

# Conference book

May 11, 2026 | Rotundan, Umeå University

## Infrastructure Day

hosted by

SciLifeLab  
Umeå

Elevate your  
research by unique  
technologies



# Program

## - Program -

- 8.30** Registration, poster mounting and coffee
- 9.00** **Welcome, introduction and future paths of research infrastructure users and providers**  
Linda Sandblad, *Site Director for Umeå SciLifeLab and director of UCEM*  
Anna Arnqvist Björklund, *Chair of the Umeå SciLifeLab Steering Group*  
Richard Lundmark, *Member of the Umeå SciLifeLab Steering Group and Director of BICU*

### SESSION 1: INFRASTRUCTURE PITCHES

*Chairperson: Anna Arnqvist Björklund*

- 9.30** **From idea to insight: Data, bioinformatics, and AI support in Life Science**  
Jeanette Trångrot  
*NBIS - National Bioinformatics Infrastructure Sweden*
- Dungeons and bioinformaticians: data processing and storage at UPSCb**  
Edoardo Piombo  
*UPSC Bioinformatics - Umeå Plant Science Centre Bioinformatics*
- From Freshwater to Ocean: An Open Research Infrastructure for Experimental Aquatic Science**  
Regina Kolzemburg  
*UMF - Umeå Marine Sciences Centre*
- C-Trap: combining optical tweezers, confocal microscopy and microfluidics to study single-molecule dynamics and mechanics**  
Rubén Casanova Sáez  
*C-Trap Facility*
- Launching the Umeå Proteomics Core Facility**  
Iker Valle Aramburu  
*Proteomics Core Facility*
- Multi-omics services provided by the SciLifeLab National Genomics Infrastructure (NGI)**  
Susana Häggqvist  
*NGI National Genomics Infrastructure*
- Advancing clinical research through innovative infrastructure**  
Anna Ramnemark  
*Head of Unit, Clinical Research Centre*
- 10.10 *Coffee break*

## - Program -

### SESSION 2: Infrastructures Presentation - Representing National SciLifeLab Platforms

Chairperson: Richard Lundmark

- 10.40 Bridging Technologies – from PCR to Spatial Omics**  
Linda Köhn  
*Clinical Genomics*
- 11.00 From Molecules to Meaning: Metabolomics at the Swedish Metabolomics Centre**  
Annika Johansson  
*SMC - Swedish Metabolomic Centre*
- 11.20 Small Molecules, Big Answers: Exploring Biology with Chemical Tools**  
Stina Berglund Fick  
*CBCS - Chemical Biology Centre Sweden*
- 11.40 Frustrated with biosolid? Have you tried ssNMR to release your headache?**  
Tobias Sparrman  
*Swedish NMR - Nuclear Magnetic Resonance Centre UMU*
- 12.00 Lunch

### INTERACTION SESSION

- 13.00** Poster session by research infrastructures in Umeå University, SLU and Region Västerbotten

### SESSION 3: DATA MANAGEMENT

Chairperson: João Figueira

- 13.30 Panel Discussion**  
Moderator: Kate Bennett
- Panel members:  
*Björn Nystedt (NBIS, UU), Björn Torkelsson (Assistant Director of HPC2N, UMU), Elisabeth Mach (Legal Officer at Legal and Information Management Office UMU), Kelly Swarts (DDLS Fellow, SLU & UMU), Nicolas Delhomme (Coordinator for data and computational support for WIFORCE)*
- 14.30 Afternoon Break

## - Program -

### SESSION 4: Infrastructures Presentation - Representing National Microscopy Infrastructures

Chairperson: Tobias Sparrman

- 15.00 Putting electrons to work: From cell imaging to nanostructure fabrication**  
Lorene Gonnin & Nils Hauff  
*UCEM - Umeå Centre for Electron Microscopy*
- 15.20 From Photons to Forces: Imaging Biology Across Scales**  
Fouzia Bano & Sebastian Rönfeldt  
*BICU - Biochemical Imaging Centre Umeå*
- 15.40 Elevate Your Research by Industrial Collaboration From Academic Excellence to Societal Impact**  
Andreas Lindberg  
*UBI - Umeå Biotech Incubator*
- 16.00 What's Cooking**  
Linda Sandblad  
*SciLifeLab site Umeå Director*

### INTERACTION SESSION

- 16.05 Bubbles & Mingel and 2nd Poster Session**

## Panel Members

### Panel Member



**Björn Nystedt**

Platform co-director for Bioinformatics  
Head of Unit for support, infrastructure and training  
at Uppsala University

I work as a manager of the NBIS support team focusing on areas including Microbiology, Infection Biology, and Structural biology, providing advanced bioinformatics support and training to the Swedish life science research community. Our work includes consultation, hands-on support and postgraduate training in a diverse range of areas such as metagenomics, microbiology, metabolomics, Cryo-EM data processing, protein structure prediction, workflow management systems and machine learning. We are engaged in the SciLifeLab & Wallenberg National Program for Data-Driven Life Science (DDLs), by providing bioinformatics support within the DDLs Epidemiology and Biology of Infections research area.

