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Words from the Director Trevor Forsyth

There has been a lot of activity at LINXS recently. The first [AMBER recruitment call](#) has just gone out – this will result in the recruitment of 16 three-year postdoctoral positions in various areas of biological imaging. These positions will be held at Lund, EMBL, IMOL (Poland), Leicester University, and ESS. Please feel free to pass on the links to this call to interested people - they are extremely attractive positions in exciting new areas of science!



In addition, the call for new LINXS themes has just closed. There have been several strong stage 1 applications; these will be prioritised by the LINXS Scientific Advisory Board (SAB) before successful applications are invited to proceed to the second stage of the process.

LINXS welcomes [two new members in its management team](#): Anna Stradner (Lund University Department of Chemistry) is the new Vice-Director for Soft Matter, replacing Marie Skepö. Emanuel Larsson from the Lund University Medical Faculty is the new Co-Director for Life Sciences, replacing Oxana Klementieva. We are enormously grateful to Marie and to Oxana for their great contributions over the years.

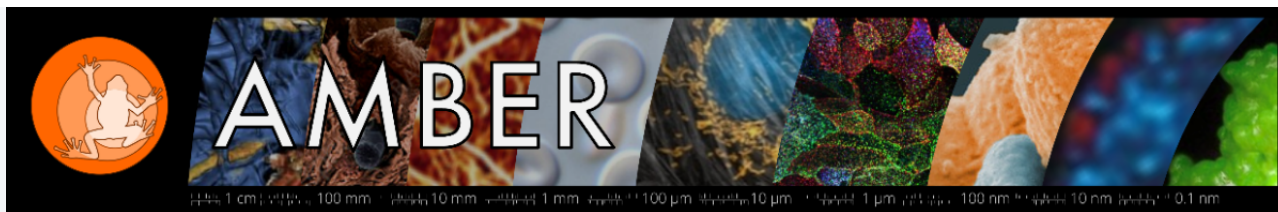
The new three-year mandate period of the LINXS Board started in January under the leadership of Stacey Ristinmaa Sörensen. We are extremely grateful to the previous Board Chair, Anders Tunlid, for his dedicated and professional work on behalf of LINXS. We also thank Heiner Linke, Kajsa M. Paulsson, and Ulf Olsson for their work as part of the Board. They have all played key roles in helping LINXS get to where it now is - well positioned nationally and internationally, with a vibrant set of thematic activities, strong cohorts of young researchers in all the major focus areas, and perched for a crucially important move on to the Science Village by the end of the year!

In January, we welcomed the start of an external review to LINXS, assigned to assess the value of the stakeholder investments in LINXS, and its progress and effectiveness against its goals and its national and international remit. The evaluation process has been extremely rigorous, and we are glad to welcome it for its constructive and progressive scrutiny of the role that LINXS plays in exploiting the large-scale infrastructures in Sweden and to which Sweden subscribes.

The next few months will be very busy. Please be sure to register early for our forthcoming events, which you can see at the bottom of the newsletter. There are Young Researchers' Symposia on [life sciences](#) and on [chemistry of life](#) respectively, as well as Theme activities within [IPDD](#), [Heritage Science](#), [Northern Lights on Food](#), [Environment and Climate](#), and [Chemistry of Life](#). Also of note is the closing conference of the [New Materials theme](#), which is organised during LINXS Science Day in April.

We also share some interviews and articles from our recent theme activities in this newsletter.

We are looking forward to seeing you at LINXS during the coming months!



AMBER's first postdoctoral fellowship recruitment call is open!

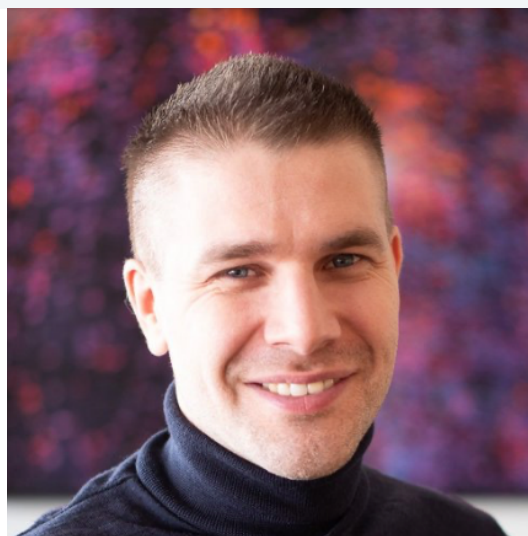
The EU-funded research project AMBER, coordinated by LINXS, has opened its first round of postdoctoral fellowship positions, with **a deadline of 18th of March 2024**. AMBER, Advanced Multiscale Biological imaging using European Research infrastructures, will address scientific and sectoral gaps in biological imaging ranging from molecular, through cellular, to tissue, organ and organism levels of organisation.

