local and external experts help user groups to find the right approach to quantify their tomographic images
- create environment for cross-fertilization between diverse groups but in need of similar image quantification tools.
- Initiation into the principles of image quantification, introducing tools and terminology.

### Schedule:

Day 1: (12:00 – 18:00)

- 5 min intro into to the challenges by each participant
  - 3x45 min tutorials by invited speakers
  - setting up data / software and defining strategies
  - start coding
  - summary of the day and how to continue
- 19:00- 21:00 DINNER: establishing networks for collaboration

Day 2: (8:30-14:00)

- coding / consulting experts
- interpretation of results and identifying what did not work out
- next steps

parallel program for invited experts:

- invited + local organizers discuss concepts of common platforms / frameworks for collaboration on image quantification
- prepare document with recommendations on how to facilitate image quantification collaborations (common frameworks / sharing scripts / short term visits)

### Challenges to work on / participants:

- Lung hypertension: Christian Norvik , Niccolo Peruzzi, (Karin Tran Lundmark)
- barley/wheat grain mutation: Nick Sirijovski - [nick.sirijovski@biol.lu.se](mailto:nick.sirijovski@biol.lu.se), Mats Hansson [mats.hansson@biol.lu.se](mailto:mats.hansson@biol.lu.se)
- skin hydration and formulations, Enamul Mojundar - Malmo
- liver fibrosis, Anja Schmidt Christensen, LU and Malmo

Next hackathons:

Porous media – fibers – unique samples