Dr. Wolfgang Esser-Skala

Curriculum vitae

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Personal details

26 September 1984 in Schärding (Upper Austria)

Nationality Austria

Family status married, four children

Experience

since 2017-06 Postdoc, Christian Doppler Laboratory for Innovative Tools for Biosimilar Characterization at the University of Salzburg, Faculty of Natural Sciences, Department of Biosciences, Hellbrunner Straße 34, 5020 Salzburg.

- Setup and implementation of algorithms and workflows for biosimilar analysis (see publications for recent research projects)
- High-throughput data analysis consultation and training for scientists and research assistants
- Teaching (big data and research data management, data visualization)
- Implementation of IPMA-compliant project management structures to organize scientific conferences, which were applied to organize the Austrian Proteomics and Metabolomics Research Symposium 2019
- Webmaster for the pages of, i. a., the CD Lab (http://cdl-biosimilars.sbg.ac.at/), the Doctoral College Immunity in Cancer & Allergy (http://ica.sbg.ac.at/), and the Allergy Cancer BioNano Research Centre (http://acbn.sbg.ac.at/)

2014-09 to 2017-05 Assistant to the CEO, Pointner & Rothschädl Ges.m.b.H., Münchner Bundesstraße 121, 5020 Salzburg.

- Managerial accounting and business reporting
- Support and customization of the company's ERP software
- Financial accounting for eleven group companies based in seven European countries
- Preparation of separated and consolidated financial statements

2010-10 to 2014-06 PhD student, Structural Biology Group at the University of Salzburg, Faculty of Natural Sciences, Department of Molecular Biology, Billrothstraße 11, 5020 Salzburg.

- Biochemical and structural characterization of kallikrein-related peptidase 2
- Tutor for laboratory and mathematics courses

since 2003-10 Emergency medical technician, Austrian Red Cross, National Association Upper Austria, District Office Schärding, Othmar-Spanlang-Straße 2, 4780 Schärding.

- Emergency medical technician with permission to drive ambulance vehicles
- Practical instructor
- Leadership training levels 1 and 2
- Critical incident stress management peer
- Community service from 2003-10 to 2004-09, volunteer since 2004-10

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Education

2018-04 to 2019-06 Academic Project Manager

(SMBS - University of Salzburg Business School,

in cooperation with next level consulting)

passed with distinction

2011-03 to 2015-02 Bachelor's degree program of Business Administration and Economics

(FernUniversität in Hagen)

passed with final grade Sehr gut (1,1)

Doctoral study of Natural Sciences 2010-09 to 2014-09

(University of Salzburg, Department of Molecular Biology)

Promotio sub auspiciis Praesidentis rei publicae

2013-09 to 2014-04 Financial accountant (Wifi Salzburg)

passed with distinction

2008-10 to 2010-08 Joint Master's degree program of Molecular Biology

(University of Salzburg, University of Linz)

passed with distinction

Joint Bachelor's degree program of Molecular Biosciences 2005-10 to 2008-09

(University of Salzburg, University of Linz)

passed with distinction

One semester of Organ Performance (Anton Bruckner University Linz) 2004-I0 to 2005-09

and of Musicology and Dance Studies (University of Salzburg)

2003-10 to 2003-11 Emergency medical technician (§ 9 SanG)

passed with distinction

1995-09 to 2003-06 Secondary school Schärding

school leaving examination passed with distinction

Skills

Language - German (native)

English (fluent)

Computer - Expert knowledge of R, Python, LATEX and LilyPond

Practical knowledge of Java, HTML/CSS

Sound knowledge of MS Office including VBA programming

Project management IPMA Level D Certified Project Management Associate

Teaching HSD⁺ (Course in academic instruction)

Music - Continuo player (organ, harpsichord) of the Cantorey der Kirche der Barmherzigen *Brüder Schärding* since 2004-03

- Expert in realization of figured bass notation according to 18th century practice

Editor of practical editions of 18th/19th century sacral music

Driver's license B

Bibliography

1 Peer-reviewed publications

Esser-Skala W, Segl M, Wohlschlager T, Reisinger V, Holzmann J & Huber CG (2020). Exploring data evaluation strategies for enhanced identification of host cell proteins in drug products of therapeutic antibodies and Fc-fusion proteins. *submitted*.

Esser-Skala W, Regl C, Wohlschlager T & Huber CG (2020).