16 postdocs will be recruited in the first call, with each fellowship lasting 36 months. Scientists holding (or about to receive soon) a PhD in the areas of physics, chemistry, medical sciences, biological sciences, or other relevant areas are welcome to apply.

[Read more about the AMBER call](#)



Anna Stradner, new
LINXS Vice-Director



Emanuel Larsson,
new LINXS Co-

We are delighted to welcome Anna Stradner to the new role of Vice Director at LINXS. She is responsible for the focus area of Soft Matter. Anna is a Professor at the Division of Physical Chemistry at Lund University, specialising on biocolloids studied by scattering techniques.

- I want to continue to establish LINXS in its unique role as an essential catalyst to exploit the co-location of Lund University, MAX IV and ESS for the sake of the national and international community in general, and for the Soft Matter community in particular.

[Read about Anna's new role at LINXS](#)

Director

We are happy to welcome Emanuel Larsson to the new role of Co-Director at LINXS. He is responsible for the focus area of Life Science. Emanuel works as a Researcher at the Department of Experimental Medical Science at the Faculty of Medicine, Lund University.

- I look forward to further strengthening the imaging aspect at LINXS, by emphasising the benefit of conducting lab-based X-ray imaging pre-studies before going to a large-scale facility like MAX IV and ESS, and increasing the post experiment users' support around image analysis and visualization.

[Read about Emanuel's new role at LINXS](#)



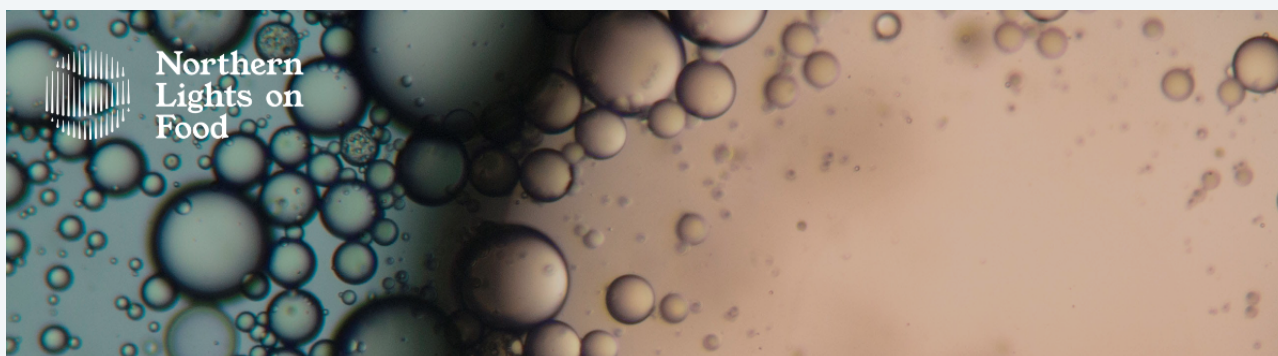
The Chemistry of Life theme is already

creating value

Theme leader Andrew Hudson couldn't be happier with how the theme has progressed since it started in September 2023. Already the theme's network has facilitated a research grant application to UK Research & Innovation involving collaboration between researchers from Leicester University, Lund University and MAX IV.

– Before we even had our first core group meeting, we managed to get this proposal sent off, which is related to alternative RNA splicing and how it is regulated by RNA-binding proteins. We want to study these processes at MAX IV, with Small-angle X-ray scattering, and build on the research we have already done using single molecule microscopy and Nuclear Magnetic Resonance (NMR) spectroscopy, says Andrew Hudson, Professor of Biophysical Chemistry, Institute for Structural and Chemical Biology, University of Leicester, UK.

[Read an article about the Chemistry of Life theme](#)



Food Structure and Health: from research question to beamtime proposal and beyond

Welcome to a workshop with the Northern Lights on Food Theme! During two days, experts will give introductions to neutron/X-ray facilities and guide you on how to write a winning beamtime

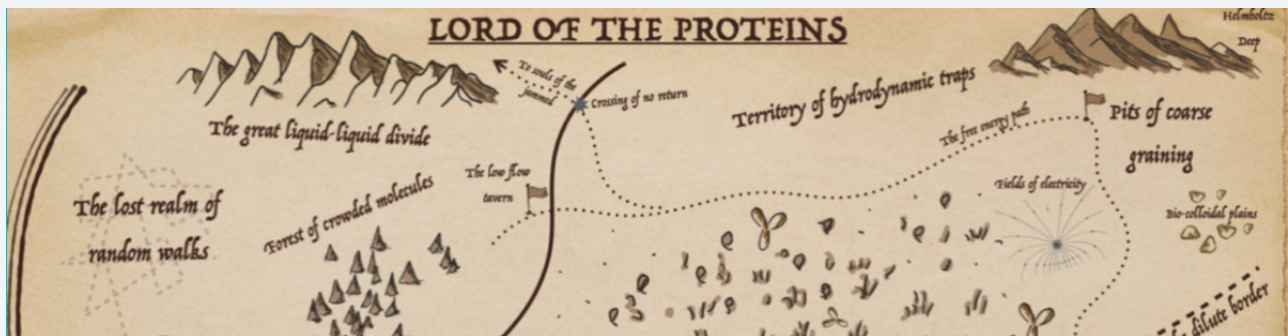
18-19
March

REGISTER

proposal!

