Jun.-Prof. Dr. Franziska Traube
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Curriculum Vitae - Franziska Regine Traube

Personal

Born September 30th, 1989, in Ulm (Germany, nationality German), one child (born May 2018)

Research Profile

From 06/2023	**Professor (W1 tenure track W3) for Biochemistry of Cellular Biomedical Systems – University of Stuttgart**
08/2022 – 05/2023	**Independent Group Leader (TUM Junior Fellow / Liebig Fellow)** – **Technical University of Munich (TUM)** (Department of Bioscience)
10/2021 – 07/2022	**Independent Group Leader** – **University of Munich (LMU)** (Institute of Chemical Epigenetics)
02/2020 – 12/2020	**Postdoctoral Research Associate – LMU** Group of Prof. Dr. Thomas Carell (Department of Chemistry) Topic: Therapeutic nucleic acids
03/2015 – 02/2020	**Dr. rer. nat. in Organic Chemistry (equiv. PhD) – LMU** Group of Prof. Dr. Thomas Carell Title: "*Regulation of α-ketoglutarate dependent dioxygenase TET3 – novel insights into epigenetic mechanisms in neurons*" (summa cum laude)

Education

09/2024	**Bioinformatics, B.Sc. – LMU/TUM**
12/2014	**Biochemistry, M.Sc. – TUM** Majors: biochemistry, bioorganic chemistry, biophysics
06/2012	**Biochemistry, B.Sc. – TUM**
06/2009	**Abitur – Joachim-Hahn-Gymnasium Blaubeuren**

Additional Research Experience

08/2022 – 09/2024	**Visiting Scientist and Bioinformatics Bachelor student – TUM** Group of Prof. Dr. Julien Gagneur (Computational Molecular Medicine) Topic: Rare transcriptomic aberrations as drivers of hematologic malignancies
09/2020 – 12/2022	**Visiting Scientist – Max Planck Institute of Biochemistry** Group of Dr. Jürgen Cox (Computational Systems Biochemistry) Topic: Metabolomic data analysis
07/2014 – 12/2014	**Internship – Johns Hopkins University (Baltimore, USA)** Group of Prof. Dr. Marc Greenberg (Department of Chemistry) Topic: DNA lesions in nucleosomal DNA
10/2012 – 03/2013	**Student Research Assistant – Helmholtz Zentrum München** Group of Prof. Dr. Timm Schroeder (Research Unit of Stem Cell Dynamics) Topic: Stem cell fate decisions in hematopoiesis

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Fellowships and Awards

From 06/2025	Member of the "Die Junge Akademie" (Supporting Academies: The Berlin-Brandenburg Academy of Sciences and Humanities *(BBAW)* and the German National Academy of Sciences Leopoldina)
07/2024	Representative of the German Chemical Society Division Chemical Biology at the EuChemS Division of Chemistry in Life Sciences – Young Investigator Workshop in Galway, Ireland
03/2023 – 07/2023	Member of the "Junges Kolleg" of the Bavarian Academy of Sciences and Humanities (resigned 07/2023 due to the appointment as tenure track professor at a university outside Bavaria)
08/2022 – present	Liebig Fellowship of the Chemical Industry Fonds
03/2022 – 02/2024	Scholarship of the Daimler and Benz Foundation
12/2020	Römer-Preis PhD Award (Römer-Stiftung to promote young scientists at the Department of Chemistry/Biochemistry of the LMU)
11/2019	FEBS Journal Poster Prize EMBL Symposium "Metabolism meets Epigenetics"
12/2015 – 12/2017	Boehringer Ingelheim Fonds PhD Fellowship
10/2009 – 12/2014	Friedrich Ebert Stiftung Undergraduate Fellowship

