

Dipl.-Ing.

Thomas Hartmann

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## EDUCATION

- Since **University of Technology, Vienna**  
03/2022 Doctoral program at the Research Division Biochemical Engineering
- 04/2014 – **University of Technology, Vienna**  
04/2019 Master studies in Technical Chemistry, Biotechnology and - analytics  
Title of master thesis: Influence of the growth on the specific penicillin production rate during fermentations with the filamentous fungus *Penicillium chrysogenum*
- 10/2009 – **University of Vienna**  
09/2013 Bachelor studies in Biology, Molecular Biology  
Title of bachelor thesis: Neuroprotective effects of Thymoquinone in cellular Rotenone models for Parkinson`s disease

## PROFESSIONAL EXPERIENCE

- Since **University of Technology, Vienna, Research Group for Integrated Bioprocess Development**  
03/2022 Project assistant
- Cultivation of *Synechococcus elongatus*
  - Isolation and purification of the photosynthetic apparatus
  - Encapsulation of photosynthetic subunits into liposomes

- 11/2020 – **Competence Centre CHASE GmbH, Vienna**  
 02/2022 Scientific associate
- Cultivation of *Escherichia coli*
  - Optimization of refolding processes
- 03/2020 – **University of Technology, Vienna, Research Group for Bioprocess Technology**  
 12/2020 Scientific project assistant
- Strain testing and cultivation of *E. coli* in 0.5 L scale
  - Product purification and analytics
- 06/2019 – **University of Technology, Vienna, Research Group for Bioprocess Technology**  
 10/2019 Scientific project assistant
- Preparation for the cultivation of CHO cells
  - Analytics of metabolites and products
- 10/2016 – **University of Technology, Vienna, Research Group for Bioprocess Technology**  
 06/2017 Scientific project assistant
- Cultivation of *P. chrysogenum*
  - Process evaluation

## INTERNSHIPS

- 03/2016 – **University of Technology, Vienna , Research Group for Bioprocess Technology**  
 08/2016 Master thesis internship
- Planning, preparation and execution of cultivations with *P. chrysogenum* (10 L and 20 L scale)
  - Analytics and evaluation of process data
- 08/2015 **University of Technology, Vienna , Research Group for Synthetic Biology and Molecular Biotechnology**  
 Full-time internship
- Transformation of *Trichoderma reesei*
  - Usage of several techniques typically for molecular biology, like PCR, southern blot or northern blot
- 07/2015 **University of Technology, Vienna , Research Group for Bioprocess Technology**  
 Full-time internship
- Fermentation with *P. chrysogenum* under oxygen limited conditions
  - Evaluation of the experiment
- 07/2014 – **University of Technology, Vienna , Research Group for Bioprocess Technology**  
 08/2014 Full-time internship
- Implementation of alkaline phosphatase activity assays
  - Planning and evaluation of experiments using the program “MODDE”

07/2013 – **University of Veterinary Medicine, Vienna, Institute of Medical Biochemistry**

09/2013 Bachelor thesis internship

- Isolation and cultivation of primary cell cultures
- Microscopy

## **PUBLICATIONS**

11/2017 Ehgartner, D., Hartmann, T., Heinzl, S., Frank, M., Veiter, L., Kager, J., ... & Fricke, J. (2017). Controlling the specific growth rate via biomass trend regulation in filamentous fungi bioprocesses. *Chemical Engineering Science*, 172, 32-41.