

Curriculum vitae

Personal Details

Name: Assoc. Prof. Dipl.Ing. Dr.nat.techn. Oliver Spadiut
 Date & place of birth: 07.05.1980 in Vienna, Austria
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Scientific Achievements at a glance

- **158 peer-reviewed scientific publications (78 corresponding authorships)**
- **h-index 30 (scopus on 10.01.2022)**
- **42 invited talks at international scientific conferences**
- **5 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 = 9.5 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

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 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

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/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 (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 1.3 h)
Bioprocess 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**
 Best Distance Learning Award 2020, 2021 and 2022
 Best Teacher Award 2019, 2020 and 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)

Teaching at FH Technikum Wien

Biotechnology (VO 3.0 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 = 9.5 Million Euros)

Projects at a glance

FWF	4 projects (1.2 Mio €)
FFG	9 projects (1.1 Mio k€)
WWA	1 project (270 k€)
EU	2 projects (240 k€)
CD Laboratory	Module Leader in Downstream Processing (320 k€)
	Laboratory Head (3.2 Mio €)
Industrial R&D	29 projects (3.1 Mio €)

List of projects

since 2022	Christian Doppler Laboratory "Inclusion Body Processing 4.0" with Boehringer Ingelheim RCV
since 2022	Project Partner in the FFG COMET Center "Hydrogen Research Centre Austria"
since 2022	FFG Innovationscheck with NovoArc GmbH
since 2022	FFG Innovationscheck with myBIOS GmbH
since 2022	Industrial Project "Early DSP" with Sciotec GmbH
since 2022	Industrial Project "hemoglobin" with Planeat Foods PTE LTD
since 2022	Industrial Project "HRP from <i>E. coli</i> " with Thermo Scientific GmbH
since 2022	Industrial Project "Interferon $\alpha 1,8$ " with pharma& GmbH
since 2022	Industrial Project "green H ₂ production" with VERBUND
since 2021	Industrial Project "Continuous USP" with BASF
since 2021	Industrial Project "Inclusion Body generation" with Miltenyi Biotec
10.01.2023	

- since 2021 **Industrial Project** “Pegasys” with Loba GmbH
- since 2021 **Interreg Project** “PlastoCyan” ATCZ260
- since 2021 **Industrial Project** “Membrane proteins in yeast” with Syngenta
- since 2020 **FWF International Scientific Project** “CO₂ fixation in extreme conditions” I4508 funded by the Austrian Science Fund FWF (http://fwf.ac.at/asp/projekt_res.asp)
- 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
- 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

