Curriculum Vitae

Personal Data

Title	PD Dr. habil.
First name	Heiko
Name	Harten
Current position	Tenured group leader
Current institution(s)/site(s), country	University of Osnabrück, Osnabrück, Germany
Identifiers/ORCID	ORCID-ID: 0000-0002-3304-4523

Qualifications and Career

Stages	Periods and Details	
Degree programme	1996 – 2001	Biology studies, University of Osnabrück, Osnabrück, Germany
Doctorate	2006	Institute for Animal Physiology, University of Osnabrück, Germany, Supervisor: Prof. Dr. Helmut Wieczorek
Stages of academic/professional Career	2006-2013	Postdoctoral fellow, University of Osnabrück (with Prof. Dr. A. Paululat)
	Since 2013	Group leader, University of Osnabrück
	Since 2016	Co-organizer of the international Summer School „Biomembranes & Cellular Microcompartments“; responsible for scientific program
	2018	Research internship, University of Manitoba, Winnipeg, Canada (with Prof. Dr. D. Weihrauch)
	2020	Research internship, National Institute for Physiological Sciences, Okazaki, Japan (with Prof. Dr. M. Furuse)
	2023	Habilitation (venia legendi: Zoology and Animal Physiology)

Activities in the Research System

Since 2008	Member of the Departmental Council of the Department of Biology/Chemistry at Osnabrück University
2008-2014	Member of the Committee for University Sports of the University and the University of Applied Sciences of Osnabrück
Since 2010	Member of the examination board of the following study programs: Biological Sciences (Bachelor's/Master's programs), Teaching Biology (Bachelor's/Master's programs)
2012	Co-Organizer of the 18th regional *Drosophila*-Meeting
2015	Member of the appointment committee for the W3 professorship "Behavioral Biology" at Osnabrück University
2015	Content and editing of the 10th edition of the textbook "Campbell Biology".
2016-2017	Member of the appointment committee for the W3 professorship "Animal Physiology" at Osnabrück University
2017	Member of the organizing committee for planning the "Night of the Sciences" at Osnabrück University
2019	Content and editing of the 11th edition of the textbook "Campbell Biology".
2020	Member of the appointment committee for the W3 professorship "Animal Physiology" at Osnabrück University
Since 2024	Chairman of the Biology Examination Board at Osnabrück University
2025	Content and editing of the 12th edition of the textbook "Campbell Biology".

Supervision of Researchers in Early Career Phases

Supervised Dissertations

Completed	**Topic**
Dr. Mareike Panz (**2012**):	Functional analysis of the metalloprotease Neprilysin 4 from *Drosophila melanogaster*. Current position: Medical consultant at "Dr. August Wolff GmbH & Co. KG", Bielefeld, Germany
Dr. Benjamin Hallier (**2017**):	Characterization of a novel mechanism to regulate insulin signaling. Current position: Field service employee at "Diagonal GmbH & Co. KG", Münster, Germany

Dr. Ronja Schiemann (**2022**):	Identification of new mechanisms to regulate muscle and heart contraction. Current position: PostDoc at the Max Delbrück Center, Berlin, Germany (with Prof. Dr. Carmen Birchmeier)
Dr. Annika Buhr (**2025**):	Neprilysin 4 regulates muscle contraction and male fertility in *Drosophila melanogaster*

Ongoing

M.Sc. Maike Spielmeyer (**2025-**):	Molecular analysis of Nep4 function in heart physiology and beyond

Scientific Results

Category A

(* co-corresponding)

Note: The applicant publishes under his birth name (Meyer, H.)

Buhr, A., Spielmeyer, M., Breitsprecher, L., Franzkoch, R., Kipp, I., Psathaki, O.E., Cordes, E., Paululat, A., and Meyer, H. **2025**. Neprilysin 4 controls acrosome structure and male fertility in *Drosophila melanogaster*. *Commun Biol*, 8:1701.

Meyer, H., Bossen, J., Janz, M., Müller, X., Künzel, S., Roeder, T.,* and Paululat, A.* **2024**. Combined transcriptome and proteome profiling reveal cell-type-specific functions of *Drosophila* garland and pericardial nephrocytes. *Commun Biol* 7:1424.

