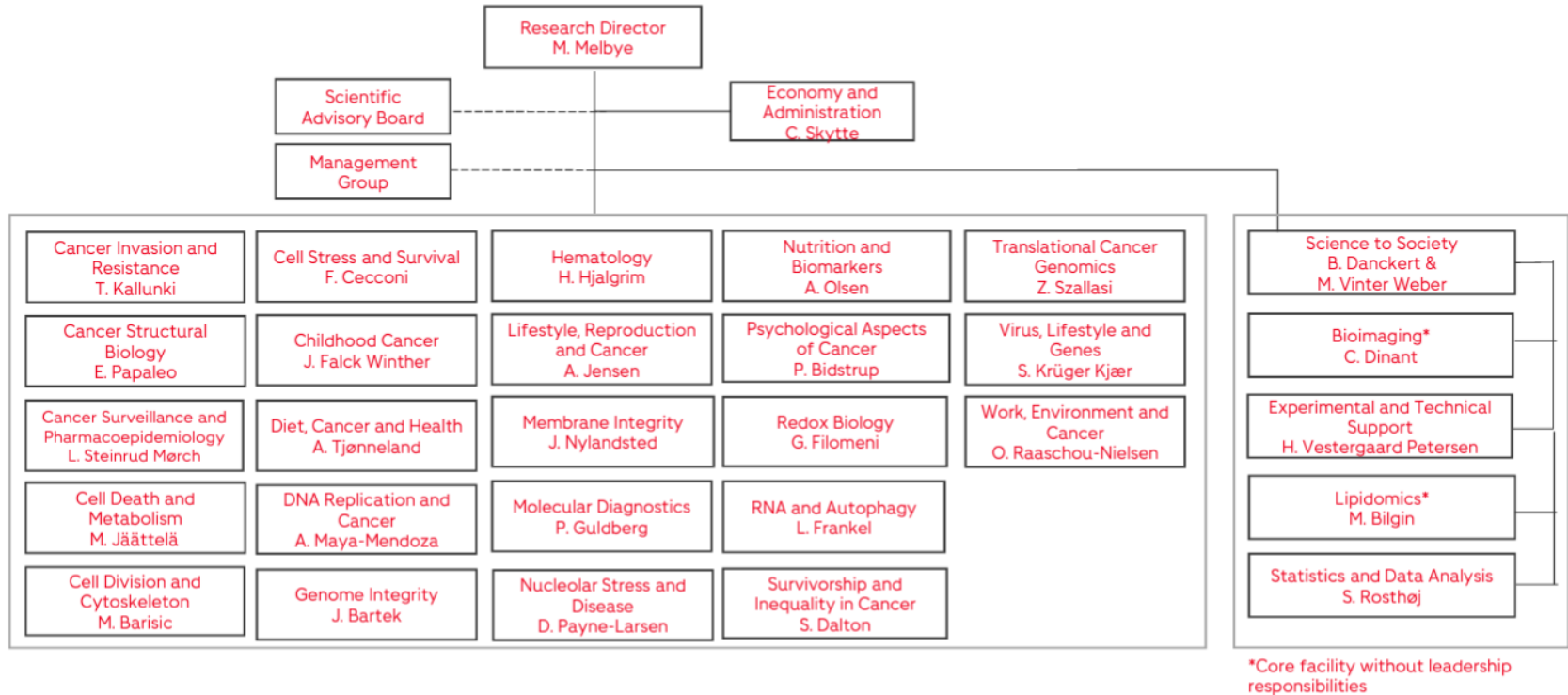


# Core Facility for Bioimaging, Danish Cancer Society Research Center



# Danish Cancer Society Research Center 2022



23 groups, 5 core facilities, 250 researchers

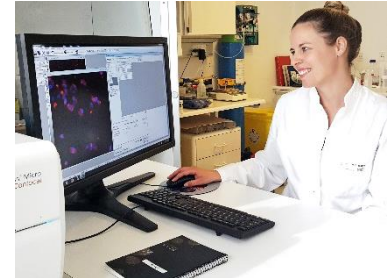


June 2022



# 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



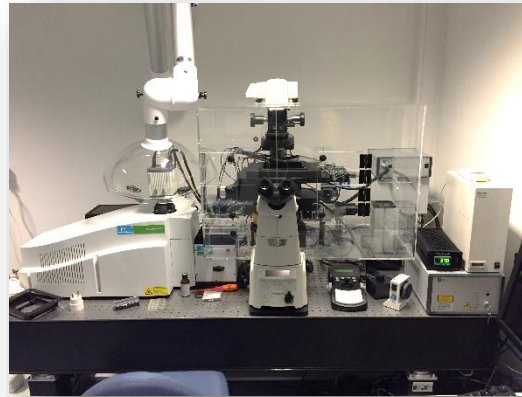
Olympus (Evident) ScanR



Molecular Devices ImageXpress  
Microconfocal HT.AI



