

Lund Integrative Structural Biology Centre Initiative



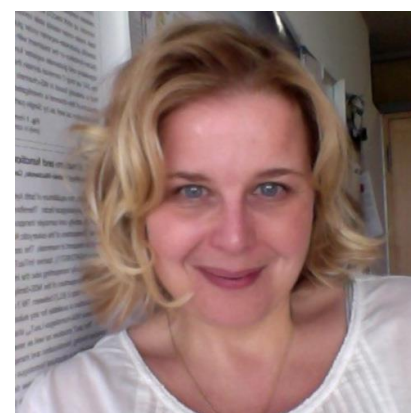
Karin Lindkvist



Susanna Törnroth-Horsefield



Thomas Ursby



Christine Ziegler



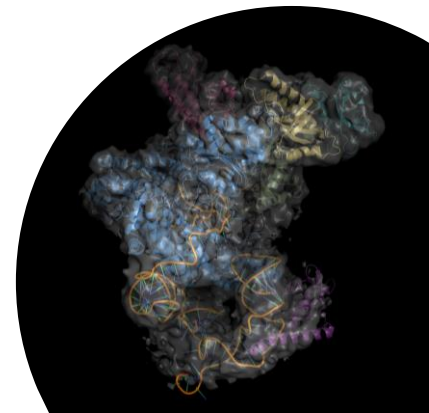
Trevor Forsyth

Lund Integrative Structural Biology Centre Initiative

Aim

Investigate if there is an interest among researchers in Lund in a future **Integrative Structural Biology Centre** placed at Brunnshög.

Today the structural biology community in Lund is strong but spread out at different faculties and different buildings within the Lund campus. With the construction of both MAX IV and ESS and the future Science Village at Brunnshög the working group aims to investigate if there is an interest in the Lund area of the creation of a structural biology centre placed at Brunnshög. By organising workshops, different aspects of a Brunnshög centre can be better understood which will help making the ideas concrete.



ISBC invited speakers



Andrea Thorn, HARBOR,
Universität Hamburg



Montserrat Soler Lopez,
ESRF/PSB, Grenoble



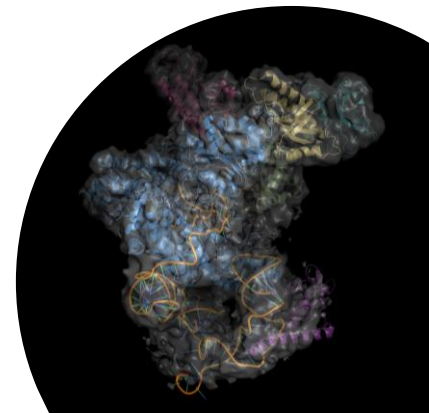
Martin Hällberg,
CSSB, Hamburg



Marco Marcia,
EMBL/PSB, Grenoble

Points that were discussed at the workshop on 18th February 2021

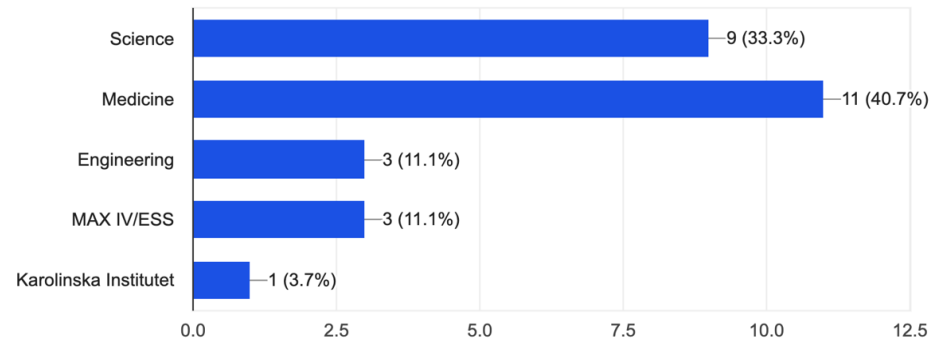
1. What structural biology techniques would be valuable at a future ISBC in Lund?
2. What would be the added value with an ISBC for your research?
3. How would you see such a centre to be organized?
4. Would you be interested in having your research activity in such a center?