When: 18–19 March, including mingle at LINXS in the evening of 18/3

Where: Workshop room on the 5th floor of LINXS (Scheelevägen 19), Lund, Sweden



Watch all the webinars in the Antibodies in Solution LINXS-NIST webinar series!

Started in late 2022, with an aim to give insights into the fascinating world of antibody research and the use of scattering methods, the Antibodies in Solution LINXS-NIST webinar series is going from strength to strength.

With each webinar attracting around a hundred registrations and up to 60 – 70 actual participants, the series is receiving high appreciation from both speakers and attendees. So far ten talks have been organised, with the ambition to have one every month.

– Progress in understanding complex biomolecules such as antibodies in solution requires an interdisciplinary approach and collaboration of experimentalists and theoreticians with different scientific backgrounds from academia and industry. This initiative aims to create a common basis through didactical lectures in order to enable a successful future collaboration in this important field of research, says Anna Stradner, Professor at Physical Chemistry, Lund University, and working group

leader.

Take the opportunity to view **all the previous webinars**, and see **what is coming up next** on LINXS website!

[Watch the webinars and read about the webinar series](#)

Happening at LINXS in spring 2024!

See all our thematic events, LINXS activities, and related activities!

19

Feb

Heritage Science theme

- Workshop: From Idea to Project Proposal for beamtime access

[Register](#)

27-

29

Feb

LINXS related

- Workshop on Advanced X-ray characterization technologies in Earth Sciences

[Register](#)

28

Feb

LINXS event

- Q&A session on AMBER's postdoctoral call

[More information](#)

29

Feb

LINXS partner event

- Workshop: Human Perception and

Advanced Visualization of 3D Medical Imaging Data

[Register](#)

1

March

LINXS Guest Seminar

- Data-driven modeling of the intrinsically disordered proteome with Giulio Tesei

[Register](#)

4

March

Environment and Climate theme

- LINXS Guest Seminar with Jack Lin, University of Oulu

[Register](#)

6

March

Antibodies in Solution, IPDD theme

- a LINXS - NIST webinar series with Yun Liu

[Save the date](#)

7

March

LINXS Guest Seminar

- Advanced spectroscopic studies of C-H bond activating enzymes and molecular catalysts with Serena DeBeer

[Register](#)

18-

19

Northern Lights on Food theme

- Food Structure and Health: From research question to beamtime proposal

March

and beyond

[Register](#)

8-

12

April

LINXS related

- Fluctuations in Soft Matter: Theory Meets Experiment at Large-Scale Research Infrastructures – LINXS related

[Register](#)

10

April

Antibodies in Solution, IPDD theme

- a LINXS - NIST webinar series with Robin Curtis

[Save the date](#)

14-

19

April

LINXS outreach

- 19th Food Colloids Conference: Using colloids science to find new sustainable solutions in food

[Register](#)

15-

16

April

LINXS Young Researchers' Symposium II

- Life Sciences

[Save the date](#)

22

April

LINXS Science Day on New Materials

- New Materials Theme Closing Conference

Save the date

**25-
26**
April

Environment and Climate theme

- Workshop: The role of certain metals in organic matter mobilization and decomposition

Save the date

7-8
May

IPDD theme

- Workshop: Neutron scattering in drug discovery, design, and formulation

Save the date

**13-
17**
May

LINXS partner event

- Helios Graduate School

Save the date

**27-
29**
May

Northern Lights on Food theme

- Northern Lights on Food Conference V - Boosting structural food science

Register

**30-
31**
May

Chemistry of Life theme theme

- Chemistry of Life: Young Researchers' Symposium

Save the date

4-**11**

June

LINXS related

- Bombannes 2024 summer school
"Scattering Methods Applied to Soft
Condensed Matter" - LINXS related

[Register](#)**10-****14**

June

LINXS related

- Neutrons & Food 7 Conference

[More information](#)**16-****20**

June

LINXS partner event

- Coherence 2024: 11th International
Conference on Phase Retrieval and
Coherent Scattering

[Register](#)**23-****27**

June

LINXS related

- 5th Summer School on Neutron
Detectors and Related Applications

[More information](#)**MORE EVENTS**

X-ray and neutron related news

APPLY: POST-DOCTORAL FELLOW IN PHYSICAL CHEMISTRY WITH FOCUS ON THE

SMALL-ANGLE NEUTRON SCATTERING BEAMLINE AT ESS



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