List of publications

Scientific Peer-Reviewed Papers

1. **Spadiut O.**, Leitner C., Tan TC., Ludwig R., Divne C. and Haltrich D. "Mutations of Thr169 affect substrate specificity of pyranose 2-oxidase from *Trametes multicolor*" *Biocatal. Biotrans.* 2007, 26: 120-127. doi:10.1080/10242420701789320
2. Abolmaali S., Mitterbauer R., **Spadiut O.**, Peruci M., Weindorfer H., Lucyshyn D., Ellersdorfer G., Lemmens M., Moll WD. and Adam G. "Engineered baker's yeast as a sensitive bioassay indicator organism for the trichothecene toxin deoxynivalenol" *J. Microbiol. Methods* 2008, 72: 306-312. doi: 10.1016/j.mimet.2007.12.013
3. **Spadiut O.**, Pisanelli I., Maischberger T., Salaheddin C., Peterbauer C., Gorton L. and Haltrich D. "Engineering of pyranose 2-oxidase: improvement for biofuel cell and food applications through semi-rational protein design" *J. Biotechnol.* 2009, 5: 250-257. doi: 10.1016/j.jbiotec.2008.11.004
4. **Spadiut O.**, Leitner C., Salaheddin C., Varga B., Vertessy B., Tan TC., Divne C. and Haltrich D. "Improving thermostability and catalytic activity of pyranose 2-oxidase from *Trametes multicolor* by rational and semi-rational design" *FEBS J.* 2009, 276: 776-792. doi: 10.1111/j.1742-4658.2008.06823.x
5. **Spadiut O.**, Radakovits K., Pisanelli I., Salaheddin C., Yamabhai M., Tan TC., Divne C. and Haltrich D. "A thermostable triple mutant of pyranose 2-oxidase from *Trametes multicolor* with improved properties for biotechnological applications" *Biotechnol. J.* 2009, 4: 525-534. doi: 10.1002/biot.200800260
6. Salaheddin C., **Spadiut O.**, Ludwig R., Tan TC., Divne C., Haltrich D. and Peterbauer C. "Probing active-site residues of pyranose 2-oxidase from *Trametes multicolor* by semi-rational protein design" *Biotechnol. J.* 2009, 4: 535-543. doi: 10.1002/biot.200800265
7. Pisanelli I., Kujawa M., **Spadiut O.**, Kittl R., Halada P., Volc J., Mozuch MD., Kersten P., Haltrich D. and Peterbauer C. "Pyranose 2-oxidase from *Phanerochaete chrysosporium* – expression in *E. coli* and biochemical characterization" *J. Biotechnol.* 2009, 142: 97-106. doi: 10.1016/j.jbiotec.2009.03.019
8. Pisanelli I., Kujawa M., Gschnitzer D., **Spadiut O.**, Seiboth B. and Peterbauer CK. "Heterologous expression of an *Agaricus meleagris* pyranose dehydrogenase-encoding gene in *Aspergillus spp.* and characterization of the recombinant enzyme" *Appl. Microbiol. Biotechnol.* 2010, 86: 599-606. doi: 10.1007/s00253-009-2308-x
9. **Spadiut O.**, Brugger D., Coman V., Haltrich D. and Gorton L. "Engineered pyranose 2-oxidase: efficiently turning sugars into electrical energy" *Electroanalysis* 2010, 7-8: 813-820. doi: 10.1002/elan.200980015
10. Pitsawong W., Sucharitakul J., Prongjit M., Tan TC., **Spadiut O.**, Haltrich D., Divne C. and Chaiyen P. "A conserved active-site threonine is important for both sugar and flavin oxidations of pyranose 2-oxidase" *J. Biol. Chem.* 2010, 285: 9697-9705. doi: 10.1074/jbc.M109.073247

