Deploying OMERO at CECAD Research Center
CECAD Imaging Facility, RRZK IT-Team

- CECAD: Cluster of Excellence Cellular Stress Responses in Aging-associated Diseases
  - Imaging Facility (Astrid Schauss): light microscopy + electron microscopy + image analysis
- RRZK: Regional Computing Centre, University of Cologne
  - CECAD IT-team: single point of contact for IT + interface to RRZK services
- CECAD OMERO-Team: Peter Zentis (Imaging) + Sascha Neinert (IT)
Current Status: Introducing the new Service

- OMERO server is available as a service for members of the research center
  - Virtual server: 4 cores, 32 GB memory, 15 TB storage
    - Storage: magnetic discs + SSD read/write caches + backup on tape
  - OMERO.web, OMERO.figure, OMERO.iviewer, OMERO.webtagging, OMERO.movie
  - User accounts from university LDAP
  - Approx. 20 groups, 50 users, 1 TB of data
  - Image types: JPEG, TIFF, Imaris, Leica LIF, Leica Slidescanner (scn), EM (dm3, dm4), …
Next Steps, Open Issues

- Getting more users to use the OMERO service
  - Support and teaching
  - Decide how to support users of neighbor institutions
  - Simplify data import? (CLI, dropbox, smuggler, …)
  - Learn how the system scales
- How to cope with big amounts of data
  - All images in OMERO vs. only some
  - Data lifecycle? Archive OMERO data?
- Electronic lab journal: link it to/from OMERO?