

***Bi***ophysics

***S***tructural biology

***S***creening



Ruth Brenk, Department of Biomedicine  
University of Bergen, Norway

# Leadership



Ruth Brenk



Petri Kursula



Aurora Martinez

# Staff



Emil Hausvik



Anne Baumann



Sudarshan Patil



Ju Xu

**In total: 1 FTE**

# BiSS

- Established in 2016 at the Department of Biomedicine (with no staff)
- Became a faculty-approved facility a week ago
- In 2018 and 2019 BiSS, has been used by 19 different research groups and one company
  - 16 groups from 3 different institutes at the Faculty of Medicine
  - 1 group from MATNAT,
  - 1 group from UiO, and 1 group from Germany

# Funding

NORCRYST

NOR-openscreen 

a nominated partner site of

eu  openscreen



## THE PEOPLE

Ruth Brenk



Aurora Martinez

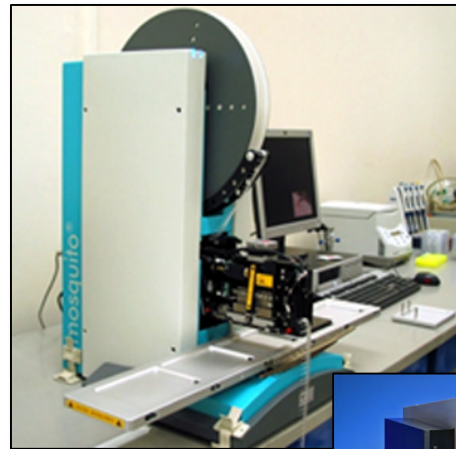


Jarl Underhaug



# Instrumentation

- Instrumentation for determining interactions of macromolecules with other ligands
- Instrumentation for crystallization of macromolecules
- 13 different instruments in total



# Compound screening site

a nominated partner site of

eu  openscreen



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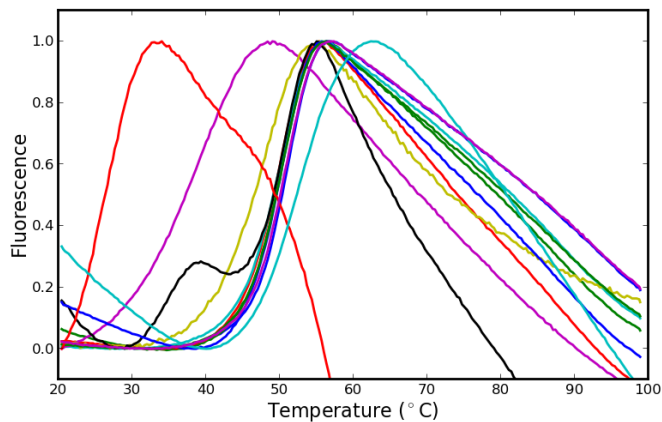


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# Differential scanning fluorimetry

- Detects change in protein stability upon compound binding
- Equipment: RT-PCR
- MyriaScreen diversity collection (10,000)
- Prestwick FDA (1,280)





# Fragment screening

- Fragment library with about 800 compounds (Otava)
- Eu-Openscreen library with 1000 fragments is on the way
- Octet Red 96 instrument
  - Label free technology for measuring biomolecular interactions
  - Delivers binding affinity and kinetics
- Biacore T200
- Cheminformatics



# Challenges for the future

- Funding for new instruments to keep up-to-date
- Fee structure that allows us to main instruments