


LUKAS P. FEILEN

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WORK EXPERIENCE

Postdoctoral Researcher

Section for Biomolecular Sciences, Department of Biology, University of Copenhagen

 since November 2022  Copenhagen, Denmark

Doctoral Researcher

German Center for Neurodegenerative Diseases

 2016-2022  Munich, Germany

Research Assistant

Structural Biology Group, Heidelberg University Biochemistry Center

 2015-2016  Heidelberg, Germany

EDUCATION

Doctoral Researcher

Biochemistry

 2016-2022  Munich, Germany

Ludwig Maximilians-University & German Center for Neurodegenerative Diseases (DZNE)

Supervisor: Prof. Dr. Harald Steiner

Project: Lipids and substrate recognition motifs in presenilin intramembrane proteolysis

Master of Science

Molecular Biotechnology

 2013 - 2016  Heidelberg, Germany

Ruprecht-Karls-University Heidelberg


Major: Biophysical Chemistry

Supervisors: Dr. Klemens Wild & Prof. Dr. Irmgard Sinning

Project: From the N- to the C-terminus: Structural investigations on the amyloid precursor protein

Bachelor of Science

Molecular Biotechnology

 2010 - 2013  Heidelberg, Germany

Ruprecht-Karls-University Heidelberg

Major: Biophysical Chemistry

Supervisor: Dr. Ilka Bischofs

Project: Minimizing background signals of fluorescent integration vectors by transcriptional terminators

SCHOLARSHIPS & GRANTS

2019 - International Proteolysis Society (Travel Grant)

2011 - Konrad-Adenauer-Stiftung (Scholarship for talented students, until 2016)

POSTER PRESENTATIONS

2022 - 2nd International Meeting of the DFG research unit FOR2290 'Understanding Intramembrane Proteolysis', Munich, Germany

2019 - 11th General Meeting of the International Proteolysis Society, Marienbad, Czech Republic

2018 - Scientific evaluation of DZNE within the Program-Oriented Funding of Helmholtz Association, Bonn, Germany

2018 - Evaluation of DFG research unit FOR2290 'Understanding Intramembrane Proteolysis', Munich, Germany

2018 - Retreat for Docotral Researchers at DZNE, Cologne, Germany

PUBLICATIONS

Feilen, L. P., Chen, SY., Fukumori, A., Feedlerle, R., Zacharias, M. and Steiner, H. (2022). Active site geometry stabilization of a presenilin homolog by the lipid bilayer promotes intramembrane proteolysis. *eLife*, 11:e76090. doi: <https://doi.org/10.7554/eLife.76090>

Fukumori, A., Feilen, L. P. and Steiner, H. (2020). Substrate recruitment by γ -secretase. *Semin. Cell Dev. Biol.*, 105. doi: [10.1016/j.semcdb.2020.03.006](https://doi.org/10.1016/j.semcdb.2020.03.006)

Feilen, L. P., Haubrich, K., Strecker, P., Probst, S., Eggert, S., Stier, G., Sinning, I., Konietzko, U., Kins, S., Simon, B. and Wild, K. (2017). Fe65-PTB2 dimerization mimics Fe65-APP interaction. *Front. Mol. Neurosci.*, 70 (140). doi: [10.3389/fnmol.2017.00140](https://doi.org/10.3389/fnmol.2017.00140)