## Panel Member



### Björn Torkelsson

Deputy Director for High Performance Computing Centre North (HPC2N), Umeå University

I started as a systems engineer at HPC2N in 1997, a few months after HPC2N was formed. In the beginning, I mainly worked with the operation and maintenance of our visualization systems, HPC clusters and storage systems. Over time, I became responsible for the system group at HPC2N, with responsibility for the daily operations, but also with responsibility for planning, purchasing, procurements and developing long-term strategies. Since 2020, in addition to being technically responsible, I am also deputy director at HPC2N. I also have some assignments at the national level, within NAISS.

Right now, I am focusing primarily on, together with the rest of the project group, developing a strategy and technical proposals for a university-wide solution for long-term storage and management of research data, both sensitive and non-sensitive research data.

## Panel Member



### Elisabeth Mach

Legal Officer at Legal and Information Management Office, Umeå University

I work as a legal officer at Umeå University. I am also a member of the university-wide research data team at Umu, (read more here: [Support regarding research data](#)). The past 3,5 years I have mainly worked in the research data management project at Umu which was closed 31/12 2025. My focus in the project was legal and information security. Now I am working to put the experiences from the project into practice, among other things, through the university-wide research data support team. Furthermore, I am a representative of the EUCAIM project in the DIGIfor1healthSE project legal workgroup, which is coordinated by SciLifeLab.

## Panel Member



### Kelly Swarts

DDLS Fellow, Swedish University of Agricultural Sciences, Research on Tree Ring Genomics

I am a DDLS Fellow at the Swedish University of Agricultural Sciences (SLU), where my research focuses on tree ring genomics and climate adaptation in conifers. I use quantitative, computational, and population genetics approaches to understand how genetic variation and environmental conditions shape tree growth over time. By combining genomic data with annual growth records preserved in tree rings, I aim to better understand and predict how forests respond to climate change, helping to support the development of resilient future ecosystems.

## Panel Member



### Nicolas Delhomme

Coordinator for the Data and Computational Support for the Wallenberg Initiative for Forest Research (WIFORCE)

While a geneticist by training, my career turned me into a data scientist, working with gene expression in a systems biology context, presently - and for over a decade; at the Swedish University of Agricultural Sciences. After a decade being the manager of the Umeå Plant Science Centre Bioinformatics Facility, I have now taken responsibility as the coordinator for the data and computational support centre's being established within the Wallenberg Initiative for Forest Research (WIFORCE). The centre main tasks will be to facilitate access to distributed datasets and enable AI/ML modelling for broad forestry related questions that span multiple areas of expertise at SLU.

This work will be conducted in close collaboration with HPC2N: Umeå University (UMU)'s High Performance Computing centre; various departments at UMU and with the Wallenberg WASP program and related AI4Science company. This will also help me leverage my appointments as the HPC2N contact person at SLU and as a member of the NAISS (National Academic Infrastructure for SuperComputing Sweden) User Support Advisory Committee (USAC) representing the bioinformatics community.

## Research Infrastructures

## Research Infrastructures

### National Bioinformatics Infrastructure Sweden - NBIS

NBIS, National Bioinformatics Infrastructure Sweden, is a distributed national research infrastructure. We are the SciLifeLab bioinformatics platform and the Swedish node in Elixir, a European intergovernmental organisation bringing together life science resources from across Europe. With over a hundred staff members, we work with bioinformatics support, infrastructure and training.

NBIS has staff at six sites: Umeå, Uppsala, Stockholm, Linköping, Göteborg, and Lund. We provide expertise in most areas of bioinformatics, including omics analysis, genome assembly/annotation, image analysis and biostatistics. We also offer support in systems development, such as interactive websites and data processing pipelines.

NBIS is mainly funded by the Swedish Research Council, SciLifeLab, the Knut and Alice Wallenberg Foundation, and Swedish universities.

We provide:

- Weekly online drop-in sessions, Tuesdays at 14:00; <http://meet.nbis.se/dropin>. Join to discuss study design, data analysis or other bioinformatics-related questions.
- Free consultation meetings.
- Hands-on project support, ranging from assistance with smaller tasks to long-term engagement.
- Free, extensive hands-on support to a limited set of projects selected in a peer review process (enabled by a grant from Knut and Alice Wallenberg Foundation).
- Tools, data management, systems development and guidelines for the life science community.
- Introductory and advanced training events, such as workshops in RNAseq data analysis, epigenomics data analysis, tools for reproducible research, Python programming, and many other bioinformatics related topics.
- The Swedish Bioinformatics Advisory program - A mentorship program for PhD students interested in guidance from a bioinformatics expert. For more information, please visit <https://nbis.se>

#### CONTACT

General questions: [info@nbis.se](mailto:info@nbis.se)

Local contact: Jeanette Tångrot, [jeanette.tangrot@umu.se](mailto:jeanette.tangrot@umu.se)

#### MORE INFORMATION

<https://www.nbis.se>



## Research Infrastructures

### Umeå Plant Science Centre - Bioinformatics Facility UPSCb

The UPSC Bioinformatics Facility (UPSCb) is a small group of 5 bioinformaticians, offering a range of bioinformatics services as well as participating in wider collaborative projects. The facility also delivers local bioinformatics training and contributes to workshops and training programs. Since it was founded in 2016, the facility has been handling a total of 314 projects for 65 different research groups.