11. **Spadiut O.**, Posch G., Ludwig R., Haltrich D. and Peterbauer CK. "Evaluation of different expression systems for the heterologous expression of pyranose 2-oxidase from *Trametes multicolor* in *E. coli*" *Microb. Cell Fact.* 2010, 9: 14. doi: 10.1186/1475-2859-9-14
12. **Spadiut O.**, Nguyen T. and Haltrich D. "Thermostable variants of pyranose 2-oxidase showing altered substrate selectivity for glucose and galactose" *J. Agric. Food Chem.* 2010, 58: 3465-3471. doi: 10.1021/jf9040047
13. **Spadiut O.**, Tan TC., Pisanelli I., Haltrich D. and Divne C. "Importance of the gating segment in the substrate-recognition loop of pyranose 2-oxidase" *FEBS J.* 2010, 277: 2892-2909. doi: 10.1111/j.1742-4658.2010.07705.x
14. Salaheddin C., Takakura Y., Tsunashima M., Stranzinger B., **Spadiut O.**, Yamabhai M., Peterbauer CK. and Haltrich D. "Characterisation of recombinant pyranose oxidase from the cultivated mycorrhizal basidiomycete *Lyophyllum shimeji* (*hon-shimeji*)" *Microb. Cell Fact.* 2010, 9: 57. doi: 10.1186/1475-2859-9-57
15. Tan TC., Pitsawong W., Wongnate T., **Spadiut O.**, Haltrich D., Chaiyen P. and Divne C. "H-bonding and positive charge at the N5/O4 locus are critical for covalent flavin attachment in trametes pyranose 2-oxidase" *J. Mol. Biol.* 2010, 402: 578-594. doi: 10.1016/j.jmb.2010.08.011
16. **Spadiut O.**, Olsson L. and Brumer H. "A comparative summary of expression systems for the recombinant production of galactose oxidase" *Microb. Cell Fact.* 2010, 9: 68. doi: 10.1186/1475-2859-9-68
17. Dietzsch C., **Spadiut O.** and Herwig C. "A dynamic method based on the specific substrate uptake rate to set up a feeding strategy for *Pichia pastoris*" *Microb. Cell Fact.* 2011, 10: 14. doi: 10.1186/1475-2859-10-14
18. **Spadiut O.**, Ibatullin FM., Peart J., Gullfot F., Martinez-Fleites C., Ruda M., Xu C., Sundqvist G., Davies GJ. and Brumer H. "Building custom polysaccharides *in vitro* with a new glycosynthase and a glycosyltransferase" *J. Am. Chem. Soc.* 2011, 133: 10892-10900. doi: 10.1021/ja202788q
19. **Spadiut O.**, Ariza A., Eklöf J., Offen W.A., Roberts S.M., Besenmatter W., Friis E.P., Skjot M., Wilson K.S., Brumer H. and Davies GJ. "Structure and activity of a *Paenibacillus polymyxa* xyloglucanase from glycoside hydrolase family 44" *J. Biol. Chem.* 2011, 286: 33890-33900. doi: 10.1074/jbc.M111.262345
20. Dietzsch C., **Spadiut O.** and Herwig C. "A fast approach to determine a fed batch feeding profile for recombinant *Pichia pastoris* strains" *Microb. Cell Fact.* 2011, 10: 85. doi: 10.1186/1475-2859-10-85
21. Pisanelli I., Wuehrer P., Reyes-Dominguez Y., **Spadiut O.**, Haltrich D. and Peterbauer C. "Heterologous expression and biochemical characterization of novel pyranose 2-oxidases from the ascomycetes *Aspergillus nidulans* and *Aspergillus oryzae*" *Appl. Microbiol. Biotechnol.* 2012, 93: 1157-1166. doi: 10.1007/s00253-011-3568-9
22. Bi R., **Spadiut O.**, Lawoko M., Brumer H. and Henriksson G. "Isolation and identification of microorganisms from soil able to live on lignin as carbon source and produce enzymes which cleave β -O-4 bond in a lignin model compound" *Cellulose Chem. Technol.* 2012, 46: 227-242.
23. Krainer FW., Dietzsch C., Hajek T., Herwig C., **Spadiut O.*** and Glieder A. "Recombinant protein expression in *Pichia pastoris* strains with an engineered methanol utilization pathway" *Microb. Cell Fact.* 2012, 11: 22. doi: 10.1186/1475-2859-11-22

