

Ebner Julian

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Citizenship: Austria



PROFESSIONAL EXPERIENCE

TU Wien

PhD candidate at the IBD Group of Prof. Spadiut

Vienna, Austria
Dec 2019 –

- Preliminary Title: "Quality by Design strategies in Inclusion Body processing"
- Integrated process development for Inclusion Body processing of different Proteins
- Development of screening approaches and analytical strategies for downstream processing unit operations
- Supervision of interns as well as BSc and MSc students
- Tutor of laboratory courses "Bioprocess Technology and Bioanalytics" and "Orientation course for beginners in chemistry"

Involvement in cooperation with industrial partners:

m2p-labs:

- Investigation of a controlled small scale refolding environment in the Biolector (48-well plates)

Boehringer Ingelheim RCV:

- Influence of fermentation conditions on inclusion body quality and refolding behavior

Biomin:

- Analysis of the early downstream processing steps for a soluble enzyme produced in *E. coli*

Mongolian University of Science and Technology (MUST)

Summer intern

Ulaanbaatar, Mongolia
Aug 2018 – Sep 2018

- Food Research Center
- Chemical analysis of food and bioactive compounds
- Optimization of a HPLC method for the determination of vitamins in medicinal plants

Biomay AG

Summer intern

Vienna, Austria
Jul 2017 – Sep 2017

- Pre-GMP development for the upstream processing of Plasmids and Proteins
- Fed-Batch Fermentation (5 L scale)
- Cell disruption (Homogenization, Precipitation, Filtration)
- Process optimization of a tangential flow filtration system

TU Wien, Institute of Chemical Engineering

Summer intern

Vienna, Austria
Jul 2016 – Oct 2016

- IBD Group of Prof. Spadiut
- Downstream processing of Inclusion Bodies
- Freezing effects on monoclonal antibodies in scale down systems

Krankenhaus der Barmherzigen Schwestern Linz

Summer intern

Linz, Austria
Jul 2013 – Jul 2013

- Assisted in preparation and analysis of blood and urine samples
- Insight into the organizational work required for the laboratory

Red Cross Walding

Voluntary work as paramedic in the Ambulance / Rescue service

Walding, Austria
Apr 2012 – Nov 2012

Red Cross Walding

Civilian service (paramedic)

Walding, Austria
Aug 2011 – Apr 2012

EDUCATION

TU Wien*MSc in Technical Chemistry**Specialization in Biotechnology and Bioanalytics*

- Master Thesis at the IBD Group of Prof. Spadiut: "Development of a refolding and capture protocol for horseradish peroxidase inclusion bodies produced in *E. coli*"
- Ebner, J., Humer, D., Spadiut, O., Patent No. EP20165131.2, Methods for producing heme peroxidases

Vienna, Austria

Apr 2017 – Feb 2021

TU Wien*BSc in Technical Chemistry*

- Bachelor Thesis at the Institute for Biochemical engineering: "Downstream Processing of recombinant Horseradish Peroxidase Inclusion Bodies from *Escherichia coli*"

Vienna, Austria

Oct 2012 – Sep 2017

Khevenhüller Gymnasium Linz*Austrian state exam***Linz, Austria**

Sep 2003 – Jun 2011

SKILLS & CERTIFICATIONS

Languages: German (native), English (fluent)**Programs:** MS Office: Word, Excel, PowerPoint; DataLab, MODDE, Chromeleon, Lucullus**Scientific publications in peer-reviewed journals**

Ebner, J.; Humer, D.; Klausser, R.; Rubus, V.; Pell, R.; Spadiut, O.; Kopp, J. (2021) At-Line Reversed Phase Liquid Chromatography for In-Process Monitoring of Inclusion Body Solubilization. *Bioengineering*, 8, 78. doi.org/10.3390/bioengineering8060078

Kittler, S.; Besleaga, M.; **Ebner, J.**; Spadiut, O. (2021) Protein L—More Than Just an Affinity Ligand. *Processes* 2021,9, 874. doi.org/10.3390/pr9050874

Kastenhofer J., Cataldo A.L., **Ebner J.**, Sedlmayr V.L., Jungbauer A., Spadiut O. (2021) Economic and ecological benefits of a leaky *E. coli* strain for downstream processing: a case study for staphylococcal protein A. *Journal of Chemical Technology & Biotechnology*, doi: 10.1002/jctb.6691

Ebner, J., Humer, D., Spadiut, O., (2020) Scalable high-performance production of recombinant horseradish peroxidase from *E. coli* inclusion bodies. *International Journal of Molecular Sciences* 21, 1-20. doi: 10.3390/ijms21134625

Kopp, J., Zauner, F., Pell, A., Hausjell, J., Humer, D., **Ebner, J.**, Herwig, C., Spadiut, O., Slouka, C., Pell, R., (2020) Development of a generic reversed-phase liquid chromatography method for protein quantification using analytical quality-by-design principles. *Journal of Pharmaceutical and Biomedical Analysis* 188, doi: 10.1016/j.jpba.2020.113412

Conferences

11/2021 Oral Presentation at International Conference on Analytical and Bioanalytical Methods: "At-line monitoring principles via reversed phase: A case-study for inclusion body solubilization"

04/2019 Scientific Poster at BioProcess International Europe: "Optimization of a horseradish peroxidase inclusion body process in a refolding reactor vessel"

10/2018 Participation in "KHURELTOGOOT 2018" 14th International Conference of Technology and Innovation of Young Researchers