We have a strong expertise in High Throughput Sequencing (HTS) data analysis, having been involved in the genome assembly of several tree species, among which most recently spruce and pine, having handled several thousands bulk RNA-Seq samples, analysed single-cell sequencing and spatial transcriptomics, as well as metagenomics, metatranscriptomics, ribosome profiling, transcription starting site sequencing, methyl-seq, ATAC-seq.

The services offered by the facility mostly fall in one of the following categories:

- Mentoring/training of personnel (800 SEK/h): PI "contributes" a PhD / Post-doc who is to be supervised by the facility to learn doing the analyses
- Data preprocessing (800 SEK/h): The facility runs state of the art tools to process the data
- Data science teaching (500-800 SEK/h): The facility runs one or more lessons in courses about bioinformatics or data science.
- Raw data archiving (legal requirement) (800 kr/TB/year)
- Redundancy storage (only 1 copy) (300 kr/TB/year)

While precedence is given to projects coming from groups working at UPSC, we do accept projects from external PIs.

#### CONTACT

General questions: [bioinfo-facility@upsc.se](mailto:bioinfo-facility@upsc.se).

#### MORE INFORMATION

<https://www.upsc.se/platforms/upsc-bioinformatics-facility.html>



## Research Infrastructures

### Umeå Marine Sciences Centre - UMF

Umeå Marine Sciences Centre is a complete research facility with all the platforms required to conduct world-leading research. We have several research vessels, smaller boats, a hovercraft, snowmobiles, mesocosms, a diverse array of field and lab-based analytical instrumentation, a research dive team and an engineering workshop, all underpinning world-class research and innovation.

Our indoor mesocosm facility is one of the most advanced in Europe. It enables us to conduct large-scale deep-water experiments with high precision and accuracy over environmental conditions, including control of temperature, salinity, stratification, convective stirring, haloclines, ice cover, carbonate chemistry and light fields.

#### Mesocosm highlights:

- 12 replicated 6m deep mesocosms
- Full salinity range (2-34)
- 3 adjustable temperature depths enabling stratification and convective stirring from polar to tropical temperatures (2-30°C accuracy +/- 0.5° C)
- Carbonate chemistry control for example in multiple stressor experiments
- Advanced adjustable light sources emulating daylight spectra for any biome globally
- Control of over-chamber atmospheric air temperature down to -20°C
- Ice cover where freezing or thawing rate can be adjusted
- Intact bottom sediments can be transferred to the mesocosms

**At Sea:** Umeå Marine Sciences Centre also has 12 transportable free-floating mesocosms, designed for experiments in extreme and icy conditions which can be used *in situ*, or transported to other locations.

**In the Laboratory:** Our facility contains two experimental halls with smaller mesocosms and aquaria including licencing for fish-based investigations. Our advanced water treatment allows experiments with environmentally hazardous chemicals and pharmaceuticals or biological agents.

A full list of our facilities is available here: <https://www.umu.se/en/umea-marine-sciences-centre/infrastructure-and-services/>.

Link to funding for free access: <https://www.umu.se/en/umea-marine-sciences-centre/funded-infrastructure-access/>.

#### CONTACT

General questions: [regina.kolzenburg@umu.se](mailto:regina.kolzenburg@umu.se)

#### MORE INFORMATION

<https://www.umu.se/en/umea-marine-sciences-centre/>



## Research Infrastructures

### Core Proteomics Facility

High-resolution, quantitative proteomics has become a cornerstone of biological and clinical research, driving discovery from fundamental cell biology to translational studies. To strengthen local research mass spectrometry capacity, the Mateus and Aramburu Lab are establishing the Umeå Proteomics Core Facility, located at KBC and equipped with two state-of-the-art Thermo Fisher Exploris 480 Orbitrap mass spectrometers.

The facility will provide accessible, high-quality mass spectrometry services for protein identification and quantification. We will support users from experimental design to sample preparation and data analysis and interpretation, offering workflows tailored for diverse applications such as global proteome profiling and targeted quantification, among others.

#### CONTACT

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[iker.aramburu@umu.se](mailto:iker.aramburu@umu.se)

#### MORE INFORMATION

The website will be announced shortly

## Research Infrastructures

### C-Trap Facility

The C-Trap facility at Umeå University provides access to a state-of-the-art dual-trap C-Trap dymo 300 system, an integrated setup combining optical tweezers, multichannel microfluidics, and fluorescence microscopy. This combination enables simultaneous manipulation, visualization, and force measurement of biomolecules with sub-nanometer spatial and sub-millisecond temporal resolution. By using highly focused laser beams, optical tweezers can trap and control microscopic particles, allowing precise application and detection of forces in the piconewton range.

The facility supports experiments that probe biomolecular interactions in real time under near-physiological conditions, including DNA-protein and RNA-protein binding, protein folding, and conformational dynamics. The integration of confocal fluorescence microscopy enables direct visualization of molecular events such as binding, translocation, and structural changes, while the microfluidics system allows rapid exchange of environmental conditions and reagents during experiments. This correlative approach provides access to both mechanical and biochemical information within the same experiment at single-molecule resolution, overcoming limitations of traditional bulk assays that average out heterogeneous or transient behaviors.

