

## Curriculum vitae

### Personal Details

Name: Assoc. Prof. Dipl.Ing. Dr.nat.techn. Oliver Spadiut  
 Date & place of birth: 07.05.1980 in Vienna, Austria  
 Tel: +43 (0)650 4274296  
 E-mail: oliver.spadiut@tuwien.ac.at  
 Website: <http://tinyurl.com/IBD-Vienna>  
 ORCID: 0000-0003-0916-0644



### Scientific Achievements at a glance

- **145 peer-reviewed scientific publications (71 corresponding authorships)**
- **h-index 27 (scopus on 08.11.2021)**
- **41 invited talks at international scientific conferences**
- **4 patents**
- **Associate Editor for *J. Biotechnol.***
- **peer-reviewing for 80 scientific Journals**
- **Member of the Faculty Board of TU Wien since 2015**
- **Member of the Study Commission “Technical Chemistry” since 2019**
- **total funding acquired = 5.6 Million Euros**

### Education

04/15            **Habilitation (*venia docendi*) 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

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 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

---

## Awards

- 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/ehrungen/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
- 

## 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 (since 2012)  
 2 courses at Johannes Kepler Universität Linz (since 2019)

## Teaching at TU Wien

Studieneingangsgespräch

09.11.2021

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 1.3 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)  
 Protein Engineering Lab (LU 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, Best Teacher Award 2019, Best Distance Learning Award 2020 and Best Teacher Award 2020**

### **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)

### **Teaching at FH Technikum Wien**

Biotechnology (VO 3.0 h)

### **Teaching at Johannes Kepler Universität Linz**

Biotechnology (VO 2.0 h)  
 Advanced Biotechnology (VO 2.0 h)

---

### **Peer-Reviewing for 80 Scientific Journals**

*Advanced Science, AMB Express, Analytical Biochemistry, Applied and Environmental Microbiology, Applied Biochemistry and Biotechnology, Applied Microbiology, Applied Microbiology and Biotechnology, American Society of Microbiology, BBA General Subjects, Biocatalysis and Agricultural Biotechnology, Biochemical Engineering Journal, Biochemistry, Bioengineered, Biologia, Biomass Conversion and Biorefinery, Bioresource Technology, Biotechnology Progress, Biotechnology Advances, Biotechnology and Bioengineering, Biotechnology Reports, BMC Biotechnology, Catalysis Letters, Chemical Engineering and Technology, Chemical Papers, Chemical Technology and Biotechnology, Clinical and Vaccine Immunology, Current Pharmaceutical Biotechnology, eBooks Bentham, Electronic Journal of Biotechnology, Engineering in Life Sciences, Enzyme and Microbial Technology, European Food Research and Technology, Extremophiles, FEBS, FEMS Microbiology Letters, FEMS Yeast Research, Food and Bioproducts Processing, Folia Microbiologica, Food Biotechnology, Frontiers in Microbiology, Fungal Biology and Biotechnology, Fungal Genetics and Biology, Gene, Gene Reports, Green Processing and Synthesis, International*

*Journal of Biological Macromolecules, International Journal of Food Engineering, International Journal of Peptide Research and Therapeutics, Journal of Agricultural and Food Chemistry, Journal of Bacteriology, Journal of Biotechnology, Journal of Biological Engineering, Journal of Cellular Biochemistry, Journal of Chemical Technology and Biotechnology, Journal of Environmental Management, Journal of Food Biochemistry, Journal of Microbiological Methods, Journal of Molecular Catalysis B: Enzymatic, Letters in Applied Microbiology, Journal of the Royal Society Interface, Letters in Applied Microbiology, Marine Drugs, Microbial Biotechnology, Microbial Cell Factories, Molecular Biotechnology, New Biotechnology, Physiologia Plantarum, Plasmids, PLOS One, Preparative Biochemistry and Biotechnology, Process Biochemistry, Processes, Protein and Peptide Letters, Protein Science, Scientific Reports, Sensors, Separation and Purification, Separation Science and Technology, Springer Plus, The Protein Journal*

---

## Projects (total funding acquired = 5.6 Million Euros)

### Projects at a glance

|                |   |
|----------------|---|
| FWF            | 4 projects (1.2 Mio €)                          |
| FFG            | 6 projects (975 k€)                             |
| WWA            | 1 project (270 k€)                              |
| EU             | 2 project (240 k€)                              |
| CD Laboratory  | Module Leader in Downstream Processing (320 k€) |
| Industrial R&D | 24 projects (2.6 Mio €)                         |

