

# 1st Berlin-BioTECH Symposium “Difficult to Express Proteins”



Start Time: Tuesday, December 10, 2024

End Time: Wednesday, December 11, 2024

Versuchs- und Lehranstalt für Brauerei in Berlin (VLB)  
e.V., Seestraße 13, 13353 Berlin, Germany

## About the Symposium

Recombinant proteins are the most important biotechnological products. They are particularly important for medical and biotechnological applications. As almost any chemical reaction can be catalyzed by proteins under mild conditions, they represent an environmentally friendly alternative to chemical synthesis. In order to meet the demand for the required proteins, appropriate bioprocesses must be developed for their efficient and cost-effective production on an industrial scale. On the one hand, *Escherichia coli* is a promising host for heterologous protein production as it can be grown very fast to very high cell densities, on the other hand heterologous production of many interesting proteins is challenging and they are considered as “difficult-to-express-proteins”. Within the symposium we want to address such challenges e.g. formation of disulfide bonds, non-canonical amino acids, glycosylation, production of membrane proteins, metalloproteins or super large proteins.

The symposium aims to bring about 60-80 scientists from the field together and will especially focus on interesting expression systems and strategies. We will open up room to bring researchers together to discuss possible solutions for tackling these challenges.

## Topics

- Strain engineering
- Strain libraries
- Cell free systems
- Disulfid bonds
- Selenoproteins
- Elastines
- Metalloproteins
- Protein engineering

**Organizers:** BioProScale e.V. & [Bio-PAT e.V.](#) in cooperation with [Prof. Dr. Peter Neubauer](#),  
Chair of [Bioprocess Engineering](#), TU Berlin

**Registration** (Participation & Sponsoring): <https://eveeno.com/176255980>

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**More information:** <https://www.tu.berlin/bioprocess>

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