Curriculum Vitae

Personal Data

Title	Prof. Dr.
First name	Peter F.
Name	Stadler
Current position	Full Professor of Bioinformatics
Current institution(s)/site(s), country	Leipzig University, Germany
Identifiers/ORCID	0000-0002-5016-5191

Qualifications and Career

Stages	Periods and Details
Degree programme	1984 – 1990: Studies at the University of Vienna: Undergraduate degrees (1. Diplom) in Chemistry 1986, Astronomy 1988, Physics 1989, Mathematics 1990 MSc in Chemistry 1988
Doctorate	1988 – 1990: Dissertation at the Institute for Theoretical Chemistry, University of Vienna, Austria (PhD in Chemistry)
Stages of academic/professional career	
Since March 2009:	External Scientific Member of the Max Planck Society, affiliated with the MPI "Mathematics in the Sciences" in Leipzig, Germany
Since September 2002:	Full Professor of Bioinformatics, University Leipzig, Germany
1997 – 2002:	Außerordentlicher Universitätsprofessor, University of Vienna, Austria
1994:	Habilitation: Venia Legendi for Theoretical Chemistry, University of Vienna, Austria
1991 – 1994:	Universitätsassistent at the Institute for Theoretical Chemistry and Radiation Chemistry, University of Vienna, Austria
1990 – 1991:	Postdoc at the Department for Biochemical Kinetics, Max Planck, Institute for Bio-Physical Chemistry, Göttingen, Germany

Engagement in the Research System

- Co-editor-in-chief:
    - Algorithms for Molecular Biology (together with Burkhart Morgenstern)
    - Theory in Biosciences (together with Jürgen Jost und Manfred Laubichler)
- Editor by:

        o RNA (responsible for bioinformatics/computational biology)
- Member of the Editorial Board by:
  - Advances in Complex Systems
  - Journal of Experimental Zoology
  - BMC Bioinformatics
  - BMC Evolutionary Biology
  - Journal of Bioinformatics and Computational Biology
  - Journal of Systems Chemistry
  - LIFE
  - Mathematics in Computer Science

Supervision of Researchers in Early Career Phases

During his career, Peter successfully supervised more than 50 PhD students of which 8 (Steve Hoffmann, Marc Hellmuth, Manja Marz, Sonja J Prohaska, Clara Isabel Bermudez Santana, Maribel Hernández Rosales, Sarah Berkemer, Arli Aditya Parikesit) have a professor position to date.

Finished Ph.D. students (2019-2023): Yazbeck, Ali; Scheibe, Patrick; Berkemer, Sarah; Geiß, Manuela, Gärtner, Fabian, Retzlaff, Nancy, Hoffmann, Anne; Sen, Rituparno; Engelhardt, Jan; Saker, Halima; Riverola-Duarte, Lorena; Schaller, David; Rodriguez Fernandez, Angel; Gatter, Thomas; Kühnl, Felix; Leal, Wilmer; Lozada-Chavez, Irma; Nunn, Adam; Velandia Huerto, Cristian Arley;

Project funded PostDocs (2019-2023): Gatter, Thomas; Jorge, Natasha; Kehr, Stephanie; Lozada Irma; Santiago Arguello, Anahy; Guillaume, Scholz; Korchmaros, Annachiara

Scientific Results

Citations: >71,000, H-Index 113
https://scholar.google.de/citations?user=pVnGRlkAAAAJ&hl=de

Category A

1) Stefan Washietl, Ivo L. Hofacker, Melanie Lukasser, Alexander Hüttenhofer, and Peter F. Stadler. Mapping of conserved RNA secondary structures predicts thousands of functional non-coding RNAs in the human genome. Nature Biotech., 23:1383–1390, 2005.
2) P Kapranov, J Cheng, S. Dike, D Nix, R. Duttagupta, A. T. Willingham, P. F. Stadler, J. Hertel, J. Hackermüller, I. L. Hofacker, I. Bell, E. Cheung, J. Drenkow, E. Dumais, S. Patel, G. Helt, G. Madhavan, A Piccolboni, V Sementchenko, H. Tammana, and T. R. Gingeras. RNA maps reveal new RNA classes and a possible function for pervasive transcription. Science, 316:1484–1488, 2007.
3) Cynthia M. Sharma, Steve Hoffmann, Fabien Darfeuille, Jeremy Reignier, Sven Findeiß, Alexandra Sittka, Sandrine Chabas, Kristin Reiche, Jörg Hackermüller, Richard Reinhardt Reinhardt, Peter F. Stadler, and Jörg Vogel. The primary transcriptome of the major human pathogen Helicobacter pylori. Nature, 464:250–255, 2010.
4) Alexander J. Westermann, Konrad U. Förstner, Fabian Amman, Lars Barquist, Yanjie Chao, Leon Schulte, Lydia Müller, Richard Reinardt, Peter F. Stadler, and Jörg Vogel. Dual RNAseq unveils noncoding RNA functions in host-pathogen interactions. Nature, 529:496–501, 2016.

