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LP3 and PPS

Lund Protein Production Platform
Protein Production Sweden

Dr. Wolfgang Knecht (LP3)

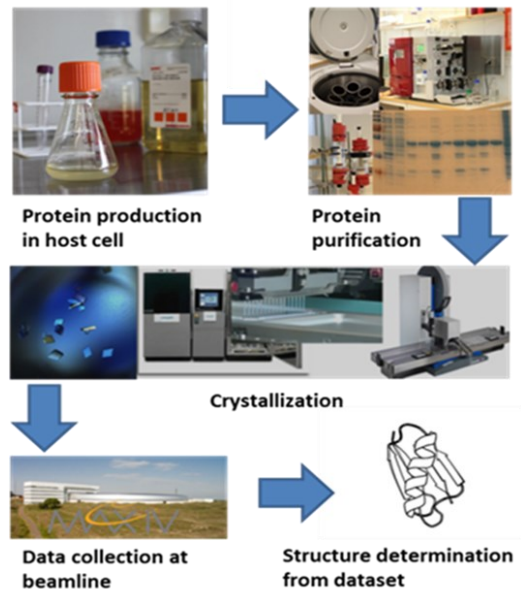
MAX IV Strategy workshop: Structural Biology



Lund Protein Production Platform (LP3)

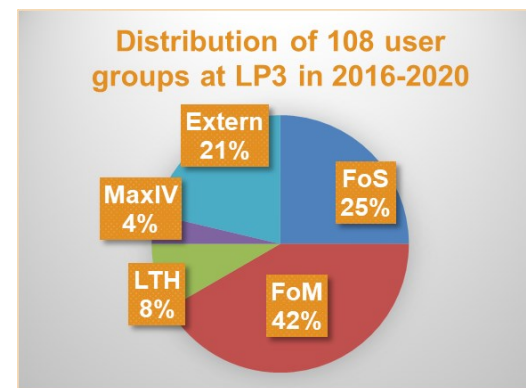
(www.lu.se/lp3)

LP3 is a cross-faculty center of Lund University for **protein production** and **crystallization** and **structure determination**



Service to Researchers at Lund University

- Or possibility to stay at LP3
- Focus on non-experts in protein sciences




Connecting the Protein Science Community at Lund University

- Instrument placements at LP3 (e.g. DSF, Omnisec)

Lund Protein Production Platform (LP3)

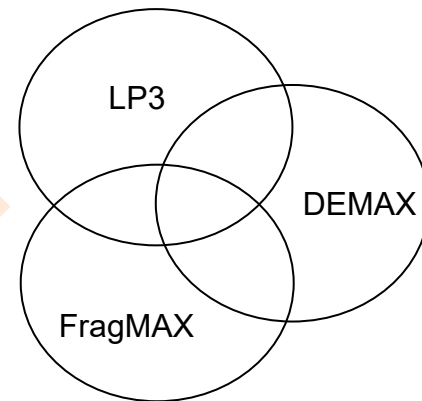
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Gateway Environment to MAX IV and ESS

- FragMAX  FragMAX
MAX IV Laboratory
- Co-localisation with DEMAX (Deuteration and Macromolecular Crystallisation)
- Crystallisation / structure determination at LP3