A simple strategy to eliminate glycation bias in the relative quantification of protein N-glycosylation.

submitted.

Regl C, Wohlschlager T, Esser-Skala W, Wagner I, Samonig M, Holzmann J & Huber CG (2019).

Dilute-and-shoot analysis of therapeutic monoclonal antibody variants in fermentation broth: a method capability study.

mAbs 11(3), 569-582.

Debela M, Magdolen V, Skala W, Elsässer B, Schneider EL, Craik CS, Biniossek ML, Schilling O, Bode W, Brandstetter H & Goettig P (2018).

Structural determinants of specificity and regulation of activity in the allosteric loop network of human KLK8/neuropsin.

Sci. Rep. 8(1), 10705.

Wohlschlager T, Scheffler K, Forstenlehner IC, Skala W, Senn S, Damoc E, Holzmann J & Huber CG (2018).

Native mass spectrometry combined with enzymatic dissection unravels glycoform heterogeneity of biopharmaceuticals.

Nat. Commun. 9(1), 1713.

Skala W, Wohlschlager T, Senn S, Huber GE & Huber CG (2018).

MoFi – A software tool for annotating glycoprotein mass spectra by integrating hybrid data from the intact protein and glycopeptide level.

Anal. Chem. 90(9), 5728-5736.

Guo S, Skala W, Magdolen V, Briza P, Biniossek ML, Schilling O, Kellermann J, Brandstetter H & Goettig P (2016).

A single glycan at the 99-loop of human kallikrein-related peptidase 2 regulates activation and enzymatic activity.

J. Biol. Chem. 291(2), 593-604.

Skala W, Utzschneider DT, Magdolen V, Debela M, Guo S, Craik CS, Brandstetter H & Goettig P (2014).

Structure-function analyses of human kallikrein-related peptidase 2 establish the 99-loop as master regulator of activity.

J. Biol. Chem. 289(49), 34267-34283.

Guo S, Skala W, Magdolen V, Brandstetter H & Goettig P (2014).

Sweetened kallikrein-related peptidases (KLKs): Glycan trees as potential regulators of activation and activity.

Biol. Chem. 395(9), 959-976.

Skala W, Goettig P & Brandstetter H (2013).

Do-it-yourself histidine-tagged bovine enterokinase: A handy member of the protein engineer's toolbox.

J. Biotechnol. 168(4), 421-425.

2 Theses

Organisation des Austrian Proteomics and Metabolomics Research Symposium 2019. *Final thesis* (supervisor: Sabine Reithofer-Reinhardt), SMBS, 2019.

Die Lösung des restringierten Steinerbaum-Problems mittels lokaler Suchverfahren. *Bachelor thesis* (supervisor: Friedhelm Kulmann), FernUniversität in Hagen, 2015.

Biochemical and structural characterization of human kallikrein-related peptidase 2 activated by do-it-yourself histidine-tagged bovine enterokinase.

PhD thesis (supervisors: Hans Brandstetter and Peter Goettig), University of Salzburg, 2014.

Die Bahnsteigzuordnung als Teilproblem des Railway Scheduling. Seminar "Metaheuristiken zur Lösung kombinatorischer Optimierungsprobleme mit Anwendungen zur Transport- und Verkehrsoptimierung".

Term paper (supervisor: Friedhelm Kulmann), FernUniversität in Hagen, 2014.

Putative macaque and orangutan homologues of tripeptidyl-peptidase II underline the importance of its *C*-terminal part for enzymatic activity and proper oligomerization. *Master thesis* (supervisor: Hans Brandstetter), University of Salzburg, 2010.

Crystallization: From art to science.

Bachelor thesis (supervisor: Hans Brandstetter), University of Salzburg, 2008.

Determining the current-voltage characteristic: An electrophysiological study on Aquaporin-6.

Bachelor thesis (supervisor: Peter Pohl), Johannes Kepler University Linz, 2007.

3 Miscellaneous

The pgfgantt package vs.o.

LATEX package, 2018 (CTAN: http://www.ctan.org/pkg/pgfgantt).

more than fifty *practical editions of 18th/19th century sacral music*, most of them licensed under the CC BY-NC-SA 4.0 International License, available *via* the International Music Score Library Project (http://imslp.org/wiki/Category:Skala,_Wolfgang).