The C-Trap addresses a wide range of biological and biophysical questions by enabling quantitative measurements of forces, kinetics, and molecular dynamics at the single-molecule level. It is particularly suited for studying mechanisms such as transcription, ligand-receptor interactions, and mechanobiological processes, where both structural changes and force generation are critical. By offering experimental design support, data acquisition, and guidance in data analysis, the facility serves as a multidisciplinary platform for researchers in fields such as molecular biology, biophysics, microbiology, and nanoscience.

#### CONTACT

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#### MORE INFORMATION

<https://www.upsc.se/platforms/c-trap-facility.html>



## Research Infrastructures

### SciLifeLab National Genomics Infrastructure (NGI)

The SciLifeLab National Genomics Infrastructure (NGI) is a national research infrastructure providing access to state-of-the-art technologies and applications in molecular biosciences for Swedish academia, industry, and international users. NGI offers comprehensive support, from project planning and experimental design to data generation and primary analysis, across both short- and long-read sequencing and SNP genotyping. NGI continuously evaluates emerging technologies and develops new methods to remain at the forefront of the rapidly evolving genomics field. Equipped with state-of-the-art instrumentation, NGI supports projects of all scales and across diverse organisms. Our broad portfolio includes high-quality molecular services for multi-omics solutions; including genomics, transcriptomics, epigenomics, and proteomics with NGS read-out, as well as single-cell sequencing and spatial transcriptomics.

## Research Infrastructures

### Clinical Research Centre

The Northern Healthcare Region of Sweden provides a well-integrated and supportive environment for high-quality clinical research. Embedded within a publicly funded and highly digitalized healthcare system, the region benefits from highly skilled professionals, comprehensive health data, national quality registers, unique biobank collections, and robust ethical and regulatory frameworks. Together with strong patient trust and engagement, these assets enable both academic and industry-sponsored clinical studies across a broad range of therapeutic areas. Through coordinated infrastructures, experienced healthcare personnel, and innovative operational models, the region offers a reliable setting for efficient, ethical, and impactful clinical research that delivers tangible benefits for patients and society.

#### CONTACT

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#### MORE INFORMATION

<https://ngisweden.scilifelab.se>



#### CONTACT

General questions: [klinisktforskningscentrum@regionvasterbotten.se](mailto:klinisktforskningscentrum@regionvasterbotten.se)

#### MORE INFORMATION

<https://www.umu.se/en/research/infrastructure/clinical-research-centre/>



## Research Infrastructures

### Clinical Genomics

Clinical Genomics Umeå is a research infrastructure and a node in the SciLifeLab platform Clinical Genomics (CG), which has representation at all seven medical faculties in Sweden, working in close collaboration with the respective university hospital. The aim of the CG platform is to support and provide services for translational and clinical research. CG Umeå operates in tight collaboration with Genomic Medicine Centre North and the Clinical Genetics department at the University Hospital of Umeå.

Our national services within massively parallel sequencing and other molecular technologies include project consultation, sequencing, spatial transcriptomics and proteomics, array-based assays, quality control of samples for various analyses and bioinformatics support. Equipment we have access to includes liquid handling stations and systems for sample quality control. As well as instrumentation for array analysis, Sanger sequencing, real time PCR, spatial and gene expression analysis and platforms for short read and long read sequencing.

We strive to tailor analyses to meet specific requirements from our users.

#### CONTACT

General questions: [info@genomicmedicine.se](mailto:info@genomicmedicine.se)  
Umeå specific questions: [linda.kohn@umu.se](mailto:linda.kohn@umu.se)

#### MORE INFORMATION

<https://www.umu.se/en/research/infrastructure/clinical-genomics-umea/>  
<https://genomicmedicine.se/en/>



## Research Infrastructures

### Swedish Metabolomics Centre - SMC

The Swedish Metabolomics Centre (SMC), a national research infrastructure within SciLifeLab, provides state-of-the-art mass spectrometry-based analysis of metabolites and lipids in biological systems. Established in 2013 with support from the Knut & Alice Wallenberg Foundation, Umeå University, and the Swedish University of Agricultural Sciences, SMC serves as both a service platform and a knowledge hub, supporting researchers across Sweden in designing and executing high-quality metabolomics studies.

SMC offers a comprehensive portfolio of analytical approaches, including untargeted metabolomics for global profiling of small molecules, as well as targeted methods for precise quantification of selected metabolites such as amino acids, sugars, lipids, and steroid hormones. These analyses are primarily based on advanced LC-MS/MS and GC-MS technologies, enabling sensitive, high-throughput measurements in diverse biological matrices. Close interaction with users—from study design to data interpretation—ensures optimal experimental strategies tailored to each research question.

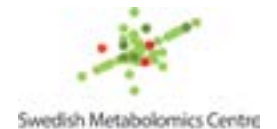
SMC's impact is illustrated through a wide range of collaborative research projects. This presentation will provide an overview of SMC's analytical capabilities, recent technological advances, and selected user cases demonstrating the broad applicability of metabolomics in health, environmental, and life science research.