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24. **Spadiut O.**, Dietzsch C., Posch AE and Herwig C. "Evaluation and application strategy for online sampling probes" *Eng. Life Sci.* 2012, 5: 507-513. doi: 10.1002/elsc.201100228
25. Zalai D., Dietzsch C., Herwig C. and **Spadiut O.*** "A dynamic fed batch strategy for a *Pichia pastoris* mixed feed system to increase process understanding" *Biotechnol. Prog.* 2012, 28: 878-886. doi: 10.1002/btpr.1551
*corresponding author
26. Xu C., **Spadiut O.**, Araújo AC., Nakhai A. and Brumer, H. "Chemo-enzymatic assembly of clickable cellulose surfaces via multivalent polysaccharides" *ChemSusChem* 2012, 4: 661-665. doi: 10.1002/cssc.201100522
27. Posch AE, **Spadiut O.** and Herwig C. "A novel method for fast and statistically verified morphological characterization of filamentous fungi" *Fungal Genet. Biol.* 2012, 49: 499-510. doi: 10.1016/j.fgb.2012.05.003
28. Dietzsch C., **Spadiut O.** and Herwig C. "On-line multiple component analysis for efficient quantitative bioprocess development" *J. Biotechnol.* 2013, 163: 362-370. doi: 10.1016/j.jbiotec.2012.03.010
29. Posch AE, **Spadiut O.** and Herwig C. "Switching industrial production processes from complex to defined media: Method development and case study using the example of *Penicillium chrysogenum*" *Microb. Cell Fact.* 2012, 11: 88. doi: 10.1186/1475-2859-11-88
30. Guerriero G., **Spadiut O.**, Kerschbamer C., Giorno F., Baric S. and Ezcurra I. "Analysis of cellulose synthase genes from domesticated apple identifies collinear genes *WDR53* and *CesA8A*: partial coexpression, bicistronic mRNA and alternative splicing of *CESA8A*" *J. Exp. Bot.* 2012, 63: 6045-6056. doi: 10.1093/jxb/ers255
31. **Spadiut O.**, Rittmann S., Dietzsch C. and Herwig C. "Dynamic conditions in bioprocess development" *Eng. Life Sci.* 2013, 1: 88-101. doi.org/10.1002/elsc.201200026
32. **Spadiut O.***, Rossetti L., Dietzsch C. and Herwig C. "Purification of a recombinant plant peroxidase produced in *Pichia pastoris* by a simple 2-step strategy" *Protein Expr. Purif.* 2012, 86: 89-97. doi: 10.1016/j.pep.2012.09.008
*corresponding author
33. Seidl-Seiboth V., Zach S., Frischmann A., **Spadiut O.**, Dietzsch C., Herwig C., Ruth C., Rodler A., Jungbauer A. and Kubicek C. "Spore germination of *Trichoderma atroviride* is inhibited by its LysM protein TAL6" *FEBS J.* 2013, 280: 1226-1236. doi: 10.1111/febs.12113
34. Frischmann A., Neudl S., Gaderer R., Bonazza K., Zach S., Gruber S., **Spadiut O.**, Friedbacher G., Grothe H. and Seidl-Seiboth V. "Self-assembly at air/water interfaces and carbohydrate-binding properties of the small secreted protein EPL1 from the fungus *Trichoderma atroviride*" *J. Biol. Chem.* 2013, 288: 4278-4287. doi: 10.1074/jbc.M112.427633
35. **Spadiut O.**, Tan TC., Wongnate T., Sucharitakul J., Krondorfer I., Sygmund C., Haltrich D., Chaiyen P., Peterbauer C. and Divne C. "The 1.6 Å crystal structure of pyranose dehydrogenase from *Agaricus meleagris* rationalizes substrate specificity and reveals a flavin intermediate" *PlosOne* 2013, 8: e53567. doi: 10.1371/journal.pone.0053567
36. Posch A.E., Herwig C. and **Spadiut O.*** "Science-based bioprocess design for filamentous fungi" *Trends Biotechnol.* 2013, 31: 37-44. doi: 10.1016/j.tibtech.2012.10.008
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37. **Spadiut O.*** and Herwig C. "Production and purification of the multifunctional enzyme horseradish peroxidase: a review" *Pharm. Bioprocess.* 2013, 1: 283-295. doi:10.4155/pbp.13.23
*corresponding author
38. Krainer FW., Gmeiner C., Neutsch L., Windwarder M., Pletzenauer R., Herwig C., Altmann F., Glieder A. and **Spadiut O.*** „Knockout of an endogenous mannosyltransferase increases the homogeneity of glycoproteins produced in *Pichia pastoris*" *Sci. Rep.* 2013, 3: 3279. doi: 10.1038/srep03279
*corresponding author
39. Hassan N., Tan T.C., **Spadiut O.**, Pisanelli I., Fusco L., Haltrich D., Peterbauer C. and Divne C. "Crystal structures of *Phanerochaete chrysosporium* pyranose 2-oxidase suggest that the N-terminus acts as a propeptide that assists in homotetramer assembly" *FEBS Open Bio*, 2013, 3: 496-504. doi: 10.1016/j.fob.2013.10.010
40. **Spadiut O.**, Capone S., Krainer F., Glieder A. and Herwig C. "Microbials for the production of monoclonal antibodies and antibody fragments" *Trends Biotechnol.*, 2014, 32: 54-60. doi: 10.1016/j.tibtech.2013.10.002
41. Sagmeister P., Schimek C., Meitz A., Herwig C. and **Spadiut O.*** „Tunable recombinant protein production with *E. coli* in a mixed feed environment" *Appl. Microbiol. Biotechnol.*, 2014, 98: 2937-2945. doi: 10.1007/s00253-013-5445-1
*corresponding author
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- 148.** Akhgar C.K., Ebner J., **Spadiut O.**, Schwaighofer A. and Lendl B. "QCL-IR Spectroscopy for In-Line Monitoring of Proteins from Preparative Ion-Exchange Chromatography" *Anal. Chem.*, 2022, 94:5583-5590. doi: 10.1021/acs.analchem.1c05191
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- 151.** Pekarsky A. and **Spadiut O.*** "Dynamic Feeding for *Pichia pastoris*" *Methods Mol. Biol.*, 2022, 2513:243-254. doi: 10.1007/978-1-0716-2399-2_14
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- 152.** Škulj S., Barišić A., Mutter N., **Spadiut O.**, Barišić I. and Bertoša B. "Effect of N-glycosylation on horseradish peroxidase structural and dynamical properties" *Comput. Struct. Biotechnol.*, 2022, 20:3096-3105. doi: 10.1016/j.csbj.2022.06.008