**shared
laboratories**



One contact point between three organisations

Protein Production Sweden (PPS) - 2022

PPS will be a national Swedish infrastructure for **protein production**



GÖTEBORGS UNIVERSITET



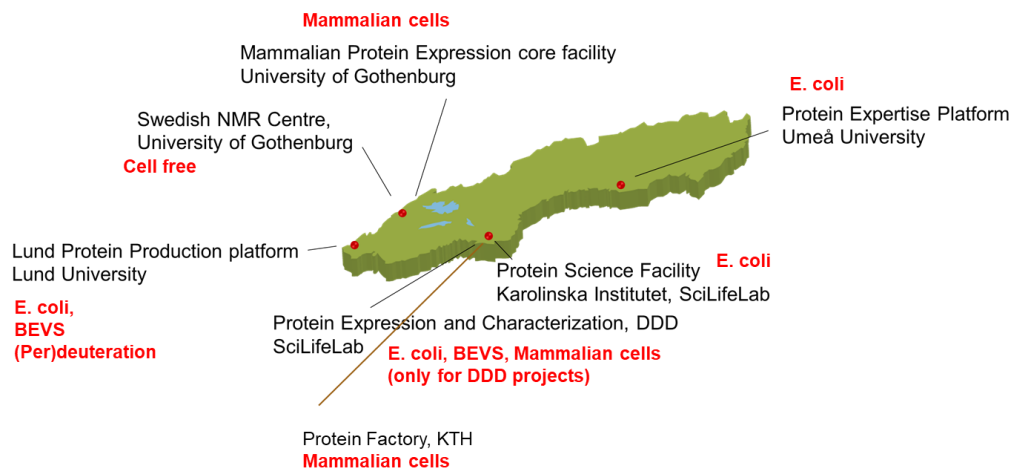
Karolinska
Institutet



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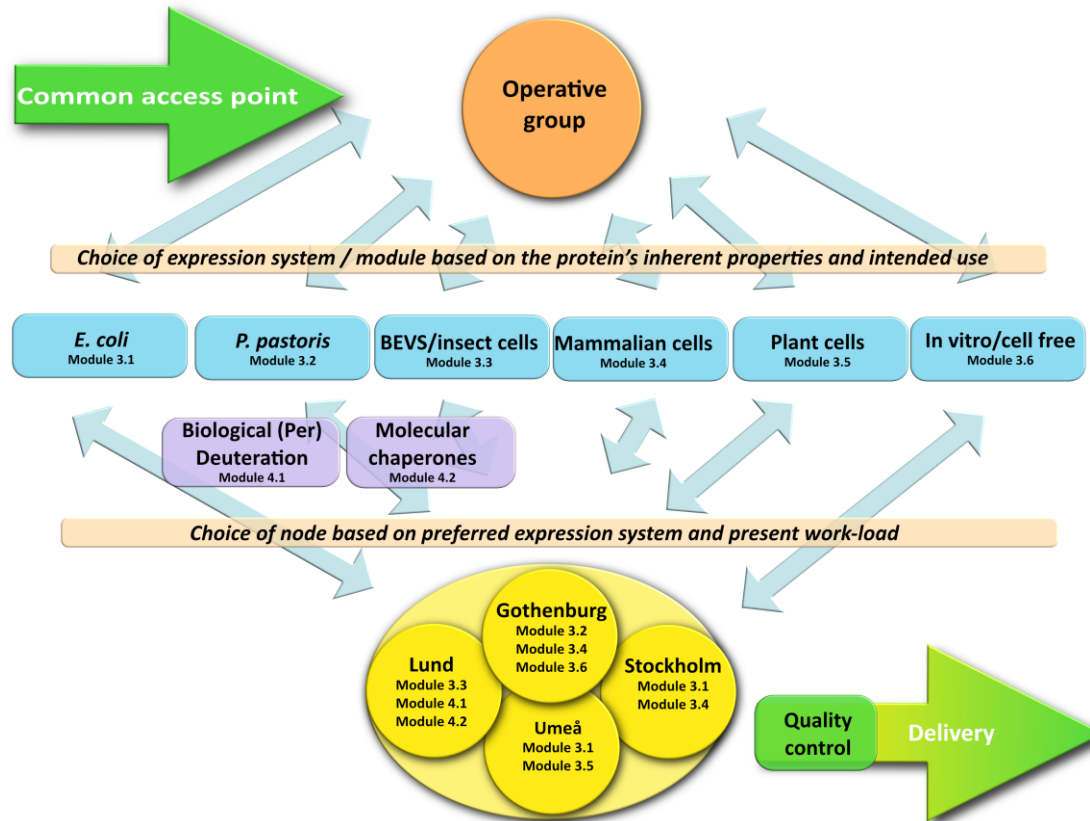
Originating from the PPNS (<https://ppns.ki.se>)



PPNS

The Protein Production Network Sweden (PPNS) is an informal network formed in 2013 between protein production facilities at Swedish universities. The overall aim is to make competence and protein production methodologies available to the Swedish academic life science community and to make best use of our available resources.

Protein Production Sweden (PPS) - 2022



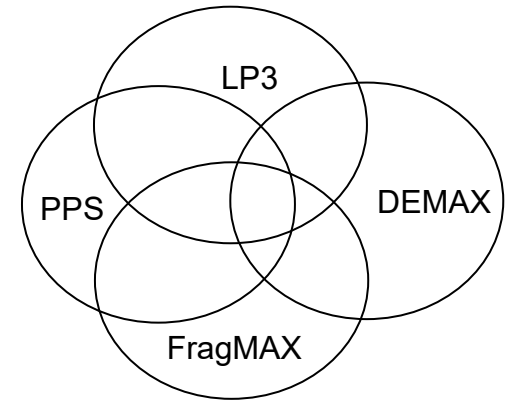
- **6 expression systems**
- **2 Gateway environements**
- **Purification and quality control at each node**

LP3 will contribute with BEVS and the two Gateway modules

LP3 and PPS (2022 – 2026....)



**shared
laboratories**



➡ **One contact point between **four** organisations**

How to develop this contact point for the best of MAX IV?

How can MAX IV contribute to the development?

How should MAX IV interact with PPS?



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