

Curriculum vitae

Personal Details

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Scientific Achievements at a glance

- **160 peer-reviewed scientific publications (79 corresponding authorships)**
- **h-index 32 (scopus on 07.07.2023)**
- **42 invited talks at international scientific conferences**
- **5 patents**
- **Associate Editor for *J. Biotechnol.***
- **Book Editor “Inclusion Bodies” in Springer Nature**
- **peer-reviewing for 82 scientific Journals**
- **Member of the Faculty Board of TU Wien since 2015**
- **Member of the Study Commission “Technical Chemistry” since 2019**
- **total funding acquired = 9.8 Million Euros**

Education

04/15	Habilitation (<i>venia docendi</i>) in Biotechnology
08/15-10/15	Visiting scientist at the Laboratoire Interdisciplinaire de Physique LIPHY, University Joseph Fourier, Grenoble, France
10/99-11/08	Study “Food Science and Biotechnology” at the University of Natural Resources and Life Sciences BOKU, Vienna, Austria
11/08	Ph.D. degree (Dr. nat. techn.) graduated with distinction
05/07-11/07	Visiting scientist at the Chemistry Department, University of British Columbia UBC, British Columbia, Canada
01/06-11/08	Ph.D. Thesis at the Division of Food Biotechnology
07/05	Master of Science graduated with distinction
11/04-05/05	Visiting scholar at the School of Biotechnology, Suranaree University of Technology SUT, Nakhon Ratchasima, Thailand
10/99-07/05	Master study

Professional Experience

07/22	Honorary Professor at the University of Applied Sciences IMC FH Krems (https://www.fh-krems.ac.at/)
10/21	Co-founder and scientific advisor of the TU Wien Spin-Off company NovoArc GmbH (https://www.novoarc.at/)

- 09/10-present **employed at** the Research Division of Biochemical Engineering at **TU Wien**, Vienna, Austria
 since 08/23 **Professor** “Integrated Bioprocess Development” at TU Wien
 since 06/22 **Head of Research Area** Biochemical Engineering at TU Wien
 since 06/18 **Associate Professor**
 12/16-05/18 **Assistant Professor**
 since 01/15 **Group Leader** “Integrated Bioprocess Development”
 09/10-12/16 **University Assistant**
- 01/09-09/10 **Post-Doc** at the Division of Glycoscience at the Royal Institute of Technology KTH, Stockholm, Sweden
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Awards

- 08/22 **Top 10 candidate for the S&B Award** (Bridging Science and Business Award) conferred by the Rudolf Sallinger Fonds (<http://sallingerfonds.at/die-sallinger-preise/sb-award/top-10-sb-award-2022/>)
- 06/22 **Sustainability Award 2022** (2nd and 3rd place) conferred by Umweltdachverband GmbH (<https://www.umweltbildung.at/startseite.html>)
- 06/22 several **awards for excellent teaching** at TU Wien at the **ProDidactica 2022 and Best Teaching Award** (<https://www.fsch.at/bachelor/pro-didactica/>)
- 10/21 Winner of **VERBUND X Accelerator 2021** (<https://www.verbundx.com/>)
- 05/20 **Top 10 candidate for the S&B Award** (Bridging Science and Business Award) conferred by the Rudolf Sallinger Fonds (<http://sallingerfonds.at/die-sallinger-preise/sb-award/top-10-sb-award-2020/>)
- 03/20 **Sustainability Award 2020** (2nd place) conferred by Umweltdachverband GmbH (<https://www.umweltbildung.at/startseite.html>)
- 07/19 **Förderungspreis der Stadt Wien** in der Sparte Mathematik, Informatik, Naturwissenschaft und Technik (<https://www.wien.gv.at/kultur/abteilung/ehrunen/foerderungspreis>)
- 02/19 **i2c Award 2019** (<https://i2c.tuwien.ac.at/startacademy-awards/>)
- 07/18 **Wirtschaftskammerpreis 2018** (<https://www.wko.at/site/bildungspolitik/wirtschaftskammerpreis-2018.html>)
- 08/12 **“Achievement Award”** conferred by Novartis for developing a business concept for a biotechnology company during BioCamp 2012
- 08/12 selected participant in the **Novartis International Biotechnology Leadership Camp (BioCamp 2012)** (<http://www.novartis.com/careers/biocamp/index.shtml>)
- 05/12 **“Paper of the Month Award”** conferred by the scientific magazine LABORWELT (<http://www.laborwelt.de/>)
- 09/09 **“Award for excellent PhD Thesis 2009”** conferred by the Austrian Association of Molecular Life Sciences and Biotechnology ÖGMBT (<http://www.oegmbt.at>)
- 04/09 **“Research Award 2009 for Young Scientists”** conferred by the AGRANA Group Austria (<http://www.agrana.com>)

- 03/09 **“Award for Excellent PhD Thesis 2008”** conferred by the University Fellowship Organisation Austria (Allgemeine Hochschulstipendienstiftung Österreich)
- 05/05 Award for **“Outstanding Success in Study”** conferred by the University of Natural Resources and Life Sciences BOKU, Vienna
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Teaching at a glance

