

BIOSKETCH

Andreas Wagner

Personal Information

Nationality: Austria / U.S.A. (dual)

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[Google Scholar](#) Profile

ORCID: 0000-0003-4299-3840

Education

1995 **Ph.D.**, Yale University, Dept. of Biology
1994 **M. Phil.**, Yale University, Dept. of Biology
1990 **M.Sc.**, Univ. of Vienna, Dept. of Molecular Genetics, "with honors"

Positions

2011- **Professor** (full), Univ. of Zürich, Dept. of Evolutionary Biology and Environmental Studies, Zürich, Switzerland
2016-2020 Chairman, Univ. of Zürich, Dept. of Evolutionary Biology and Environmental Studies, Zürich, Switzerland
1999 - External Professor, The Santa Fe Institute, New Mexico, U.S.A.
2006-2010 Professor (full), Univ. of Zürich, Institute of Biochemistry
2002-2012 Associate Professor (with tenure), Univ. of New Mexico, Department of Biology
1998-2002 Assistant Professor, University of New Mexico, Department of Biology
1996-1998 Postdoctoral Fellow, The Santa Fe Institute
1995-1996 Fellow, Institute for Advanced Study Berlin, Germany

Institutional Responsibilities (selected)

2016-2020 Faculty Board ("Fakultätsausschuss"), Faculty of Science, Univ. Zürich (UZH)
2020- Committee to Support Young Scientists ("Nachwuchsförderungskommission"), UZH
2009- Steering Committee, Evolutionary Biology Ph.D. Program, UZH
2012- Steering Committee, Research Priority Program "Evolution in Action", UZH
2007-2012 Steering Committee, Research Priority Program "Systems Biology", UZH

Funded Grants (selected, current or ending within last 5 years, as sole PI)

2017-2022 Noise and robustness in the evolution of novel protein phenotypes (*ERC Advanced Grant*, sole PI, EUR 2'383'444)
2018-2021 Robustness and weakened selection in the adaptive evolution of fluorescent proteins (*SNSF project grant*, sole PI, awarded 1.2 M CHF, requested reduction to CHF 332'713 due to overlap with ERC Advanced Grant)
2014-2017 Phenotypic innovation, robustness, and recombination in genome-scale metabolic Networks (*SNSF project grant*, sole PI, CHF 638,880).

Supervision of Graduate Students (33 total)

Vardan Andriasyan, Aditya Barve, Manuel Bichsel, Tugce Bilgin, Sinisa Bratulic, Giovanni Bussotti, Gavin C. Conant, Nicole de la Chaux, Riddhiman Dhar, Roman Doronin, Annette Evangelisti, Evandro Ferrada, Alexandre Figueireido (w. Rolf Kümmerli), Mike Fuller, Leander Goldbach, Marc Hafner (w. M. Hasler), Rzgar Hosseini, Camille Jourdan, Malami Koletou, Pierre Laye, Debbie Leigh (w. Lukas Keller), Felix Moerman (w. Florian Altermatt), Christian Ramos Uriá, Joao Rodriguez, Saurabh Pophaly, Jose Aguilar Rodriguez, Maria Magdalena San Roman, Michael Schmutzer, Kasia Sluzek (w. Lukas Keller), Yiqiao Sun, Nadine Thierer, Ali Rezaee Vahdati, Caua Westmann

Supervision of Postdoctoral Fellows (32 total)

Eugenio Azpeitia, Carla Bello, Tess Brewer, Gopinath Chattopadhyay, Bing Chen, Athena Chu, Pouria Dasmeh, Carlos Espinosa-Soto, Timothy Fuqua, Susannah Green (with S. Ruby), Michael Gilchrist, Jordi van Gestel, Eric Hayden, Shraddha Karve, Adrian Lopez, Andrei Papkou, Joshua Payne, Diego Pesce, Karthik Raman, Daniel Rankin, Bharat Ravi Iyengar, Mariana Ricca, Elias Zamora-Silero, Kathleen Sprouffsky, Peter Szoevenyi, Niv Sabath, Yolanda Schaerli, Charles de Santana, Gabriel Schweizer, Macarena Toll-Riera, Jia Zheng

Teaching (selected, out of 15 unique courses)

2013- Lecture and Laboratory Course “Evolution”, Univ. of Zurich
2013- Laboratory Course “Practical Bioinformatics”, Univ. of Zurich,
2008- Lecture Course “Functional Genomics“, Univ. of Zurich
2007-2012 Lecture Course “Foundations of Molecular Evolution”, UNM
2004 Lecture Course “Evolution”, UNM
1999, ‘00, ‘01, ‘03, ‘06 Lecture Courses “Evolutionary Genetics” , “Introductory Genetics”, UNM
1994 Laboratory Course, “Genetics”, Yale University.

Commissions of Trust (selected)

2017 Jury, Motoo Kimura Lifetime Contribution Award (Soc. for Molecular Biology and Evolution)
2014-2019 Science Advisory Board, The Santa Fe Institute, Santa Fe, NM, U.S.A.
2013- Review Panel, Swiss National Science Foundation “Ambizione” Fellowship
2010 Evaluation Panel, Center for Genomic Regulation (CRG), Barcelona
2008, 2010 Jury (chair in 2010), Swiss Inst. of Bioinformatics, Young Bioinformatician Award

Organization of conferences

2016, 2018 Program Committee Member, International Conference for Systems Biology (ICSB),
2014 Origins of novelty in biological, social, and technological systems, Santa Fe Institute, U.S.A
2012 Robustness in biological systems, Mathematical Biology Institute, Ohio State Univ., U.S.A.

Fellowships and Awards (selected)

2014 Elected Member, European Molecular Biology Organization (EMBO)
2011 Elected Fellow, American Association for the Advancement of Science
2010 Gold medal for *Paradoxical Life*, best Science books of 2009, Independent Publisher Book Awards 2010
2004- Member, Faculty of 1000 Biology
1996-1998 Postdoctoral Fellowship, The Santa Fe Institute
1995-1996 Fellow, Institute for Advanced Study (Wissenschaftskolleg) Berlin, Germany
1995 J.S. Nicholas Prize for Best Dissertation, Yale University
1994 G. Evelyn Hutchinson Prize, Yale University

Publication Summary

240 peer-reviewed articles or book chapters

5 books (all sole-authored)

Total citations: >21000

h-index: 72 ([Google Scholar](#))

Media coverage

Our work and publications have received editorial and news coverage in scientific journals (*Science*, *Nature*, *P.N.A.S.*, *Genome Biology and Evolution*, *Lab Times*), prominent radio shows (*BBC World Service*, *BBC Radio 4 – Start The Week*, *Irish Newstalk*), as well as newspapers and magazines (*Times*

Higher Education, The Sunday Times, The Guardian, The Financial Times, die Süddeutsche Zeitung, BBC Wildlife, Wired Magazine, Forbes.com, Nautilus, the New Scientist, Aeon, etc.)

Outreach

The central question in my lab's research – how does the new come into being – is also of substantial interest to the general public. My most recent general audience book *Arrival of The Fittest* (Penguin Random House 2014) has been named a *Sunday Times* “Best Science Books of the Year”, and a *Financial Times* “Readers’ Books of the Year”. BBC Focus magazine referred to it as “mandatory, corrective reading...mind-bending... tremendously exciting”, and *The Independent*, which also listed it as a “Best Books of the Year” called it a “truly revolutionary book”.