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University training and degree

- 2016-2018 Master of Science, Human and Molecular Biology,
Saarland University
- 2011-2015 Bachelor of Science, Molecular and Technical Medicine,
Hochschule Furtwangen University

Advanced academic qualifications

Doctorate: Ph.D. will be completed at the end of 2023

Postgraduate professional career

- since 2019 Ph.D student, Institute of Biophysics, Prof. Dr. M. Hoth, Saarland University
- 2018-2019 Scientist, EUROIMMUN Medizinische Labordiagnostika AG, Lübeck

Selected publications

1. **Zöphel, D.**, Kaschek, L., Steiner, R., Janku, S., Hsin-Fang, C., & Lis, A. (2023). Heterozygous OT-I mice reveal that antigen-specific CD8⁺ T cells shift from apoptotic to necrotic killers in the elderly. *Aging Cell*, e13824. <https://doi.org/10.1111/accel.13824>
2. Lis, A., & **Zöphel, D.** (2023). Elderly CD8⁺ T cells in the focus for immunotherapeutic approaches. *Aging*, 15(10), 3899–3900. <https://doi.org/10.18632/aging.204747>
3. **Zöphel, D.**, Angenendt, A., Kaschek, L., Ravichandran, K., Hof, C., Janku, S., Hoth, M., & Lis, A. (2022). Faster cytotoxicity with age: Increased perforin and granzyme levels in cytotoxic CD8⁺ T cells boost cancer cell elimination. *Aging Cell*, e13668. <https://doi.org/10.1111/accel.13668>.
4. Zhu, J., Yang, W., Zhou, X., **Zöphel, D.**, Soriano-Baguet, L., Dolgener, D., Carlein, C., Hof, C., Zhao, R., Ye, S., Schwarz, E. C., Brenner, D., Prates Roma, L., & Qu, B. (2021). High Glucose Enhances Cytotoxic T Lymphocyte-Mediated Cytotoxicity. *Frontiers in Immunology*, 12. <https://doi.org/10.3389/fimmu.2021.689337>
5. **Zöphel, D.**, Hof, C., & Lis, A. (2020). Altered Ca²⁺ Homeostasis in Immune Cells during Aging: Role of Ion Channels. *International Journal of Molecular Sciences*, 22(1). <https://doi.org/10.3390/ijms22010110>

Past and present funding (five years)

SFB 894 Mini Proposal

2020-2021