

Thomas M.B. Reichhart, Ph.D. Student

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Summary

Ambitious researcher with an innovative mindset and passion for protein engineering.

- **Early Stage Researcher at DirectSens GmbH** — a Vienna Biotech startup focusing on biosensor technology
- **Fellow of the Marie Curie Scholarship** — an Innovative Training Network (ITN) of the EU Commission
- **PhD Student in Biotechnology** — graduate school “Biomolecular Technology of Proteins” (BioToP)
- **M.Sc. in Biochemistry** — majored in protein structural biology and graduated *summa cum laude* (top 5%)

Education

Vienna University of Life Sciences (BOKU)

Vienna, AT

PhD Student — Vienna Institute of Biotechnology

since 10/2019

- Graduate School: Biomolecular Technology of Proteins (BioToP)
- Thesis: Development of Switchable Carbohydrate Dehydrogenase for 3rd Generation Implantable Biosensors
– Advised by Prof. Roland Ludwig (Biocatalysis and Biosensing Research Group)

Johann Wolfgang Goethe-University

Frankfurt, DE

M.Sc. Biochemistry — *summa cum laude* (grade: 1.1 — top 5%)

12/2018

- **M.Sc. Thesis (1.0):** “Structural and Functional Investigation of the Reductant ABC Transporter CydDC”
- **Majors:** Advanced Biophysical Chemistry (1.0) and Bioinformatics (1.0) focused on Structural Biology
- **Fellow** of the German Scholarship (BMBF) and Internatinalization Scholarship Program (JWGU)

B.Sc. Biochemistry — *summa cum laude* (grade: 1.2 — top 4%)

09/2015

- **Bachelor Thesis (1.0):** “Expression und Purification of ABCE1 from *Thermomyces lanuginosus*”

Graf-Stauffenberg-Gymnasium

Flörsheim, DE

Abitur — *with Honors* (grade: 1.5 — top 7%)

07/2012

- Received the *DMV- and GDCH-Abitur-Award* as best graduate in Mathematics (0.7) and Chemistry (1.0)

Experience

DirectSens GmbH

Vienna, AT

Early Stage Researcher — R&D

since 10/2019

- Project: Enzyme engineering of cellobiose dehydrogenase for implantable glucose biosensors
- Methods: enzyme engineering via directed evolution and rational design approaches

Commerz Business Consulting GmbH

Frankfurt, DE

Visiting Associate — Digital Strategy Development

- Regulatory affairs: Participation as consultant in the regulatory implementation of PSD2 (EU 2015/2366)
- SCRUM implementation: establishing the agile working method SCRUM at the customer side
- Market analysis: Strategic evaluation of >100 FinTechs in the field of e-commerce and API banking

Max-Planck-Institute of Biophysics

Frankfurt, DE

Graduate Researcher — Molecular Membrane Biology (Master thesis)

06–12/2018

- Protein Quality: improved thermostability by >50% using Differential Scanning Fluorimetry™ (DSF)
- Protein Analytics: investigated ligand binding properties using Microscale™ Thermophoresis (MST)
- Protein Structure: facilitated the determination of a high-resolution structure (~6 Å) using cryoEM

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Experience (continued)

Wetsus European Centre of Excellence for Technology Leeuwarden, NL

Fellow Abroad — Biofilm Research 02–05/2018

- Semester abroad financed by the internationalisation scholarship of the Goethe University
- verified the feasibility of a novel biofilm model system using rheological assays and data analytics
- developed an automated data model in Excel for efficient evaluation of large experimental data sets

Fresenius Medical Care Deutschland GmbH Bad Homburg, DE

Intern — Care Innovation & Scientific Affairs 04–12/2017

- performed literature research and economic evaluations of innovative methods (*e.g.* assays, devices)
- supported the planning, preparation, conduction, evaluation, and publication of (pre-)clinical studies
- assisted in the analytical/statistical evaluation and visualisation/reporting of recent clinical trial data

Extracurriculars

Innovative Training Network “ImplantSens” Vienna, AT

Student Ambassador — Supervisory Board

- elected student representative in the supervisory board of the training network
- setup and organised a weekly Journal Club as an education measure for the consortium

Enactus University Frankfurt e.V. Frankfurt, DE

Board Member and Head of Innovation 2018 – 2019

- recruited, trained, and managed the ‘Innovation Resort’ – an interdisciplinary project team of 13
- initiated and directed the development and launch of four new social-entrepreneurial projects
- designed and implemented a growth strategy for 2018-19 (members: +10%; projects: +2)

Student Consultant — Project “App IRMGARD” and Innovation Resort 2017 – 2018

- worked in an interdisciplinary team to develop, finance, and market an e-learning App for illiterates
- developed and launched an online marketing strategy reaching >1.000 people a week on social media
- applied for various social funding programs and collected over 20.000 € of financial subsidies

Studenten bilden Schüler e.V. Frankfurt, DE

Honorary Tutor — Chemistry, Biology, and Mathematics 2017 – 2019

- tutored students from low-income families & consulted parents how to improve students’ performance

Skills and Interests

Languages **German** (*native*), **English** (*fluent, TOEFL C1*), **Dutch** (*basics*), **Latin/Old Greece** (*high school*)

Computer **MS Office** (*expert*); **Python, OriginLab, Prism** (*advanced*); **VBA** (*basics*)

Competitive sports **Natural Bodybuilding** (2011 – 2014) and **Powerlifting** (2014 – 2016)

- exercised 6x/week under supervision of world-class athlete Nicolas Rojas
- Vice champion in Teenage class (2011); 4th place in Juniors class (2013)

Leisure **Passionate athlete** (weightlifting, yoga, running, hiking) • travelling • vegetarian cooking