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155. Knežević K., Rastädter K., Quehenberger J., **Spadiut O.**, Krampe J. and Kreuzinger N. "Circular production – Evaluation of membrane technologies for nutrient recycling from a microbial fermentation effluent ", *J. Cleaner Production*, 2022, doi: 10.1016/j.jclepro.2022.134436

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157. Rastädter K., Tramontano A., Wurm D.J., Spadiut O. and Quehenberger J. "Flow cytometry-based viability staining: an at-line tool for bioprocess monitoring of *Sulfolobus acidocaldarius* ", *J. AMB Express*, 2022, 12:107. doi: 10.1186/s13568-022-01447-1

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Patents

1. Reinsch H., Heidingsfelder J., **Spadiut O.** and Herwig C. „Verfahren zur Ermittlung von Gefrierschäden von wässrigen Produktlösungen beim Einfrierprozess“; Patent No. 2013090414255500 DE

2. Quehenberger J., Wurm D. and **Spadiut O.** „Method for producing a composition comprising archaeal lipids from a *Sulfolobus* cell culture“; Patent No. WO2020/187526 A1

3. Humer D. and **Spadiut O.** "HRP Mutant"; Patent No. EP 20167727.5

4. Humer D., Ebner J. and **Spadiut O.** "HRP Inclusion Body Process"; Patent No. EP 20167716.8

5. Sedlmayr V., Quehenberger J., **Spadiut O.** and Wurm D. "Lipid nanoparticle with nucleic acid cargo"; Patent No. EP22196901.7

Invited Talks

1. Spadiut O. (2008) "Genetic engineering of the carbohydrate oxidase pyranose 2-oxidase from *Trametes multicolor*", 12th Austrian Carbohydrate Workshop, Feb 21, 2008, University of Natural Resources and Applied Life Sciences BOKU, Vienna, Austria