Survey results

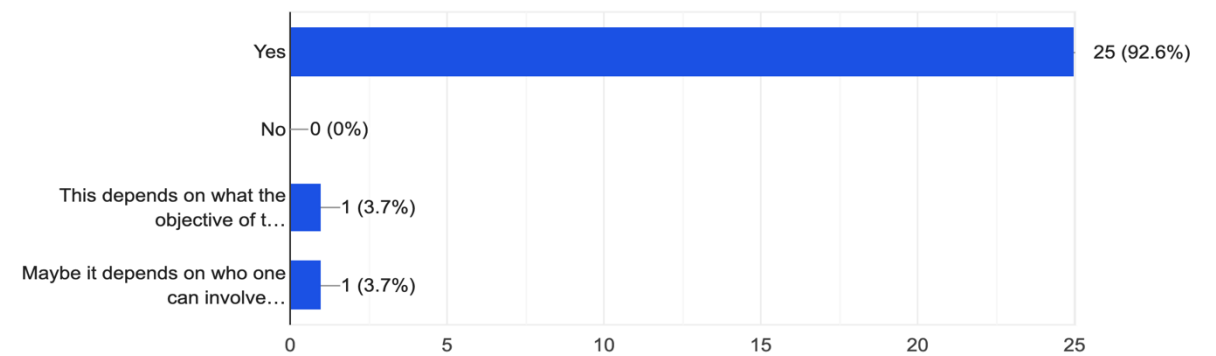
1. What faculty/organization do you belong to?

27 responses

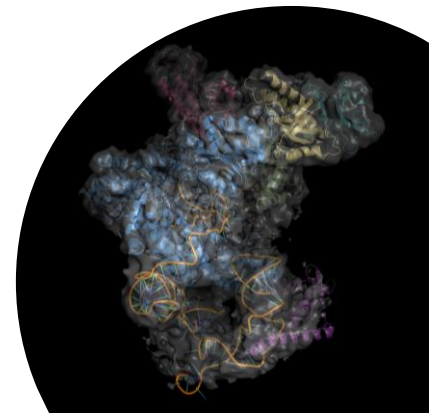


2. Do you think a future ISBC at Brunnshög should be established?

27 responses



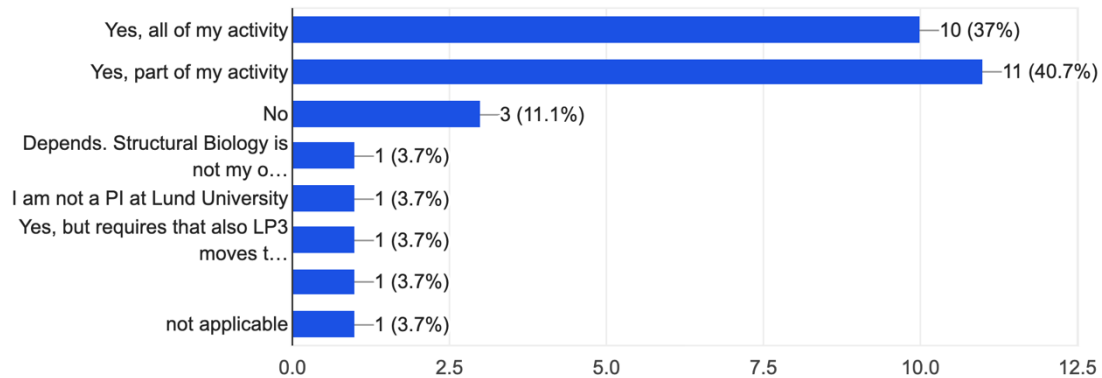
Total 27 respondents



Survey results

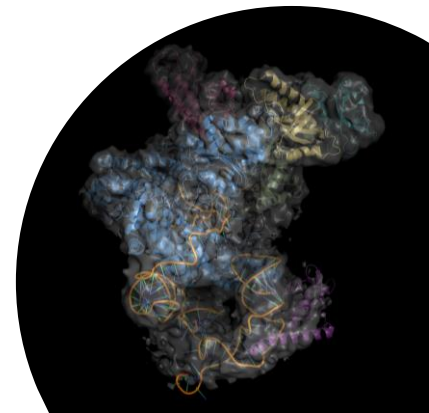
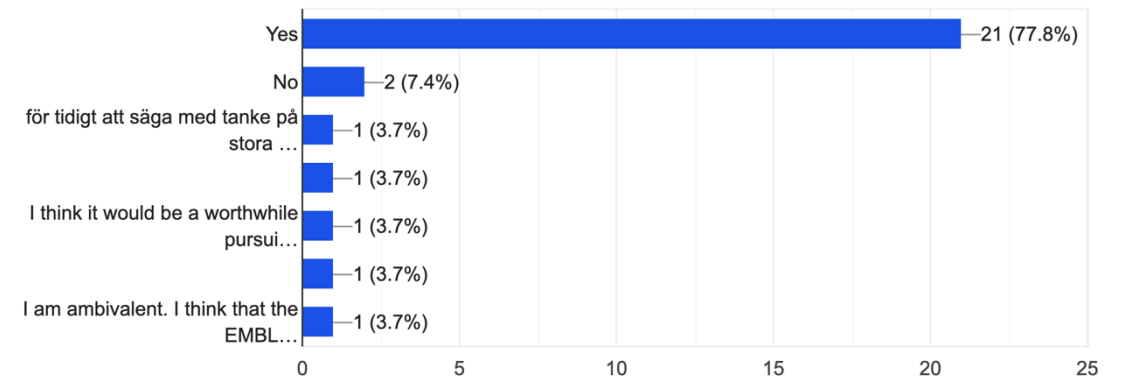
3. Would you like to move any of your research activity to a future ISBC at Brunnsbög?

