University of Natural Resources and Life Sciences Vienna
Department of Biotechnology

Open Position for Doctoral thesis

Title: Bioprocess optimization for small molecule production

Project: Bioseparation is a critical step in biopharmaceutical manufacturing. It employs polymeric adsorbents decorated with affinity ligands to increase the selective capture of target biological products. The EU-funded PURE project aims to develop precisely functionalized adsorbents using principles of scalable biotechnological processes. The project focusses on the high-level bioproduction of small molecules for selective capture.

Requirements: We request a completed Master's degree or Diploma from a recognized University in Biology/Biotechnology/Biochemical Engineering/Chemical Engineering or related fields. Laboratory experiences in the following areas are required:

- Molecular biology and/or synthetic biology
- Experience in bioprocess development (fed-batch fermentation)
- Basic protein and biomolecule analytics
- Basic knowledge in chemistry is a plus

- You will enrol at the University of Natural Resources and Life Science, Vienna (BOKU) preferably in the Doctoral Program BioProEng (https://boku.ac.at/docservice/doktoratsstudien/doktoratsschulen/bioprocess-engineering-bioproeng)
- Your supervisor will be Professor Alois Jungbauer (https://boku.ac.at/personen/person/4482E653E2B4C1B3), the co-supervisor is Dr. Birgit Wiltschi
- Command in German is not necessary, but we expect fluent English.

Funding: The doctoral thesis is funded be the Horizon 2020 Program PURE

- Minimum yearly gross payment of EUR 30,800 (PhD 30 h/week).
- Start March 2021

Applications should be sent to Petra Polak by e-mail petra.polak@boku.ac.at

Prof. Alois Jungbauer

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Dr. Birgit Wiltschi
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