#### CONTACT

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#### MORE INFORMATION

<https://www.swedishmetabolomicscentre.se>  
<https://www.umu.se/en/research/infrastructure/metabolomics/>



### Chemical Biology Consortium Sweden - CBCS

How do you turn a biological question into a molecule that can answer it – or even become a drug?

At the Chemical Biology Consortium Sweden (CBCS), we support researchers in doing exactly that. While high-throughput screening of small-molecule libraries is central to what we do, CBCS offers a much broader range of chemical biology technologies designed to advance projects at multiple levels.

We combine assay development, screening of small molecules from our over 350,000 compound collection, and follow-up studies with services such as custom organic synthesis, compound functionalization, computational chemistry, and molecular toxicity testing. This integrated approach allows researchers not only to identify bioactive molecules but also to refine, understand, and apply them in meaningful biological contexts.

CBCS acts as a collaborative partner, a service provider, and an open-access resource. We work with PhD students, postdocs, and PIs – offering hands-on support, training, and access to advanced instrumentation that would otherwise be difficult to establish within individual labs.

CBCS is a national SciLifeLab infrastructure with nodes at all major Universities in Sweden. Each node has slightly different capabilities, and all are available to researchers throughout Sweden. For more information on how you can start using CBCS in your projects to elevate your research, visit [CBCS.se](http://CBCS.se) or our local infrastructure page on the Umeå University website.

Visit us in the KBC-building, Floor C4

#### CONTACT

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#### MORE INFORMATION

<https://www.cbcs.se>



### Nuclear Magnetic Resonance - NMR

The KBC NMR Core facility provides access to state-of-the-art NMR equipment and expertise for all researchers in the KBC and Campus environment. This facility is part of the national infrastructures SwedNMR funded by VR RFI and SciLifeLab and it is operated by the Swedish NMR Centre at the University of Gothenburg and Umeå University. As a national service infrastructure, we grant access to academic and industrial researchers across Sweden.

The NMR facility offers access to powerful liquid and solid-state NMR infrastructure with spectrometers ranging from 400 to 850 MHz. Our ultrafast magic angle spinning probe and cryo-MAS probe are unique for the Nordic countries, enabling high-resolution spectra of proteins and studies of complex biological samples in the solid-state. High-field instruments are equipped with cryo-probes for optimal sensitivity for biomolecular solution NMR and environmental NMR. Robotic sample preparation and sample changers are available for high-throughput applications such as metabolomics and fragment-based screening (FBS).

#### SERVICE PROVIDED BY THE INFRASTRUCTURE

The NMR core facility offers nation-wide NMR access in four areas: Liquid- and solid-state structure analysis, materials science, metabolite studies and chemical biology. In addition, our personnel provide expertise according to the users need in all areas, from experimental design and sample preparation to data analysis.

Three-dimensional structures can be determined for soluble proteins, solid and membrane-bound proteins, nucleic acids and biomolecular complexes.

Metabolomics can be carried out on liquid and solid samples, including temperature-sensitive biological specimens. Advanced support of the entire process is provided, including bioinformatics data analysis support. Through collaboration with the Swedish Metabolomics Centre, we offer combined NMR- and MS-based metabolomics.

Our solid-state NMR equipment allows structural studies of insoluble protein aggregates such as amyloid fibrils and membrane proteins in their functional lipid environment.

FBS is performed using substance libraries from - and in interaction with - Chemical Biology Consortium Sweden (CBCS).

#### CONTACT

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#### MORE INFORMATION

<https://www.umu.se/en/research/infrastructure/nmr/>  
<https://www.umu.se/en/research/infrastructure/nmr/nmrequipment/nmrequipment/>



## Research Infrastructures

### Umeå Centre for Electron Microscopy - UCEM

The Umeå Centre for Electron Microscopy (UCEM) supports research across all disciplines, including material science, chemistry, structural biology and medical research. UCEM functions in the capacity of a university core facility, in addition to its role as a national and international research infrastructure for imaging and advanced electron microscopy (EM) for soft materials.

UCEM is equipped with seven instruments, providing services and methodologies in transmission electron microscopy (TEM) and scanning electron microscopy (SEM). The facility staff scientist team provides support, services, and training. UCEM offers help with project planning and method selection, sample preparation, and finally electron imaging and data processing – supporting EM project execution across all project phases. UCEM hosts the SciLifeLab Cellular and Molecular Imaging platform in Umeå. At the core of UCEM's activities as a SciLifeLab node lies cryo-EM; a method of choice for the study of protein structures, cells, small organisms and viruses maintained in a frozen-hydrated state. The structural characterisation of proteins is typically performed through single particle 3D reconstruction and analysis (SPA). The study of large molecular complexes, whole-microorganisms and subcellular volumes in 3D is achieved by cryo-electron tomography. Moreover, UCEM provides micro-ED, volume EM, and correlative microscopy methods for life science.

UCEM highly supports interdisciplinary and cross-platform research through advice and collaboration with other infrastructure. It is equipped to investigate hydrated soft materials and collaborates with the Nanolab at the Physics Department for nanofabrication—using techniques like electron beam lithography (EBL)—and characterization of nanostructures.