- 18 courses at TU Wien (since 2010)
 7 courses at IMC FH Krems (since 2016)
 1 course at FH Technikum Wien (2012 - 2023)
 2 courses at Johannes Kepler Universität Linz (2019 - 2022)

Teaching at TU Wien

- Studieneingangsgespräch
 Orientierungslehrveranstaltung (LU 1.5 h)
 Bioverfahrenstechnik - Downstream Processing (VO 2.0 h)
 Einführung in die Biotechnologie und Bioverfahrenstechnik (VO 1.0 h)
 Biochemie Seminar (SE 1.0 h)
 Biochemie und Biotechnologie (LU 3.5 h)
 Biologie und Genetik industrieller Mikroorganismen (VO 1.5 h)
 Bioprozess Technologie und Bioanalytik (LU 5.0 h)
 Modelling and Methods in Bioprocess Development (VO 2.0 h)
 Biotechnologie für Verfahrenstechniker (LU 2.0 h)
 Journal Club Biosciences (SE 1.0 h)
 Literatursuche für ChemikerInnen (VU 2.0 h)
 Wahlübungen Bioverfahrenstechnik (LU 4.0/6.0/8.0 h)
 Seminar zur Bachelorarbeit (SE 3.0 h)
 Bachelorarbeit (UE 12.0 h)
 Bachelorarbeit (LU 12.0 h)
 Seminar zur Diplomarbeit (SE 1.5 h)

- Nominated for:**
- Best Lecture Award 2018 and 2023**
 - Best Distance Learning Award 2020, 2021 and 2022**
 - Best Teacher Award 2019, 2020, 2022 and 2023**
 - Sonderpreis Digital Teaching 2022**
 - Finalist Best Teacher Award in the Faculty of Chemistry 2022**

Teaching at IMC FH Krems

- Bioprocess Technology (VO 3.0 h)
 Journal Club (VO 1.0 h)
 Research Semester Preparation (SE 2.0 h)
 Fermentation and Bioseparation Laboratory (LU 4.0 h)
 Scientific Skills and Writing (VO 2.0 h)
 Fermentation of Complex Hosts Systems (VO 1.0 h)
 Fermentation Technology Laboratory (LU 7.0 h)
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Projects (total funding acquired = 10.8 Million Euros)

Projects at a glance

- FWF 5 projects (1.4 Mio €)
 FFG 13 projects (1.7 Mio k€)

WWA	1 project (270 k€)
EU	4 projects (880 k€)
CD Laboratory	Module Leader in Downstream Processing (320 k€) Laboratory Head (3.2 Mio €)
Industrial R&D	34 projects (3.4 Mio €)

List of projects

since 2023	Christian Doppler Laboratory "Inclusion Body Processing 4.0" with Boehringer Ingelheim RCV
since 2023	Industrial Project "IL processing" with Miltenyi Biotec
since 2023	Industrial Project "Proteins for LNPs" with Anjarium Biosciences AG
since 2023	Industrial Project "Cultivations" with Valanx GmbH
since 2022	Project Partner in the FFG COMET Center "Hydrogen Research Centre Austria"
since 2022	Industrial Project "Hemoglobin" with Planeat Foods PTE LTD
since 2022	EU HORIZON-HLTH Project "Enviromed"
since 2022	EU HORIZON-EIC Project "PAT4CGT"
since 2022	Industrial Project "Hybrid Interferon $\alpha 1,8$ " with pharma& GmbH
since 2021	FWF International Scientific Project "Digital twin-assisted process design for NK-cell therapies" I5910 funded by the Austrian Science Fund FWF (http://fwf.ac.at/asp/projekt_res.asp)
since 2021	Industrial Project "Continuous USP with Bacillus" with BASF
since 2021	Industrial Project "Interleukin Inclusion Body generation and processing" with Miltenyi Biotec
since 2021	FFG Project "INTRAL" (FFG 37246991) with Baxalta, Sandoz and SCCH
since 2021	FFG Project "BI(U)SY" (FFG 880555) with Bisy GmbH
since 2021	Industrial Project "Membrane proteins in yeast" with Syngenta
since 2020	FWF International Scientific Project "CO ₂ fixation in extreme conditions" I4508 funded by the Austrian Science Fund FWF (http://fwf.ac.at/asp/projekt_res.asp)
2023	FFG Innovationscheck with DirectSens GmbH
2022-2023	Industrial Project "Lactate Dehydrogenase" with DirectSens GmbH
2022-2023	FFG Innovationscheck with Vienna Textile Labs GmbH
2022-2023	FFG Innovationscheck with NovoArc GmbH
2022	FFG Innovationscheck with myBIOS GmbH
2022	Industrial Project "HRP from <i>E. coli</i> " with MOMM Diagnostics
2022	Industrial Project "Archael lipids" with Evonik Industries
2022	Industrial Project "HRP from <i>E. coli</i> " with Thermo Scientific GmbH
01.08.2023	