2. Spadiut O. (2009) "Pyranose 2-oxidase: playground for enzyme evolution", 1st annual meeting of the Austrian Association of Molecular Life Sciences and Biotechnology ÖGMBT, Sept 21, 2009, Innsbruck, Austria
3. Spadiut O. (2011) "Building custom polysaccharides *in vitro* with a new glycosynthase and a glycosyltransferase", Gordon Research Conference GRC on Cellulosomes, Cellulases & Other Carbohydrate Modifying Enzymes, July 24-29, 2011, Stonehill College, Easton, MA, USA
4. Spadiut O. (2011) "A comparative summary of expression systems for the heterologous expression of galactose oxidase", PEGS Europe - Protein & Antibody Engineering Summit, Oct 11-13, 2011, Hannover, Germany
5. Spadiut O. (2012) "Playing with the methanol utilization pathway in *Pichia pastoris*", Pichia 2012, Feb 29 - March 03, 2012, Alpbach, Austria
6. Spadiut O. (2012) "Efficient purification of a recombinant plant peroxidase by a mixed-mode resin", ISPPP 2012, Sept 26-29, 2012, Istanbul, Turkey
7. Spadiut O. (2013) "Stability studies with the multifunctional enzyme horseradish peroxidase", IIR Cryoworkshop 2013, Sept 04-05, 2013, Dresden, Germany
8. Spadiut O. (2014) "Knockout of an endogenous mannosyltransferase increases the homogeneity of glycoproteins produced in *Pichia pastoris*", Pichia 2014, March 02-05, 2014, San Diego, USA
9. Spadiut O. (2014) "Purification and biochemical characterization of 19 recombinant plant peroxidase isoenzymes produced in *Pichia pastoris*", Monolith Summer School 2014, May 30-June 4, 2014, Portoroz, Slovenia
10. Spadiut O. (2014) "Efficient DSP for hyperglycosylated proteins from yeast", Bioproduction, Oct 08-09, 2014, Barcelona, Spain
11. Spadiut O. (2015) "Horseradish Peroxidase – from Genome to Protein", 12th International Life Science Meeting, April 15-17, 2015, Krems, Austria
12. Spadiut O. (2015) "Development of a novel feeding strategy for an industrial yeast strain", 5th Annual Bioproduction: Scale, Bioreactors and Disposables, Aug 5-6, 2015, Boston, USA
13. Spadiut O. (2015) "Monoliths as PAT tools for bioprocess improvement", CHI's 7th Annual PEGS Europe, Nov 5-6, Lisbon, 2015, Portugal
14. Spadiut O. (2016) "Horseradish Peroxidase – from genome to protein", XI Meeting of young Chemical Engineers, Feb 18-19, 2016, Zagreb, Croatia
15. Spadiut O. (2016) "Development of a fed-batch process for a recombinant *Pichia pastoris* Δ och1 strain expressing a plant peroxidase", Pichia 2016, April 3-6, 2016, Antalya, Turkey
16. Spadiut O. (2016) "A novel PAT toolbox to facilitate monitoring of *E. coli* bioprocesses", Monolith Summer School 2016, May 27-June 1, 2016, Portoroz, Slovenia
17. Spadiut O. (2016) "Identification of interaction effects between unit operations", Workshop on Methods for Accelerating Scalable Bioprocess Development, Nov 09-11, 2016, Vienna, Austria