#### CONTACT

General questions: Linda Sandblad, Facility Director  
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#### MORE INFORMATION

<https://www.umu.se/en/research/infrastructure/umea-centre-for-electron-microscopy-ucem/>



## Research Infrastructures

### The Biochemical Imaging Centre Umeå - BICU

The Biochemical Imaging Centre Umeå (BICU) offers access to a wide range of instruments, ranging from light microscopy techniques such as widefield, laser confocal, and total internal reflection fluorescence microscopy, alongside super-resolution techniques such as structured illumination microscopy (SIM), single-molecule localization microscopy (SMLM), and correlative light and electron microscopy (CLEM), with the opportunity for hands-on user training.

In addition, BICU also houses Atomic Force Microscopy (AFM). These instruments generate high-resolution 3D topographical images of biological (e.g., living cells) and non-biological samples (e.g., polymers or nanoparticles) in air or liquid. In addition to imaging these samples, mechanical properties such as adhesion, stiffness, and deformation can also be quantified with AFM across the life sciences, materials science, and chemistry.

On Infrastructure Day, we will show how to visualize the fascinating membrane contact sites between the plasma membrane and the endoplasmic reticulum using some of our powerful labeled and label-free imaging approaches. Furthermore, we will explore how this label-free AFM imaging tool allows us not only to see the invisible and probe samples with high precision, but also to manipulate molecules at the nanoscale.



#### CONTACT

General questions: [info.bicu@umu.se](mailto:info.bicu@umu.se)

#### MORE INFORMATION

<https://www.umu.se/en/research/infrastructure/biochemical-imaging-centre-umea-bicu/>



## Research Infrastructures

### Umeå Innovation Office and Umeå Biotech Incubator

Collaboration with industry is a key component of modern life sciences and a cornerstone of University 4.0 as promoted by EU innovation policy. This seminar explores how industry engagement accelerates knowledge translation, increases societal impact, and strengthens the relevance of academic research. It highlights the role of universities as active partners in innovation ecosystems while maintaining scientific excellence and academic values.

Some words about Innovation Office and UBI:

Umeå Innovation Office and Umeå Biotech Incubator jointly support innovation and industry collaboration at Umeå University across the entire life-science value chain. Umeå Innovation Office works closely with researchers to identify innovation potential, manage intellectual property, and mature innovative ideas, while Umeå Biotech Incubator helps translate these ideas into scalable companies through business development, coaching, and industry networks. Together, they form a continuous support structure that enables research to move from academic excellence to real-world societal and economic impact.

## Umeå University Support



#### CONTACT

General questions UBI: [andreas.lindberg@ubi.se](mailto:andreas.lindberg@ubi.se)

General questions Innovation Office: [charlotta.sundin@umuholding.se](mailto:charlotta.sundin@umuholding.se)

#### MORE INFORMATION

<https://www.ubi.se>

<https://www.umu.se/innovation-office/>



### A place for ideas to land and take off

The Innovation Office offers innovation support to researchers at Umeå University who want to explore how their research can create benefit for society - without having to leave academia. Through consulting, legal support, and verification funding, we help you develop, protect, and test your idea in a way that strengthens your research and its continued development.



#### CONTACT

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#### MORE INFORMATION

<https://www.innovationoffice.se>

<https://www.innovationoffice.se/researcher>



### Building blocks of support in research data management for researchers at Umeå University

Olivia Ekman a, Amalia Juneström a, Elisabeth Mach b, Fredrik Granström c, Stina Lindh b, Erik Thorsten b, Theresa Kieselbach a, Kristoffer Lindell a

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c)Umeå University, IT-support and System development, 90187 Umeå, Sweden

New technologies have had a profound impact on research progress in the life sciences. Examples include sequence analysis of nucleic acids, the polymerase chain reaction, ionization techniques for biological macromolecules, cryo-electron microscopy, and CRISPR-Cas genome editing (Nobel Prizes in Chemistry 1980, 1993, 2002, 2017, and 2020). These advances generate large and complex datasets, increasing the need for effective research data management (RDM). SciLifeLab has developed infrastructure platforms that provide researchers with access to cutting-edge technologies. At Umeå University, SciLifeLab includes, for example, a laboratory for cryo-electron microscopy, the Swedish Metabolomics Centre, and the Swedish NMR Spectroscopy Centre.

Having an opportunity to get support from these infrastructure platforms is a great asset for researchers at Umeå University. As a large proportion of the funding for these infrastructures and their staff comes from public sources, researchers have a responsibility to maximize societal value from the research. That includes good research practice and the effort to create FAIR data that can be used again in future research (The Swedish Research Council, 2024; Wilkinson et al., 2016). High-quality FAIR data are, for instance, considered to be very important for the development of future AI tools in life science.

Meeting the demands of good research practice and creating high-quality FAIR data is complex. It often requires expertise beyond laboratory research. For example, the European Code of Conduct for Research Integrity states that researchers, institutions, and organizations have a responsibility to ensure appropriate stewardship, curation, and preservation of all data, metadata, protocols, and research materials (ALLEA, 2023).

