Core Facility for Bioimaging, Danish Cancer Society Research Center
Danish Cancer Society Research Center 2022

23 groups, 5 core facilities, 250 researchers
Core Facility Organization

- 2 staff, Tiina Naumanen Dietrich and Chris Dinant
- >60 regular internal users from 10 groups
- 57 users do high content screening (up from ~36 in 2021)
- 10 bookable microscopes and 4 workstations
- 15000h booked in 2021 and 2022.
- External users from early 2023

Research
- Basic and translational cell/molecular biology
- Genome integrity, autophagy, mitosis, metabolism
- We image nuclei, cytoplasmic organelles, nucleoli, membranes, spheroids, DNA fibers etc
Olympus (Evident) ScanR

Molecular Devices ImageXpress Microconfocal HT.AI

Perkin Elmer Ultraview Vox, soon replaced by Crest X-Light V3
Laser ablation

Zeiss LSM700 and 800 (airyscan)

Other live- and non-live-cell fluorescence widefield microscopes
Opening to external users

• Early 2023 we will allow external users on two machines
  • The Zeiss Elyra 7 and Cell Discoverer 7
Zeiss Elyra 7

- Lattice SIM
- SIM² (60nm)
- 3D SMLM
- Duolink two cameras
- Fast live-cell SIM resolution.
Zeiss Cell Discoverer 7 with LSM900

- Installed last month
- 7 excitation leds for widefield
- LSM900 with airyscan
- Automatic water immersion
- Automatic sample identification
- Environmental control
- ZEN and Arivis4D software
Challenges

• Analysis as a service
  • Image analysis, data analysis, 3D
• Core facility development
• Career development
• Communication