27 responses



5. Based on what we currently know, do you think we should pursue an EMBL partnership lab in Lund?

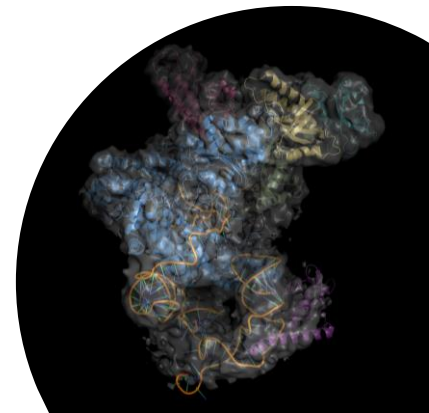
27 responses



ISBC today

Johan Malmström (MS)
Mikael Akke (NMR)
Cedric Dicko (SAXS/SANS)
Thomas Ursby (MAX IV)
Susanna Horsefield (X-ray, cryo-EM)
Vasili Hauryliuk (cryo-EM)
Derek Logan (X-ray, cryo-EM, SAXS, NMX)
Lotta Happonen (MS, cross-linking)
Simon Ekström (MS, cross-linking)
Gemma Atkinson (bioinformatics)
Ulf Ryde (simulations)
Esko Oksanen (ESS, NMX)
Wolfgang Knecht (LP3)

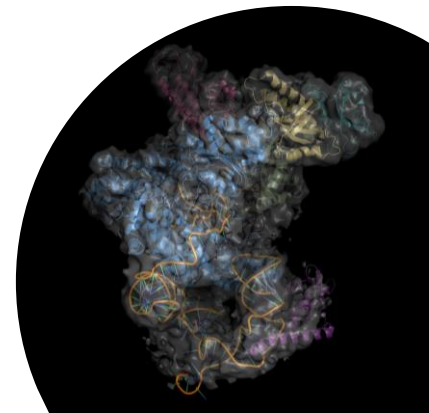
Representing three faculties at LU,
several structural biology techniques, as
well as methods platforms.



What is going on now?

Letter to the Deans about our vision....

- What research groups will move to a future ISB building? **Approx. 15 research groups identified so far.**
- Will LP3 move to a future ISBC? **Yes**
- Students - a structural biology PhD program? Undergraduate level? **Yes**
- What will the connection be to LINXS? **Strong interactions, sabbaticals can be offered, lab space etc.**
- Administration/organization? **Dual affiliation model**



Lund Integrative Structural Biology Centre Initiative



LUND UNIVERSITY
Faculty of Medicine

Experimental Medical Science/ Medical Structural Biology
Professor Karin Lindkvist

2021-08-24

Lund

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Letter sent to vice-deans
of research at faculties
N, M and LTH on 24th
August 2021

The vision for an Integrative Structural Biology Centre at Lund University

The community of structural biologists at Lund University is pleased to present its vision for the future establishment of an Integrative Structural Biology Center (ISBC) at Science Village (SV). Our vision is to establish a Research Center in close vicinity to MAX IV and ESS that will provide unique opportunities for synergy and stimulate scientific collaborations within the area of integrative structural biology. ISBC will be a cross-faculty entity, including research groups from the Faculties of Science (N), Medicine (M) and Engineering (LTH), as well as ESS. ISBC will perform research, methods development, teaching, and outreach.

The major aims of ISBC are to

- create a critical mass of researchers with complementary expertise
- serve as a hub for integrative structural biology in Lund
- coordinate initiatives with other actors in the area of structural biology, including
 - MAX IV
 - ESS
 - LINXS
 - SciLifeLab, especially its platform for Integrated Structural Biology
- colocate technical platforms enabling integrative structural biology, including
 - LP3
 - DEMAX
 - FragMAX
 - Cryo-EM
 - BioMS
- develop cross-faculty Masters- and PhD-level education programs and courses

Prof. Karin Lindkvist
Medicinsk Fakultet

Assoc. Prof. Derek Logan
Naturvetenskaplig fakultet

Prof. Mikael Akke
LTH

Karin Lindkvist *Derek Logan* *Mikael Akke*

