

Personnel:



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Research: MRI and confocal imaging related to cancer models in rats and mice.
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Heidi Espedal, Chief Engineer
Contact for PET imaging.

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Anne Nyhaug, Engineer
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Jaakko Saraste, Professor
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Arvid Lundervold, Professor
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Molecular Imaging Center

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For more detailed information on equipment and prices please visit:

<http://www.uib.no/rg/mic>



MIC

Molecular Imaging Center

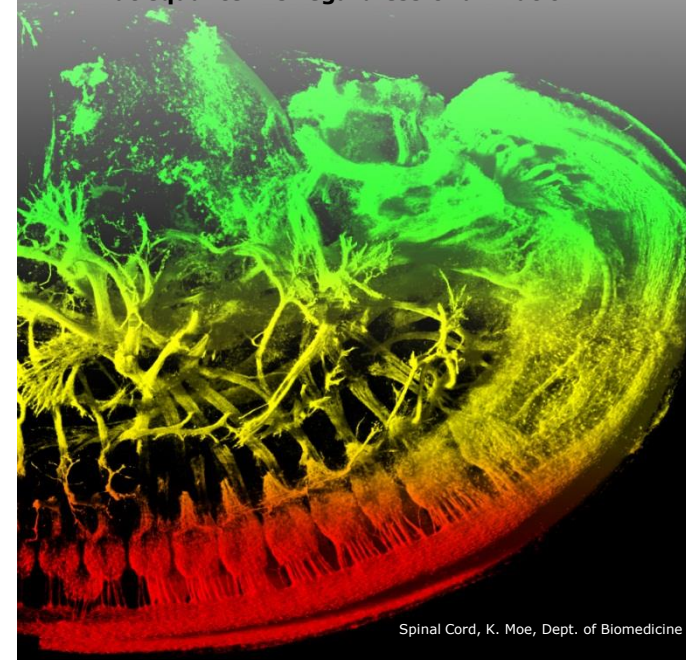
The Molecular Imaging Center (MIC) is an open access core facility in advanced molecular, cellular and small animal imaging.

MIC is equipped for sample preparation, electron-, fluorescence- and confocal microscopy, and small animal imaging (magnetic resonance imaging, optical imaging, ultrasound and PET).

MIC has highly qualified technical and scientific personnel operating and maintaining all instruments.

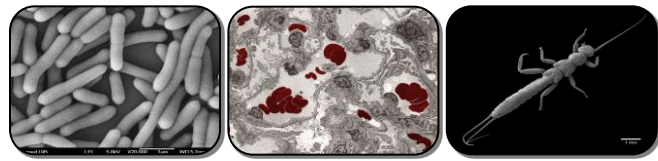
MIC offers courses, training on and access to all instruments as well as extensive support to all users.

**We welcome all researchers
at equal terms regardless of affiliation.**



Spinal Cord, K. Moe, Dept. of Biomedicine

Nanometers



Scanning and transmission electron microscopy

Imaging of cellular ultra structures in samples prepared for transmission EM and of surface structures in samples prepared for scanning EM.

Equipment:

- Transmission EM: Jeol JEM-1230
- Scanning EM: Jeol JSM-7400F
- Ultra cryo microtome Leica

MIC provides:

- Courses in electron microscopy and EM-preparation.
- Individual training on the microscopes in order to become an independent user of the instrument. Help will still be provided when needed.
- Assisted use of the microscopes; for scientists with limited need for knowledge in EM imaging procedures.
- On special requests we can do all of the imaging of your prepared samples.

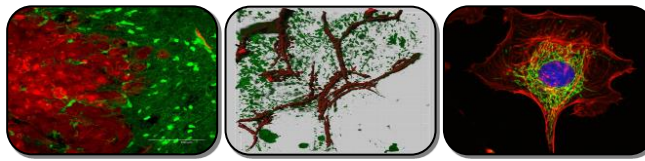
• A fully equipped EM-lab:

- On request we provide the whole process of EM sample preparation and paraffin embedding /sectioning for light microscopy.
- Training in EM-preparation.
- Access to the EM-lab.

Please contact Anne for advise on the correct method for fixation of your samples.

Contacts: Endy Spriet (EM-imaging)
Anne Nyhaug (sample preparation)

Micrometers



Fluorescence and confocal microscopy

Imaging of fluorescently stained samples of fixed cells and tissue, or live cell samples (heating and CO₂ is provided).

Equipment:

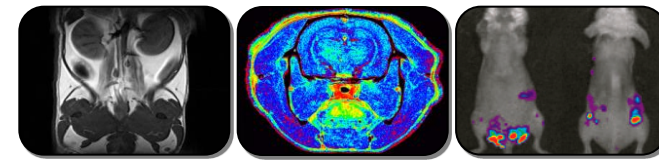
- Widefield fluorescence: Nikon TE 2000
- Confocals: Zeiss LSM 510 META
Leica TCS SP2 AOBS
Leica TCS SP5
- Live cell confocal /spinning disc : Andor Revolution
- High throughput: BD Pathway 855

MIC provides:

- Theoretical and practical courses.
- Individual training on the microscopes in order to become an independent user of the instrument. Help will still be provided when needed.
- Assisted use of the microscopes; for scientists with limited knowledge in confocal imaging.
- Advice on possible applications on the microscopes, which fluorochromes and fluorescent proteins to use and advice on sample preparation.
- On special requests we can do all of the imaging of your prepared samples.
- Training on different image processing software packages available at MIC (Imaris, Leica, Zeiss etc.).

Contacts: Endy Spriet/Hege Avsnes Dale

Sub-millimeters



Multi-modal non invasive imaging of small animals

MIC provides:

- Training on the instruments.
- Theoretical and practical courses.
- Individual experimental protocol optimization.
- Research collaborations/extensive service and analysis.
- Access to work stations for image analysis.

Magnetic Resonance Imaging

Equipment: Bruker 7.0 Tesla Small Animal MR scanner

Contacts: Tina Pavlin/Frits Thorsen

Location: Vivariet, Haukeland University Hospital

PET-CT

Equipment: Mediso NanoScanPC PET/CT

Contact: Heidi Espedal

Location: The PET Center, Haukeland University Hospital

Optical Imaging

Equipment:

- ART Optix MX2 Fluorescence/Bioluminescence imaging
- Carestream FX

Contact: Emmet.Mc.Cormack@uib.no

Location: Animal facility/Vivariet

Ultrasound

Equipment: Vevo 2100 Imaging System 230V

Contact: jose.gomez@uib.no

Location: Vivariet, Haukeland University Hospital