Umeå University recognizes these demands and has established a network for RDM support to help researchers comply with national laws and policies for good research practice and Open Science. The building blocks of this network include a website that provides comprehensive information on RDM (Umeå University, 2025). In addition, the University Library, the Office for Legal Affairs and Information Management, and IT Support and System Development collaborate to support researchers in addressing research data management challenges.

That can, for instance, be legal advice, advice for data storage and FAIR-data. This poster provides an overview of the key building blocks of research data management support at Umeå University and its broader ecosystem.

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#### MORE INFORMATION

<https://www.umu.se/en/researcher/plan-and-implement/manage-research-data/plan-your-data-management/data-management-plan/>



## Advantages of MetaboLights for creating FAIR-data and for rethinking scholarly communication in Open Science

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Open Science aims to modernize publicly funded research by making scientific practices more transparent and accessible. This is by ensuring that research outputs, such as data, publications, and other results, can be easily accessed, shared, and reused, increasing the efficiency and impact of research. Two central areas of Open Science are open access to scientific publications and the availability of research data generated through publicly funded projects.

Research data plays a dual role in the policies for Open Science. On the one hand, underpin the findings of scientific publications, and access to them is essential for ensuring transparency of publicly funded research. On the other hand, research data are an asset for future investigations, which is why researchers are expected to document their results in a standardized way, that support their long-term reusability. The FAIR-guiding principles (Wilkinson et al., 2016) provide a framework on how researchers can describe and give access to their research data. The goal of following these principles is to ensure that other stakeholders can find and access research data and retrieve it in a form that is both interoperable and reusable.

As for research in metabolomics, the trusted MetaboLights repository at EMBL-EBI (Yurekten et al., 2023) provides researchers the tools and the infrastructure necessary to put the FAIR-guiding principles into practice. Researchers can make their metabolomics data accessible and describe them using domain-specific metadata, creating metadata profiles that fulfill the recommendations of the FAIR-data principles. To understand how effectively these principles are being implemented, we have used the publications of the Swedish Metabolomics Centre (SMC) as a test, to learn how researchers who received support from the SMC put the FAIR data principles into practice. Our analysis showed that while some researchers submitted their data to MetaboLights and to other repositories, most researchers shared a large part of their data in the form of supplementary material. In most cases, researchers did not give access to their raw data (Kieselbach et al., 2025).

We also examined what we could do to support researchers in metabolomics research to take better advantage of the MetaboLights repository, both to apply the FAIR-guiding principles to their metabolomics data and to take advantage of it in their scholarly publication strategies. In this poster, we present the current results of this work.

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## How data management plans assign roles in data governance

Theresa Kieselbach

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Since 2020, the Swedish Research Council requires researchers to write data management plans for the projects that get funding from the council. Other funders like FORMAS and Forte followed and want researchers to write data management plans for the projects that they fund. Researchers consider data management plans frequently as an additional administrative burden that takes away time for research. They may not always be aware that they are part of an overarching system for data governance and have defined roles and duties in this system. A data management plan is a tool that one can use to clarify roles and duties in data management, ethics and law compliance in a specific research project, and from this perspective it is a tool for data governance. This poster gives an overview of the principal areas of an ecosystem for Open Science, its stakeholders and how they relate to data governance and the sections of a data management plan.

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# Research data support team

### University-wide research data support team

The University has a university-wide, cross-disciplinary support team for research data management that supports you with research data issues in **data risk assessment, data IT, open data, and information security.**

Use the QR code below to contact the team.

**For individuals providing support for research data management**  
Do you wish with research data support of a department? Then you can join the University's network for research data support.

Use the QR code below to request more information.

### Department support from your department

Some departments at the University offer local support services in managing research data. Your department offers local research data support. This is the first place to address your questions about research data. In some cases, local support may refer you to the research data support team.

### Swedish National Data Service (SND)

The Swedish National Data Service (SND) is a consortium of 10 of the highest education institutions, of which Umeå University is one. SND is a national research infrastructure with expertise in the management and accessibility of research data.

Find information about research data management at Umeå University at <https://www.umu.se/en/research/plan-and-organise/manage-research-data/>

Use the QR code to get in touch with the research data support team.



UMEÅ UNIVERSITY



For more information specific to researchers scan QR code

# Useful tools

For research data management

Conduct information classification and risk and vulnerability analysis before starting your research project to form the basis for research data management. They are tools to choose the right security level for your IT systems and IT services as well as other security enhancing measures. There are several templates.

Use the template for **documenting security assessment** when sharing research data with Swedish authorities such as public higher education institutions.

Use Umeå University's template **Folder structure** to simplify your work with organizing research data and associated documents and make it easier to find research data on storage.

In the **DMPonline** tool, you can easily create a **data management plan** and update it regularly to create different versions as needed. You can share the plan with others and choose whether it should be available publicly.

**Research data registry** where you register your project and you describe data using metadata (such as information about what the data includes and their origin).

**Software and services** that are provided by Umeå University and used with research security measures and correct agreements and licenses.

Find more information about the templates and tools that are available.



