

Curriculum Vitae

Personal Data

Title	Prof. Dr. rer. nat.
First name	Geraldine
Name	Zimmer-Bensch
Current position	University Professor (permanent)
Current institution(s)/site(s), country	RWTH Aachen University, Division of Neuroepigenetics, Germany
Identifiers/ORCID	T-6198-2018 / 0000-0002-8894-8079

Qualifications and Career

Stages	Periods and Details
Degree programme	Biology Diploma, 1997-2002, Jena, Germany
Doctorate	19.1.2007, Prof. Jürgen Bolz, General Zoology, Friedrich-Schiller University Jena
Stages of academic/professional career (optional after doctorate)	Since 2018 Professor, Institute of Zoology, Division of Neuroepigenetics, RWTH Aachen University, Germany 2012-2018 Group Leader, Institute for Human Genetics, University Hospital Jena, Germany 2008-2011 Postdoctoral Associate, Institute for General Zoology and Animal Physiology, Friedrich-Schiller University of Jena, Germany 2007-2008 Postdoctoral Associate, Institute of Anatomy, Federal University of Rio de Janeiro, Brasil

Supplementary Career Information

Career Breaks

2013-2014 maternity leave first child (15 months)

2017-2018 maternity leave second child (12 months)

Engagement in the Research System

DFG Panel member: Call for Sequencing Costs 2019, 2020, 2021, 2022

DFG SFB Reviewer: 2022, 2023

- Faculty board member (RWTH Aachen)
- Spokesperson of the Biology Department (RWTH Aachen)
- Chairwoman of the EPG (evaluation project group) (RWTH Aachen)
- Member of the graduate commission (RWTH Aachen)
- Member of the examination board (RWTH Aachen)
- Member of the commission to improve teaching (RWTH Aachen)
- Member of the LOM-commission (RWTH Aachen)
- Faculty representative of the central equal opportunity commissioner (RWTH Aachen)
- Compliance officer for teaching post (RWTH Aachen)

Member in appointment committees:

1x Head of the appointment committee (RWTH Aachen)

5x Professorial member (RWTH Aachen)

3x Vice professorial member (RWTH Aachen)

3x Faculty representative of the central equal opportunity commissioner (RWTH Aachen)

Editorial duties for: Cells, Frontiers, Neurogenetics

Teaching:

Master Biologie; Medical Life Science and Biotechnology:

Theory of Epigenetics

Lecture: „Epigenetic principles in human development, health and disease“

Seminar: „Epigenetic gene regulation in health and disease“

Practical Epigenetics

Practical course: „Epigenetics“

Research Practical Epigenetics

Practical course: „Epigenetic mechanisms in neuronal development, function and dysfunction“

Seminar: „Epigenetic mechanisms in neuronal degeneration“

Master Teaching Biology:

Humanbiology

Lecture: „Humanbiologie“

Seminars:

„Humanbiologie I“, „Humanbiologie II“

Bachelor Biology

Bau der Organismen (practical course)

Bachelor Teaching Biology:

Practical course: „Parasiten des Menschen“

Practical course: „Entomologie“

Practical course: „Verhaltensbiologie“

Supervision of Researchers in Early Career Phases *optional, free text*

PhD students

since 2023 **Jian Du**

since 2022 **Philip Wolff**

since 2022 **Can Yildiz**

Since 2020 **Georg Pitschelatow**

Since 2020 **Jenice Linde;**

Since 2020 **Julia Reichard;**

2018-2022 **Clara Voelz (magna cum laude);** current position as postdoc in the anatomy (UKA, Aachen)

2019-2022 **Julia Piche (magna cum laude);** current position in Industry

2017-2021 **Cathrin Bayer (magna cum laude);** research assistant at the UKA, Neurology, Jena

2013-2017 **Judit Symmank;** Titel: „Die Rolle von DNMT1 bei der postmitotischen Entwicklung von inhibitorischen kortikalen Interneuronen“ (**summa cum laude**), current position: Junior Research group leader at the University Hospital Jena

2012-2016 **Daniel Pensold;** Titel: „Single cell transcriptomics reveal regulators of progenitor cell fate and postmitotic maturation during brain development“ (**magna cum laude**), current position: scientific coordinator at the MPI München

