Dr. rer. nat.
SVENJA NELLINGER

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Geb. 13.01.1991 in Stuttgart

PROFESSIONAL AND SCIENTIFIC CAREER

Since 09/2025	**Research associate** (permanent position) **at the University of Stuttgart**, Germany (teaching, supervision of doctoral students, research projects)
11/2019 – 08/2025	**Scientific assistant at the Reutlingen Research Institute**, Reutlingen University, Germany (teaching, supervision of doctoral students, research projects)
11/2016 – 10/2019	**Doctoral scholarship** in the cooperative doctoral program "Intelligent Process and Material Development in Biomateriomics" Tübingen-Reutlingen Research area: Biomaterials, Extracellular matrix; metabolic glycoengineering

EDUCATION

since 10/2018	**“Baden-Württemberg-Zertifikat für Hochschuldidaktik”**; various basic and advanced university didactics course for lecturers (GHD) with the aim to receive the “BW-Zertifikat für Hochschuldidaktik”
11/2016 – 05/2022	**Doctorate at the University of Tübingen** Scholarship from the Ministry of Science, Research and the Arts Cooperative doctoral Topic: "Adipose stem cell-derived extracellular matrix - comparative characterization and evaluation as a biomaterial" Final grade: 1.0 (magna cum laude)
10/2014 – 10/2016	**Master's degree in Biology at the University of Hohenheim** Focus on Physiology Final grade: 1.4
10/2010 – 10/2014	**Bachelor's degree in Nutritional Sciences at the University of Hohenheim** Final grade: 2.3

FURTHER QUALIFICATIONS

- **Further training:**
  - Accreditation as first responder for Mental Health (Mental Health First Aid® International)
  - Basic and advanced course in project management (conducted by marenas consulting GmbH)
  - European Business Competence License (EBC*L) Level A (basics of business administration and accounting)
  - European Business Competence License (EBC*L) Level B (marketing and planning knowledge)

- **Voluntary activities**
  - Mentor at CyberMentor program (since 2023; supervised two schoolgirls so far) Mentoring program for girls in STEM subjects
  - Active member of the Young Scientist Forum of the German Society for Biomaterials National Chapter representative European Society for Biomaterials

SELECTED PUBLICATIONS

Dairy byproducts as sustainable alternatives to FCS in 2D and 3D skeletal muscle cell cultures. Baldeweg, T.H., Hubel, P., Günther, J., ***Nellinger, S****., Heine S., Kluger P.J. Bioresour. Bioprocess. 12, 101 (2025). https://doi.org/10.1186/s40643-025-00938-w*

Animal-Free Setup of a 3D Mature Adipocyte-Macrophage Co-Culture to Induce Inflammation In Vitro. S. Nowakowski, ***S. Nellinger****, F. B. Albrecht, and P. J. Kluger, " ." Adv. Healthcare Mater. 14, no. 22 (2025): 14, 2500779. https://doi.org/10.1002/adhm.202500779*

Gellan Gum Is a Suitable Biomaterial for Manual and Bioprinted Setup of Long-Term Stable, Functional 3D-Adipose Tissue Models. Albrecht, F.B.; Dolderer, V.; **Nellinger, S**.; Schmidt, F.F.; Kluger, P.J. Gels 2022 https://doi.org/10.3390/gels8070420

Cell-derived and enzyme-based decellularized extracellular matrix exhibit compositional and structural differences that are relevant for its use as a biomaterial. **Nellinger, S**., Mrsic, I., Keller, S., Heine, S., Southan, A., Bach, M., Volz, A.-C., Chassé, T., & Kluger, P. J. Biotechnology and Bioengineering 2022
https://doi.org/10.1002/bit.28047

An Advanced "clickECM" that Can be Modified by the Inverse-Electron Demand Diels-Alder Reaction. **Nellinger, S.**, Rapp, M. A., Southan, A., Wittmann, V., Kluger, P.J.; ChemBioChem. 2021 https://doi.org/10.1002/cbic.202100266

Adipose stem cell-derived Extracellular Matrix represents a promising Biomaterial by inducing spontaneous formation of Prevascular-like Structures by MvECs. **Nellinger, S.**, Schmidt, I., Heine, S., Volz, A.-C., Kluger, P.J. ; Biotechnology and Bioengineering. 2020
https://doi.org/10.1002/bit.27481