5) Aniela Skrzypczyk, Stephanie Kehr, Ilona Krystel, Stephan H. Bernhart, Shibashish Giri, Augustinus Bader, and Peter F. Stadler. Non-coding RNA transcripts during differentiation of human induced pluripotent stem cells into hepatocytes. Stem Cells Int., 2018:5692840, 2018.

6) Jakob L. Andersen, Christoph Flamm, Daniel Merkle, and Peter F. Stadler. Defining auto-catalysis in chemical reaction networks. J. Syst. Chem., 8:121–133, 2020.

7) Thomas Gatter and Peter F. Stadler. Ryuto: Improved multi-sample transcript assembly for differential transcript expression analysis. Bioinformatics, 37:4307–4313, 2021.

8) David Schaller, Marc Hellmuth, and Peter F. Stadler. A simpler linear-time algorithm for the common refinement of rooted phylogenetic trees on a common leaf set. Alg. Mol. Biol., 16:23, 2021.

9) Wilmer Leal, Guillermo Restrepo, Peter F. Stadler, and Jürgen Jost. Forman-Ricci curvature for hypergraphs. Adv. Complex Syst., 24:2150003, 2021

10) Thomas Gatter, Sarah von Loehneysen, Jörg Fallmann, Polina Drozdova, Tom Hartmann, and Peter F. Stadler. LazyB: Fast and cheap genome assembly. Alg. Mol. Biol., 16:8, 2021.

Academic Distinctions

- Honorary Professor, Faculty of Sciences, U Nacional de Colombia, Bogota since 2018
- Corresponding member of the Austrian Academy of Sciences since 2010.
- Member of the External Faculty of the Santa Fe Institute, New Mexico, 1994-2003, and since 2004.
- Member of the Board of the Biotechnologisch-Biomedizinisches Zentrum (BBZ) of the University Leipzig, since 2003.
- Member of the Board of the Interdisziplinäres Zentrum für Bioinformatik (IZBI), Leipzig, since 2002.
- Member of the Board of the Chemisch Physikalische Gesellschaft in Wien, elected for the periods 2000/2001 and 2001/2002.
- Novartis-Award for Chemistry (Austria) 2002
- Otto-Hahn Medal of the Max Planck Society 1992

Leipzig, 05 July 2023

Data protection and consent to the processing of optional data
I expressly consent to the processing of the voluntary (optional) information, including "special categories of personal data"[1] in connection with the DFG's review and decision-making process regarding my proposal. This also includes forwarding my data to the external reviewers, committee members and, where applicable, foreign partner organisations who are involved in the decision-making process. To the extent that these recipients are located in a third country (outside the European Economic Area), I additionally consent to them being granted access to my data for the above-mentioned purposes, even though a level of data protection comparable to EU law may not be guaranteed. For this reason, compliance with the data protection principles of EU law is not guaranteed in such cases. In this respect, there may be a violation of my fundamental rights and freedoms and resulting damages. This may make it more difficult for me to assert my rights under the General Data Protection Regulation (e.g. information, rectification, erasure, compensation) and, if necessary, to enforce these rights with the help of authorities or in court.

I may **revoke** my consent in whole or in part at any time – with effect for the future, freely and without giving reasons – vis-à-vis the DFG (postmaster@dfg.de). The lawfulness of the processing carried out up to that point remains unaffected. Insofar as I transmit "special categories of personal data" relating to third parties, I confirm that the necessary legitimation under data protection law exists (e.g. based on consent).

I have taken note of the DFG's Data Protection Notice relating to research funding, which I can access at www.dfg.de/privacy_policy and I will forward it to such persons whose data the DFG processes as a result of being mentioned in this CV.

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[1] Special categories of personal data are those "revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and (...) genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation" (Article 9(1) GDPR).