Leadership and Additional Experience

06/2024	Organization of the SRCSB Day 2024 of the University of Stuttgart
04/2017	Participation as an LMU graduate student's representative in a panel discussion with the German Federal President *Dr. Frank-Walter Steinmeier*
10/2012 – 09/2013	Member of the TUM Senate and Supervisory Board (Topics included legal regulations, development planning of the university, election of the president and the vice presidents of the university)
10/2011 – 09/2013	Head of the Bavarian Student Council (Topics included representation of the Bavarian students' interests to the politicians and the public, participation in panels at the Bavarian State Ministry of Science, Research and the Arts)

Selected Publications

06/2024	Aumer T*, Däther M*, Bergmayr L*, Kartika S, Zeng T, Ge Qingyi, Giorgio G, Hess AJ, Michalkis M, Traube FR**#**. "The type of DNA damage response after Decitabine treatment depends on the level of DNMT activity" *Life Sci. Alliance* **7** (2024), e202302437.
05/2024	Cao X, Huber S, Ahari, AJ, Traube FR, Seifert M, Oakes CC, Secheyko P, Vilov S, Scheller I, Wagner, N, Yépez, VA, Blombery P, Haferlach T, Heinig M, Wachutka, L[#], Hutter S[#], Gagneur J[#]. "Analysis of 3760 hematologic malignancies reveals rare transcriptomic aberrations of driver genes" *Genome Med.* **16** (2024), 70.
09/2022	Aumer T*, Gremmelmaier CB*, Runtsch LS*, Pforr JC, Yeşiltaç GN, Kaiser S, Traube FR[#] "Comprehensive comparison between azacytidine and decitabine treatment in an acute myeloid leukemia cell line" *Clin. Epigenetics* **14** (2022), 314.

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07/2022	Traube FR*, Stern M*, Tölke AJ* et al. "Suppression of SARS-CoV-2 Replication with Stabilized and Click-Chemistry Modified siRNAs" *Angew. Chem. Int. Ed.* **61** (2022), e202204556.
03/2022	Traube FR#, Brás NF, Roos WP, Sommermann CC, Diehl T, Mayer RJ, Ofial AR, Müller M, Zipse H, Carell T# "Epigenetic anti-cancer treatment with a stabilized carbocyclic Decitabine analogue" *Chem. Eur. J.* **28** (2022), e202200640.
07/2021	Traube FR, Özdemir D, Sahin H et al. "Redirected nuclear glutamate dehydrogenase supplies Tet3 with a-ketoglutarate in neurons" *Nat. Commun.* **12** (2021), 4100.
01/2019	Traube FR*, Schiffers S*, Iwan K* et al. "Isotope-dilution mass spectrometry for exact quantification of noncanonical DNA nucleosides" *Nat. Protoc.* **14** (2019), 283 – 312.

* Shared first-authorship; # Corresponding authorship.

Teaching and Supervision Experience

Since 2024	Protein biochemistry (University of Stuttgart, Master Chemistry and Technical Biology, Bachelor Biochemistry from 10/2025 on)
Since 2023	Mass-spectrometry based proteomics – basics and application (University of Stuttgart, Master Chemistry and Technical Biology)
Since 2022	Content-related and formal supervision of five PhD students (100% female, 40% international, 60% financed via acquired third-party money)
2022	Lecturing on stereochemistry and alkyl halides (single lectures as part of the course "Organic Chemistry I"), TUM, Bachelor Chemistry and Biochemistry
2021	Perseus Tutorial at the MaxQuant Summer School
2015 – present	Supervision of several research internships, bachelor's, master's and PhD theses; instruction of technical assistants in biochemistry, molecular and cell biology, and chemical biology (LMU, TUM and University of Stuttgart)
2016 – present	Lecturing on protein-protein interactions (single lecture as part of the course "Chemical Biology – Basics of Cloning, Genomics and Proteomics"), LMU, Master Chemistry and Biochemistry
2016/2017	Organization and supervision of the "Chemical Biology" graduate students' lab course, LMU, Master Chemistry and Biochemistry