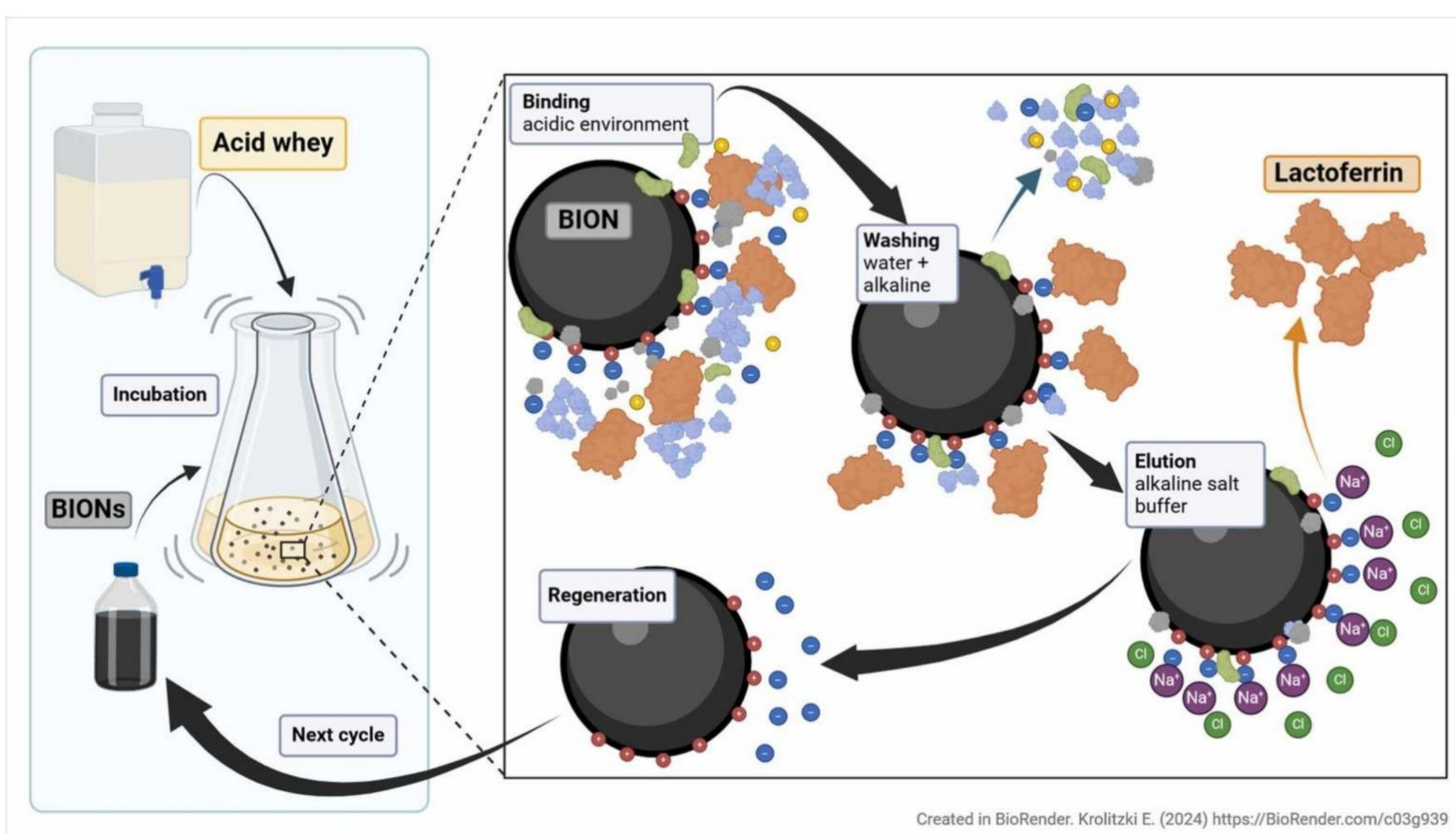


Masterthesis

Purification of Proteins from complex Feedstocks using Magnetic Nanoparticles

Project Description

In this research project, antibodies should be purified from a highly complex matrix for later application in the food and cosmetic industry. Therefore, precipitation and bare iron oxide nanoparticles are combined for efficient processing. The focus of this work will be the optimization and robustness analysis of this process. Therefore, different parameters need to be investigated like:



- Process optimization
- Scale-up to pilot scale
- Reusability of the BION
- Robustness analysis

Your Tasks/Methods

- Large scale purification
- Precipitation
- Filtration
- Analytics
 - SDS Page
 - Various assays
- Magnetic nanoparticles

Your Profile

- Independent and structured way of working
- Experience with laboratory work
- Student in the field of biotechnology, biochemical engineering chemistry or similar

Contact

Start: From now

Language: German/English

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