- 2022 **Industrial Project** “green H₂ production” with VERBUND
- 2021-2022 **Industrial Project** “Pegasys” with Loba GmbH
- 2021-2022 **EU Interreg Project** “PlastoCyan” ATCZ260
- 2019-2022 Faculty Member of the **TU Wien Doctorate Program** “Bioactive” (<https://bioactive.tuwien.ac.at/home/>)
- 2019-2022 **FFG Project** “EIS für Fabs – ein neuartiger elektrochemischer Biosensor zur Überwachung von Antikörperfragment-Produktionsprozessen“ (FFG 874206) with Alfred Gruber GmbH
- 2017-2022 **FWF Stand Alone Scientific Project** “Recombinant horseradish peroxidase for targeted cancer treatment” P30872-B19 funded by the Austrian Science Fund FWF (http://fwf.ac.at/asp/projekt_res.asp)
- 2021 **Industrial Project** “Optimization of an inclusion body process” with ZETA GmbH
- 2021 **Industrial Project** “Mutants” with Medac GmbH
- 2021 **Industrial Project** “Fermentation filamentous fungus” with bisy GmbH
- 2019-2021 **FFG Project** “Triggering leakiness in a novel proprietary enGenes-X-press *E. coli* strain” (FFG 872643) with enGenes GmbH
- 2020-2021 **FFG Innovationscheck** with BDI GmbH
- 2020-2021 **Industrial Project** “Inclusion Body Processing - Follow up” with Boehringer Ingelheim RCV
- 2020 **FFG Innovationscheck** with Goldenleaf GmbH
- 2020 **Industrial Follow-Up Project** “Inclusion body processing” in cooperation with Sciotec Diagnostic Technologies GmbH
- 2020 Project Partner in the **University Project** “BioNoWo” sponsored by the Center for Technology and Society
- 2020 **Industrial Follow-Up Project** „HRP from *E. coli* inclusion bodies” in cooperation with Hy2Care
- 2020 **FFG Innovationscheck** with DirectSens GmbH
- 2019-2020 **Industrial Project** “Novel strategies for feed” with Biomin GmbH
- 2019-2020 **Industrial Project** “Recombinant protein production with glyco-engineered yeasts – Upstream and Downstream Processing” with Vlaams Institute of Biotechnology VIB
- 2018-2020 **Industrial Project** “Statistical evaluation of bioprocess data” with Boehringer Ingelheim RCV
- 2017-2020 **Industrial Project** “Downstream Processing” with Medac GmbH
- 2017-2020 **Wiener Wirtschaftsagentur Project** “Integrative bioprocess development for biosimilar production using the enGenes-X-press technology” (ID 1898413) with enGenes GmbH
- 01.08.2023

- 2019 **Industrial Project** “USP with Lactose” with Boehringer Ingelheim RCV
- 2019 **Industrial Project** “Enzyme in *E. coli*” with Valanx GmbH
- 2019 **Industrial Project** “AM” with Thoeris GmbH
- 2018-2019 **Industrial Project** “**Inclusion Body Refolding**” with Boehringer Ingelheim RCV
- 2018 **FFG Innovationsscheck** with DirectSens GmbH
- 2017-2019 **Industrial Project** “Inclusion Body Refolding Unit” with Bilfinger
- 2016-2019 Co-Project Leader **FWF Stand Alone Scientific Project** “Chalcone 3hydroxylase” P29552-B29 funded by the Austrian Science Fund FWF
- 2016-2019 **Industrial Project** “High-value added product in *E. coli*” with Atabay Kimya Sanayi ve Ticaret
- 2016-2019 Project Partner in the **EU project ERA-IB-15-029** CrossCat “Symbiosis of bio- and chemo-catalysts for the sustainable conversion of hemicelluloses”
- 2014-2019 **Industrial Project** „Quantitative Prozessentwicklung, Produktivitäts-Optimierung sowie Charakterisierung der Produktionsplattform“ in cooperation with Sciotec Diagnostic Technologies GmbH
- 2015 **Industrial Project** „Novel bi-directional promotor systems for tuneable recombinant protein expression in *P. pastoris*“ in cooperation with bisy GmbH
- 2015 **Industrial Project** „HRP from *E. coli*“ in cooperation with Hy2Care
- 2013-2017 **Module Leader** of the **CD Laboratory Module** “Development of an all-in-one methodology for downstream processing and concomitant impurity monitoring”
- 2011-2015 Junior Faculty Member of the TU Wien **Doctorate Program** on “Catalysis Materials and Technology (CatMat)” (<http://catmat.tuwien.ac.at>)
- 2012-2015 **FWF Stand Alone Scientific Project** “Glycoengineered horseradish peroxidase for targeted cancer treatment” P24861-B19 funded by the Austrian Science Fund FWF (http://fwf.ac.at/asp/projekt_res.asp)
- 2011-2012 **Industrial Project** “Bulk- und Intermediate-Freezing von Proteinen” in cooperation with the Institut für Luft- und Kältetechnik ILK Dresden