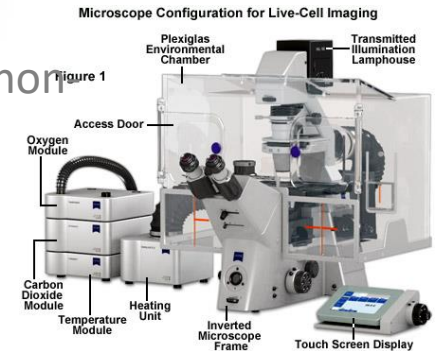
Perkin Elmer Ultraview Vox,  
soon replaced by Crest X-Light  
V3  
Laser ablation



Zeiss LSM700 and 800 (airyscan)



Other live- and non-  
live-cell  
fluorescence  
widefield  
microscopes

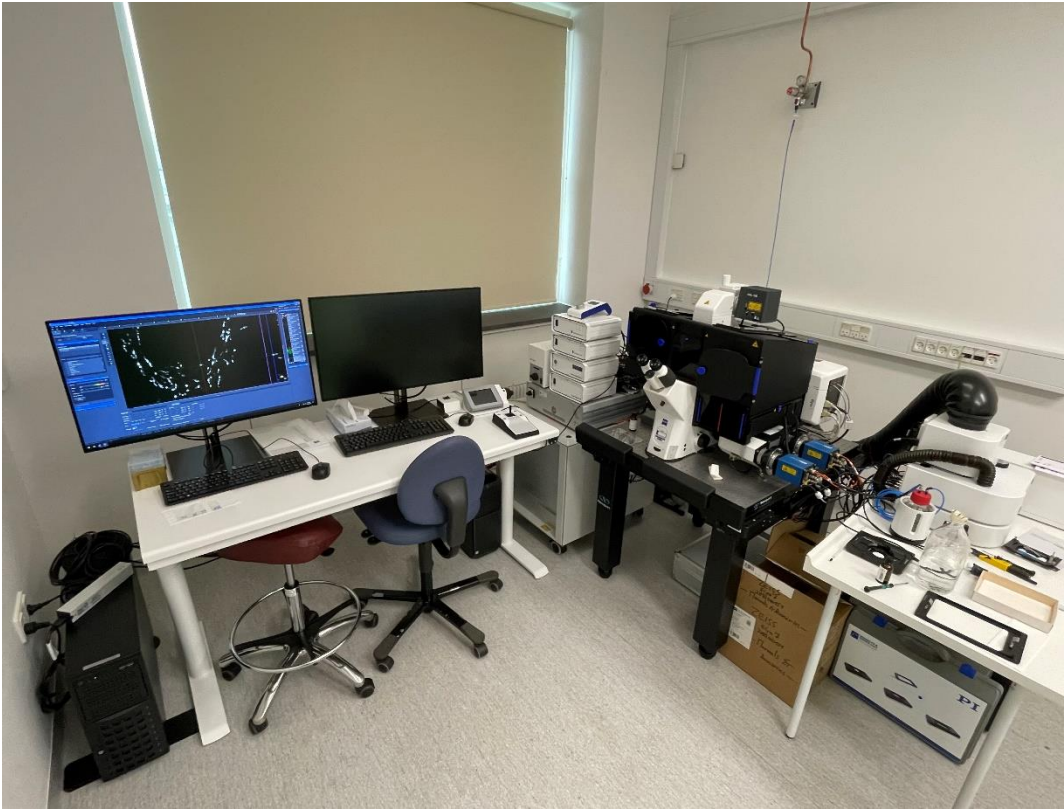


# Opening to external users

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



# Zeiss Elyra 7



- Lattice SIM
- SIM<sup>2</sup> (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