UMEÅ UNIVERSITET



For more information specific to researchers scan QR code

## SciLifeLab Support

## SciLifeLab Infrastructure Support

### Services provided by our national research infrastructures

At SciLifeLab, we provide access to a range of pioneering technologies in molecular biosciences. Together, our capabilities enable the scientific endeavours of users from academia, industry and health care. Dedicated staff scientists can offer support throughout the experimental process – from study design to data handling.

Regardless of your particular field of work, you are welcome to seek support from units at SciLifeLab. Most of our technologies are agnostic to applications, meaning they can be used to address questions in a range of life science disciplines, e.g. precision medicine, ecosystem surveillance and evolutionary biology.

Curious about cost and prioritization models and waiting times for analyses? These differ between units – please get in touch directly with your unit of interest for more information.

#### Explore our infrastructure

Genomics	<a href="https://www.scilifelab.se/genomics/">https://www.scilifelab.se/genomics/</a>
Proteomics	<a href="https://www.scilifelab.se/proteomics/">https://www.scilifelab.se/proteomics/</a>
Metabolomics & Exposomics	<a href="https://www.scilifelab.se/metabolomics-and-exposomics/">https://www.scilifelab.se/metabolomics-and-exposomics/</a>
Spatial Omics	<a href="https://www.scilifelab.se/spatial-omics/">https://www.scilifelab.se/spatial-omics/</a>
Cellular & Molecular Imaging	<a href="https://www.scilifelab.se/cellular-and-molecular-imaging/">https://www.scilifelab.se/cellular-and-molecular-imaging/</a>
Structural Biology	<a href="https://www.scilifelab.se/structural-biology/">https://www.scilifelab.se/structural-biology/</a>
Chemical Biology & Genome Engineering	<a href="https://www.scilifelab.se/chemical-biology-and-genome-engineering/">https://www.scilifelab.se/chemical-biology-and-genome-engineering/</a>
Drug Discovery	<a href="https://www.scilifelab.se/drug-discovery/">https://www.scilifelab.se/drug-discovery/</a>
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#### MORE INFORMATION PLEASE VISIT

<https://www.scilifelab.se/infrastructure/#h-infrastructure-organization>



## DDLS Program

### SciLifeLab & Wallenberg National Program for Data-Driven Life Science

The future of life science is data-driven, providing major new opportunities to explore and understand biology, human health and changing ecosystems. The SciLifeLab & Wallenberg National Program for Data-Driven Life Science (DDLS) is set up to make use of these opportunities. Data-driven life science is a field of research that focuses on using data, computational methods and artificial intelligence to study biological systems and processes. Read more about the four strategic DDLS research areas, joint research projects, and our Fellows.

#### Opportunities

The SciLifeLab and Wallenberg National Program for Data-Driven Life Science (DDLS) will train and recruit the next generation of data-driven life scientists and create strong and globally competitive computational and data science capabilities in Swedish life science.

#### Take part in forming a research community of world-leading caliber

As a DDLS Fellow, you will be recruited directly to the participating organization, which means you'll be able to utilize its strong local research environment and unique capabilities. At the same time, you're connected to the national DDLS program, and you take part in forming a strong, interdisciplinary community with researchers working with the rapidly expanding resources and needs of open data in life sciences, creating synergies for the entire life science ecosystem.

You'll also be connected to SciLifeLab's infrastructure – spanning technologies and expertise within everything from genomics, metabolomics and spatial omics, to drug development, diagnostics, single cell biology and bioinformatics – and the dynamic research community formed around it.

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#### MORE INFORMATION PLEASE VISIT

<https://www.scilifelab.se/data-driven/>



## SciLifeLab Group Leaders

### SciLifeLab Group Leaders

SciLifeLab Group Leaders are key members of our national organisation, driving advancements in life science through collaborative research, infrastructure development, and data innovation.

A SciLifeLab Group Leader is defined as a community member who plays a key role in SciLifeLab's development, locally and/or nationally. This role is based on strong contributions to the objectives of the national SciLifeLab organization.

Nominations for the SciLifeLab Group Leader status are for a four-year term, after which re-evaluation occurs every four years to ensure the criteria are still met. Nominations can be submitted by the candidate (self-nomination) or following an invitation by a SciLifeLab founding university or site committee member.

The annual call for SciLifeLab Group Leader application 2026 will preliminarily open in June 2026.

#### Opportunities & benefits

When formally designated a SciLifeLab Group Leader (and research group), the Group Leader is able to take part of a number of opportunities within the SciLifeLab ecosystem, a number of which are presented below.

- Be invited to participate in SciLifeLab and community meetings and outreach efforts
- Get visibility in SciLifeLab channels
- Have access to tailored SciLifeLab Group Leader events and funding calls
- Boost recruitments with SciLifeLab Careers

#### CONTACT

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#### MORE INFORMATION PLEASE VISIT

<https://www.scilifelab.se/research/group-leader-definition/>

<https://www.scilifelab.se/contact/group-leaders/>



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## Posters and Roll-ups

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National Bioinformatics Infrastructure Sweden (NBIS)	jeanette.tangrod@umu.se	27	26
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**General SciLifeLab questions**

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