

"I have always been fascinated about how innovation changes society. I could not imagine anything more exciting than bringing my own technology into Pharma industry, and finally see the benefit for patients' health."



Oct. 2, 1983

Altötting (DE)

Married,
two children

German

+41 56 310 57 54

ostermaier@interaxbiotech.com

Date of birth

Place of birth

Civil status

Nationality

Phone

E-mail

EXPERIENCE

InterAx Biotech AG, Switzerland

Since Apr. 2016

Chairman of the Board, CEO & Co-Founder: InterAx core expertise resides in engineering complexes of membrane protein and soluble protein. This allows InterAx to create protein biosensors specifically binding a chosen state of a membrane protein and to develop drug screening assays providing precise functional information or addressing currently undruggable targets.

Paul Scherrer Institute, Switzerland

Since July 2016

Scientific Officer: Leading a project on deciphering and engineering the interaction of β -arrestin2 with the β_2 -adrenergic receptor by scanning mutagenesis and cell-based screening

ETH innovation & entrepreneurship Lab, Switzerland

Aug. 2014 – Jan. 2016

Postdoctoral ETH Pioneer Fellow: Raised >1M CHF, set up highly-skilled team, built advisory & customer network, managed R&D of drug screening products targeting eye disease retinitis pigmentosa

Paul Scherrer Institute / ETH Zürich, Switzerland

Apr. 2010 – Apr. 2014

Research & teaching assistant: Invented high-throughput binding assay for GPCR–effector complex stabilization

CNRS / Université Paul Sabatier, France

May 2009 – Feb. 2010

Research assistant in bilateral project: Established single molecule analysis on transcription machinery

University of Colorado at Boulder, USA

Sep. 2007 – May 2008

Undergraduate research assistant

EDUCATION

Dr. sc. ETH Zürich

Aug. 2014

Cumulative dissertation: “Stabilization of the arrestin–rhodopsin GPCR signaling complex

Dipl.-Biochem., University of Regensburg

Mar. 2010

Diploma thesis: “Ultra-structural analyses of nucleolar complexes”, minor: Bioinformatics, grade: Very good

PUBLICATIONS

Haider, ..., & Ostermaier : Engineered arrestin-1 mutants stabilize their complexes with native rhodopsin	Submitted
Haider, Rizk, Schertler & Ostermaier: Comprehensive analysis of the role of arrestin residues in receptor binding, Springer	May 2017
Peterhans, Lally, Ostermaier et al.: [...] arrestin binding to phosphorylated opsin, with and without agonist, Scientific Reports	June 2016
Ostermaier et al.: Molecular mechanism of phosphorylation-dependent arrestin activation, Invited review, COSB	Dec. 2014
Ostermaier et al.: Functional map of arrestin-1 at single amino acid resolution, PNAS	Feb. 2014
Ostermaier et al.: [...] A suite of programs for [...] high-throughput scanning mutagenesis, PLOS ONE	Oct. 2013
Vishnivetskiy, Ostermaier et al.: Constitutively active rhodopsin mutants causing night blindness [...], Cellular Signalling	July 2013
Ostermaier , Schertler & Standfuss: Mutateable ligand-GPCR binding at single amino acid resolution, European patent application EP13171505.4	June 2013
Singhal, Ostermaier et al.: Insights into congenital stationary night blindness based on the structure of G90D rhodopsin, EMBO reports	June 2013
Gurevich, Vishnivetskiy, Standfuss, Ostermaier et al.: [...] rhodopsin is effectively phosphorylated by different GRKs & binds arrestin-1, IOVS	March 2012
Albert, Léger-Silvestre, Normand, Ostermaier et al.: RNA pol I-specific subunits promote pol I clustering [...], JCB	Jan. 2011

CONFERENCES

Newcomer & Speaker: Top100 Swiss Startups, Zurich, Switzerland	Sep. 2017
Invited talks on entrepreneurship by the NCCR MSE, ZHAW & FHNW, Basel & Zurich, Switzerland	2016, 2017
Finalist & Speaker: Swiss Technology Award, Basel, Switzerland	Nov. 2016
Participation: Basel Life Science Week and MipTec, Basel, Switzerland	Sep. 2014, 2015
Participation: Protein Structure Determination in Industry, Lucerne, Switzerland	Sep. 2013
Organization & first prize talk: 6 th Retreat of Biomolecular Structure & Mechanism Graduate School, Baar, Switzerland	July 2013
Talk: Gordon Research Seminar on Molecular Pharmacology, Lucca, Italy	Apr. 2013
Talk & award-winning poster: 15 th International Conference on Retinal Proteins, Ascona, Switzerland	Oct. 2012
First prize poster: 8 th International Conference on Ribosome Synthesis, Regensburg, Germany	Aug. 2009

HONORS & PRIZES

PSI Impuls Preis (awarding translational research activities)	May 2016
Venture Kick I, II & III (Swiss start-up competition program)	Feb. 2015 – Feb. 2016
BSM (Biomolecular Structure & Mechanism) PhD Program	Apr. 2010 – Apr. 2014
ERASMUS (European Student Exchange Program)	Oct. 2009 – Feb. 2010
DAAD (German Academic Exchange Service)	May 2009 – Aug. 2009
NSCS (National Society of Collegiate Scholars), USA	Feb. 2008 – ongoing
ISAP (International Study and Training Partnerships)	Sep. 2007 – May 2008
BayBFG (Bavarian State Program for the Highly Gifted)	Oct. 2004 – Sep. 2009
Valedictorian at König Karlmann Grammar School, Altötting	May 2003

EXTRACURRICULAR

PSI Forum, Villigen: Museum guide, Sundays	Nov. 2011 – Sep. 2012
Zephyr Adventures, US travel company: Tour guide	July 2009
Bavarian Red Cross: Organization of blood donor days	Jan. 2004 – Sep. 2004
Mountain Infantry: Basic training of military service	Oct. 2003 – Dec. 2003
Farm, Altötting: Operation of 600-tonne grain system	July 2001 – Aug. 2007

LANGUAGES

Mother tongue	German
Fluent	English
Basic (A2)	French
Advanced	Latin