Scientific Results

Category A *required, free text*

1. Yildiz CB, Kundu T, Gehrman J, Koesling J, Ravaei A, Wolff P, Kraft F, Maié T, Jakovcevski M, Pensold D, Zimmermann O, Rossetti G, Costa IG, **Zimmer-Bensch G** (2023). *EphrinA5 regulates cell motility by modulating Snhg15/DNA triplex-dependent targeting of DNMT1 to the Ncam1 promoter.* Epigenetics Chromatin. 2023 Oct 26;16(1):42. doi: 10.1186/s13072-023-00516-4.
2. Pensold D, Gehrman J, Pitschelatow G, Wahlberg A, Braunsteffer K, Reichard J, Ravaei A, Linde J, Lampert A, Costa I and **Zimmer-Bensch G** (2021) The Expression of the Cancer-Associated lncRNA Snhg15 Is Modulated by EphrinA5-Induced Signaling. Int. J. Mol. Sci., 2021, 22(3), 1332. DOI: 10.3390/ijms22031332. PMID: 33572758
3. Bayer C, Pitschelatow G, Hannemann N, Linde J, Reichard J, Pensold D and **Zimmer-Bensch G** (2020) DNA Methyltransferase 1 (DNMT1) Acts on Neurodegeneration by Modulating Proteostasis-Relevant Intracellular Processes. Int. J. Mol. Sci., 2020, 21(15), 5420
4. Hahn A, Pensold D, Bayer C, Tittelmeier J, González-Bermúdez L, Marx-Blümel L, Linde J, Groß J, Salinas-Riester G, Lingner T, von Maltzahn J, Spehr M, Pieler T, Urbach A and **Zimmer-Bensch G** (2020) DNA Methyltransferase 1 (DNMT1) Function Is Implicated in the Age-Related Loss of Cortical Interneurons. Front. Cell Dev. Biol, 2020. doi.org/10.3389/fcell.2020.00639
5. Symmank J, Bayer C, Reichard J, Pensold D and **Zimmer-Bensch G** (2020) Neuronal Lhx1 expression is regulated by DNMT1-dependent modulation of histone marks. Epigenetics, 2020 May 22:1-16.
6. Pensold D, Reichard J, Van Loo KMJ, Ciganok N, ... Becker AJ and **Zimmer-Bensch G** (2020) DNA methylation-mediated modulation of endocytosis as potential mechanism for synaptic function regulation in murine inhibitory cortical interneurons. Cerebral Cortex (2020) Volume 30, Issue 7, July 2020, Pages 3921–3937
7. Symmank J, Gölling V, Gerstmann K and **Zimmer G** (2019) The Transcription Factor LHX1 Regulates the Survival and Directed Migration of POA-derived Cortical Interneurons. Cerebral Cortex 2019 Apr 1;29(4):1644-1658. doi: 10.1093/cercor/bhy063. PMID: 29912395
8. Symmank J, Bayer C, Schmidt C, Hahn A, Pensold D and **Zimmer-Bensch G** (2018) DNMT1 modulates interneuron morphology by regulating Pak6 expression through crosstalk with histone modifications. Epigenetics, 2018 Jun 18.
9. Pensold D, Symmank J, Hahn A, Lingner T, Salinas-Riester G, Donnie B, Ludewig F, Rotzsch A, Haag N, Andreas N, Schubert K, Hübner C, Pieler T, **Zimmer G** (2017) The DNA Methyltransferase 1 (DNMT1) Controls the Shape and Dynamics of Migrating POA- Derived Interneurons Fated for the Murine Cerebral Cortex. Cerebral Cortex 2017 Dec 1;27(12):5696-5714.

10. Gerstmann K, Pensold D, Symmank J, Khundadze M, Hübner Ch, Bolz J, **Zimmer G** (2015) Thalamic afferents influence cortical progenitors via ephrinA5/EphA4 interactions. Development 142:140-150.

Category B

Academic Distinctions *optional, free text*

2016 Recipient of Women in Science fellowship, IZKF Jena
2012 Recipient of Prochance Support for Junior Researchers, FSU Jena
2010 Recipient of Prochance fellowship, FSU Jena
2009 Recipient of Postdoctoral-fellowship: *Carl-Zeiss Foundation*
2007 Recipient of Postdoctoral-fellowship: *Conselho Nacional de Desenvolvimento Científico e Tecnológico - "National Counsel of Technological and Scientific Development"* (CNPq), Brasil 2
2003/2004 Recipient of Women in Science fellowship (LUBOM, FSU Jena)

Other Information

Data protection and consent to the processing of optional data

If you provide voluntary information (marked as optional) in this CV, your consent is required. Please confirm your consent by checking the box below.

I expressly consent to the processing of the voluntary (optional) information, including “special categories of personal data” 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.