Buhr, A., Schiemann, R., and Meyer, H. **2023**. Neprilysin 4: An essential peptidase with multifaceted physiological relevance. *Biol Chem*, 404(5):513-520.

Schiemann, R., Buhr, A., Cordes, E., Walter, S., Heinisch, J.J., Ferrero, P., Milting, H., Paululat, A., and Meyer, H. **2022**. Neprilysins regulate muscle contraction and heart function via cleavage of SERCA-inhibitory micropeptides. *Nat Commun*, 13(1):4420.

Klinke, N., Meyer, H., Ratnavadivel, S., Reinhardt, M., Heinisch, J.J., Malmendal, A., Milting, H., and Paululat, A. **2022**. A *Drosophila melanogaster* model for TMEM43 related Arrhythmogenic right ventricular cardiomyopathy type 5. *Cell Mol Life Sci*, 79(8):444.

Santalla, M., Garcia, A., Mattiazzi, A., Valverde, C.A., Schiemann, R., Paululat, A., Hernandez, G., Meyer, H.*, and Ferrero, P.* **2022**. Interplay between SERCA, 4E-BP and eIF4-E in the *Drosophila* heart. *PLOS ONE*, 17(5):e0267156. (*co-corresponding authors)

Meyer, H.*, Buhr, A., Callaerts, P., Schiemann, R., Wolfner, M.F., and Marygold, S.J.* **2021**. Identification and bioinformatic analysis of neprilysin and neprilysin-like metalloendopeptidases in *Drosophila melanogaster*. *MicroPubl Biol*, doi:10.17912/micropub.biology.000410. (*co-corresponding authors)

Rotstein, B., Post, Y., Reinhardt, M., Lammers, K., Buhr, A., Heinisch, J.J., Meyer, H., and Paululat, A. **2018**. Distinct domains in the matricellular protein Lonely heart are crucial for cardiac extracellular matrix formation and heart function in *Drosophila*. *J Biol Chem*, 293:7864-7879.

Drechsler, M., Meyer, H., Wilmes, A.C., and Paululat, A. **2018**. APC/C(Fzr) regulates cardiac and myoblast cell numbers, and plays a crucial role during myoblast fusion. *J Cell Sci*, 131(14):jcs209155.

Hallier, B., Schiemann, R., Cordes, E., Vitos-Faleato, J., Walter, S., Heinisch, J.J., Malmendal, A., Paululat, A., and Meyer, H. **2016**. *Drosophila* neprilysins control insulin signaling and food intake via cleavage of regulatory peptides. *eLife*, doi: 10.7554/eLife.19430.

Category B

Note: The applicant publishes under his birth name (Meyer, H.)

Schiemann, R. and Meyer, H. **2023**. Chapter in „Rawlings - Vol. 1 - Handbook of Proteolytic Enzymes: Metallopeptidases, 4th Edition", ISBN: 9780128235874

Meyer, H. **2022**. Das Herz im richtigen Rhythmus halten – Osnabrücker Entwicklungsbiologen entdecken neuen Mechanismus zur Regulation der Herzfunktion. *https://www.uni-osnabrueck.de/campusleben/uni-news/pressemeldungen/details-pressemeldungen/2022/08/das-herz-im-richtigen-rhythmus-halten-osnabruecker-entwicklungsbiologen-entdecken-neuen-mechanismus*

Meyer, H. **2016**. Diabetesforschung: Neuer Mechanismus zur Regulation des Insulin-Stoffwechsels gefunden. *http://www.innovations-report.de/html/berichte/biowissenschaften-chemie/diabetesforschung-neuer-mechanismus-zur-regulation-des-insulin-stoffwechsels-gefunden.html*

Academic Distinctions

2002-2005	Research fellowship of the state of Lower Saxony
2003-2005	Research fellowship of the Hans Mühlenhoff Foundation
2012-2013	Research fellowship of the SFB 944
2015-2016	Research fellowship of the University of Osnabrück
2016-2017	Research fellowship of the SFB 944