### List of projects

- since 2021    Project Leader of the **Industrial Project** “Continuous USP” with BASF
- since 2021    Project Leader of the **Industrial Project** “Inclusion Body generation” with Miltenyi Biotec
- since 2021    Project Leader of the **Industrial Project** “Pegasys” with pharma&GmbH
- since 2021    Project Leader of **Interreg Project** “PlastoCyan”
- since 2021    Project Leader of the **Industrial Project** “Membrane proteins in yeast” with Syngenta
- since 2020    Project Leader of the **FWF International Scientific Project** “CO<sub>2</sub> fixation in extreme conditions” I4508 funded by the Austrian Science Fund FWF ([http://fwf.ac.at/asp/projekt\\_res.asp](http://fwf.ac.at/asp/projekt_res.asp))
- since 2019    Project Leader of the **FFG Project** “EIS für Fabs – ein neuartiger elektrochemischer Biosensor zur Überwachung von Antikörperfragment-Produktionsprozessen” (FFG 874206) with Alfred Gruber GmbH
- since 2019    Faculty Member of the TU Wien **Doctorate Program** “Bioactive” (<https://bioactive.tuwien.ac.at/home/>)
- since 2017    Project Leader of the **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](http://fwf.ac.at/asp/projekt_res.asp))
- 2021            Project Leader of the **Industrial Project** “Optimization of an inclusion body process” with ZETA GmbH
- 2021            Project Leader of **Industrial Project** “Mutants” with Medac GmbH

- 2021 Project Leader of **Industrial Project** “Fermentation filamentous fungus” with bisy GmbH
- 2019-2021 Project Leader of the **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 Project Leader of **Industrial Project** “Inclusion Body Processing - Follow up” with Boehringer Ingelheim RCV
- 2020 **FFG Innovationscheck** with Goldenleaf GmbH
- 2020 Project Leader of the **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 Project Leader of **Industrial Follow-Up Project** „HRP from *E. coli* inclusion bodies” in cooperation with Hy2Care
- 2020 **FFG Innovationscheck** with DirectSens GmbH
- 2019-2020 Project Leader of **Industrial Project** “Novel strategies for feed” with Biomin GmbH
- 2019-2020 Project Leader of **Industrial Project** “Recombinant protein production with glyco-engineered yeasts – Upstream and Downstream Processing” with Vlaams Institute of Biotechnology VIB
- 2018-2020 Project Leader of **Industrial Project** “Statistical evaluation of bioprocess data” with Boehringer Ingelheim RCV
- 2017-2020 Project Leader of **Industrial Project** “Downstream Processing” with Medac GmbH
- 2017-2020 Project Leader of the **Wiener Wirtschaftsagentur Project** “Integrative bioprocess development for biosimilar production using the enGenes-X-press technology” (ID 1898413) with enGenes GmbH
- 2019 Project Leader of **Industrial Project** “USP with Lactose” with Boehringer Ingelheim RCV
- 2019 Project Leader of **Industrial Project** “Enzyme in *E. coli*” with Valanx GmbH
- 2019 Project Leader of **Industrial Project** “AM” with Thoreris GmbH
- 2018-2019 Project Leader of **Industrial Project** “**Inclusion Body Refolding**” with Boehringer Ingelheim RCV
- 2018 **FFG Innovationscheck** with DirectSens GmbH
- 2017-2019 Project Leader of **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 Project Leader of **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 Project Leader of **Industrial Project** „Quantitative Prozessentwicklung, Produktivitäts-Optimierung sowie Charakterisierung der Produktionsplattform“ in cooperation with Sciotec Diagnostic Technologies GmbH
- 2015 Project Leader of **Industrial Project** „Novel bi-directional promotor systems for tuneable recombinant protein expression in *Pichia pastoris*“ in cooperation with bisy GmbH
- 2015 Project Leader of **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 Project Leader of the **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](http://fwf.ac.at/asp/projekt_res.asp))
- 2011-2012 Project Leader of the **Industrial Project** “Bulk- und Intermediate-Freezing von Proteinen” in cooperation with the Institut für Luft- und Kältetechnik ILK Dresden