Welcome to the Protein Production Core Facility

The Protein Production Core Facility offers all steps of protein production consisting of the mutagenesis and cloning of target genes in expression vectors, their heterologous expression in prokaryotic and eukaryotic hosts, as well as the subsequent purification of the corresponding proteins as a service. In addition to the full service, in which the employees of the facility carry out the work, the users can carry out the work in the facility under the supervision of the facility team. The service includes advice on the selection of suitable strategies, the provision and optimization of suitable protocols, the instruction and use of the required equipment and the provision of the required vectors, cell lines, chromatography materials and all necessary consumables.

Specifically, the following services are provided:

- Cloning and mutagenesis
- Cultivation of prokaryotic and eukaryotic cells of risk group R2 or security level S2
- Transformation of prokaryotic cells
- Transfection of insect cells and mammalian cells
- High-throughput heterologous expression screening in E. coli and insect cells in plate format
- Heterologous expression in E. coli, insect cells and mammalian cells
- Cell harvest and cell lysis
- Ultracentrifugation and cell membrane isolation
- Protein purification using Äkta Pure chromatography devices
- Development and optimization of protein purification protocols
- Automation of protein purification protocols
- Biochemical characterization (SDS/native PAGE, IEF, Western Blotting)
- Biophysical characterization (stability measurements using microscale thermophoresis)
- E. coli strain collection
- Expression vector library
- NEB freezer

The facility is a fee-for-service (non-profit) technology platform. We provide support and expertise for local scientists, the international research community and users from industry. All users must follow a safety training before working in our laboratories. All users are required to undergo training before access to the individual instruments is granted. Currently the biosafety training is given onsite. Please get in touch with us to discuss your specific needs. More information can be found in the User Guidelines section.

Please acknowledge any substantial contributions of the PPCF to your research in publications. Please state the following in the acknowledgement section of your publication: “We acknowledge technical support by the PP facility at CSSB Hamburg”. Please don’t forget to let us know when you publish papers that acknowledge us. This will help us keep track and to justify the existence of the facility to funding bodies.
Our Team

<table>
<thead>
<tr>
<th>Susanne Witt</th>
<th>Philipp Lewe</th>
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<tbody>
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<td><strong>Room:</strong> O1.239</td>
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Frequently asked questions

- How to use our confluence...
- Highlight important documentation.

Need more help?

- Link to resources such as your service desk, questions & answers or a forum.
- List contacts for getting additional help.

Recently updated articles

- **NEB Freezer**
  Feb 10, 2021 11:51 • updated by Philipp Lewe • view change

- **TEV Protease**
  Jan 27, 2021 14:58 • updated by Susanne Witt • view change

- **BacMid Preparation with DH10Bac**
  Jan 22, 2021 10:39 • updated by Philipp Lewe • view change

- **TB Media Expression in E.coli**
  Jan 12, 2021 11:22 • updated by Philipp Lewe • view change

- **LB Media Expression in E.coli**
  Jan 12, 2021 11:21 • updated by Philipp Lewe • view change

- **Auto Inducing Media Expression in E.coli**
  Jan 12, 2021 11:21 • updated by Philipp Lewe • view change

- **ExpiSf9 Transient Transfection with PEI40**
  Dec 09, 2020 12:17 • updated by Philipp Lewe • view change

- **Antibody Library**
  Dec 03, 2020 14:50 • updated by Philipp Lewe • view change

- **Heat Shock Transformation in E.coli**
  Dec 02, 2020 08:08 • updated by Philipp Lewe • view change

- **VD0009 - pFloBtM II**

Browse by topic

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- apoferritinpurification
- cells
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- endophpurification
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- expression