- 18.** Spadiut O. (2016) "Continuous Bioprocessing - status quo and challenges", European Antibody Congress, Nov 14-16, 2016, Basel, Switzerland
- 19.** Spadiut O. (2016) "A novel tandem Fab against coeliac disease", European Antibody Congress, Nov 14-16, 2016, Basel, Switzerland
- 20.** Spadiut O. (2017) "Freezing effects on monoclonal antibodies in ZETA's scale down systems", ZETA Symposium 2017, January 25-26, 2017, Lieboch, Austria
- 21.** Spadiut O. (2017) "Can a novel monitoring tool based on chromatogram fingerprinting help in enabling continuous bioprocessing?", 10th annual BioInnovation Leaders Summit GBX Summits, February 7-9, 2017, Berlin, Germany
- 22.** Spadiut O. (2017) "A novel toolbox for monitoring inclusion body processing", Cell Culture and Downstream World Congress 2017, February 21-23, 2017, Munich, Germany
- 23.** Spadiut O. (2017) "How to tune recombinant protein production in *E. coli* for enhanced production of biopharmaceuticals", Biotechnology and Biotech Industries Meet, March 20-22, 2017, Rome, Italy
- 24.** Spadiut O. (2017) "How Induction Impacts Inclusion Body Properties and Inclusion Body Processing in *E. coli*", 14th International Life Science Meeting, April 5-7, 2017, Krems, Austria
- 25.** Spadiut O. (2017) „Glycoengineering of Biopharmaceuticals by using Glycoengineered Yeasts“, CBM12, April 22-26, 2017, Vienna, Austria
- 26.** Spadiut O. (2017) „How Induction Impacts Inclusion Body Properties and Inclusion Body Processing in *E. coli*“, PEGS – Protein Expression Strategies, May 2-5, 2017, Boston, USA
- 27.** Spadiut O. (2017) "A novel monitoring tool based on chromatogram fingerprinting as potential enabler of continuous bioprocessing", Biotech 2017, September 7-8, 2017, Wädenswil, Switzerland
- 28.** Spadiut O. (2017) "The production of a novel scFv against coeliac disease – from gene to final product", European Antibody Congress, Oct 31-Nov 2, 2017, Basel, Switzerland
- 29.** Spadiut O. (2018) "Continuous Bioprocessing – how can it be done?", ZETA Symposium 2018, March 6-8, 2018, Seggau, Austria
- 30.** Spadiut O. (2018) "A novel Fab against celiac disease – from IB to product formulation", Bioprocessing Summit, March 20-23, 2018, Lisbon, Portugal
- 31.** Spadiut O. (2018) "Inclusion Bodies – more than just waste!", 22nd edition of International Conference on Biotechnology, April 16-17, 2018, Amsterdam, Netherlands
- 32.** Spadiut O. (2018) "Chromatogram fingerprinting to follow integrated bioprocesses", World Advanced Therapies and Regenerative Medicine, May 16-18, 2018, London; UK
- 33.** Spadiut O. (2018) „Production of Fabs in *E. coli* – a comparison of expression systems“, BioProduction 2018, October 9-10, 2018, Dublin, Ireland
- 34.** Spadiut O. (2019) „The time has come – more control in IB processing“, Bioprocessing Summit, March 19-21, 2018, Lisbon, Portugal

- 35.** Spadiut O. (2019) „The time has come to bring QbD to inclusion body processing“, Bioprocess International Europe, April 2-5, 2019, Vienna, Austria
- 36.** Spadiut O. (2019) „A tricky endeavour : production of membrane-bound P450s“, PEGS Europe 2019, Protein Purification Technologies, November 21-22, 2019, Lisbon, Portugal
- 37.** Spadiut O. (2020) „Inclusion Body Processing: A REAL Black Box Case Study“, PEGS Europe Virtual Event 2020, Protein Purification Technologies, November 9-12, 2020, virtual
- 38.** Spadiut O. (2021) „Extracellular protein production with *E. coli* – how can it be done and what does it really bring for the DSP?“, BioProcessing Summit Europe Virtual, March 16-17, 2021, virtual
- 39.** Spadiut O. (2021) „NovoArc – Health without needles“, Biovaria, April 26-28, 2021, virtual
- 40.** Spadiut O. (2021) „Scalable and efficient recombinant production of the versatile plant enzyme horseradish peroxidase“, BioTalk, September 21-22, 2021, virtual
- 41.** Spadiut O. (2021) „Extracellular protein production with *E. coli* – how can it be done and what does it really bring for the DSP?“, PEGS Europe Protein and Antibody Engineering Summit, November 2-4, 2021, Barcelona, Spain
- 42.** Spadiut O. (2022) „A Peroxidase from Inclusion Bodies as Tool in Cancer Treatment“, Bioprocessing Summit Europe, March 22-24, 2022, Barcelona, Spain