

BAY, CINDY, M.SC.

GENERAL INFORMATION



PhD Student,
Department of Clinical Pharmacology and Pharmacoepidemiology
Heidelberg University Hospital

C01

ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
Since 2022	PhD Student, Heidelberg University Hospital
2018-2022	M.Sc. in Molecular Biotechnology, Heidelberg University
2015-2018	B.Sc. in Molecular Biotechnology, Heidelberg University

SELECTED PUBLICATIONS

1. Bajraktari-Sylejmani G, [Bay C](#), Gebauer L, Burhenne J, Weiss J, Sauter M. A Highly Sensitive UPLC-MS/MS Method for the Quantification of the Organic Cation Transporters' Mediated Metformin Uptake and Its Inhibition in Cells. **Molecules**. 2024 Oct 31;29(21):5162. doi: 10.3390/molecules29215162. PMID: 39519803; PMCID: PMC11547985.
2. [Bay C](#), Bajraktari-Sylejmani G, Haefeli WE, Burhenne J, Weiss J, Sauter M. Correction: Bay et al. Functional Characterization of the Solute Carrier LAT-1 (SLC7A5/SLC3A2) in Human Brain Capillary Endothelial Cells with Rapid UPLC-MS/MS Quantification of Intracellular Isotopically Labelled L-Leucine. *Int. J. Mol. Sci.* 2022, 23, 3637. **Int J Mol Sci.** 2023 Mar 6;24(5):5029. doi: 10.3390/ijms24055029. Erratum for: *Int J Mol Sci.* 2022 Mar 26;23(7):3637. doi: 10.3390/ijms23073637. PMID: 36902494; PMCID: PMC10003470.
3. [Bay C](#), Bajraktari-Sylejmani G, Haefeli WE, Burhenne J, Weiss J, Sauter M. Functional Characterization of the Solute Carrier LAT-1 (SLC7A5/SLC2A3) in Human Brain Capillary Endothelial Cells with Rapid UPLC-MS/MS Quantification of Intracellular Isotopically Labelled L-Leucine. *Int J Mol Sci.* 2022 Mar 26;23(7):3637. doi: 10.3390/ijms23073637. Erratum in: **Int J Mol Sci.** 2023 Mar 06;24(5):5029. doi: 10.3390/ijms24055029. PMID: 35408997; PMCID: PMC8998838.
4. [Bay C](#), Uhl P, Meid AD, Burhenne J, Haefeli WE, Sauter M. Quantification of Arginine-Rich Cyclic Cell-Penetrating Peptide-Lipid Conjugates Using a Surrogate Peptide Extracted by Phospholipase D Digestion and Trifluoroacetic Acid-Based UPLC-MS/MS Analysis. **Anal Chem.** 2025 Aug 12;97(31):16733-16741. doi: 10.1021/acs.analchem.5c00628. Epub 2025 Jul 28. PMID: 40721361.
5. Rose F, Köberle B, Honnen S, [Bay C](#), Burhenne J, Weiss J, Haefeli WE, Theile D. RNA is a pro-apoptotic target of cisplatin in cancer cell lines and *C. elegans*. **Biomed Pharmacother.** 2024 Apr;173:116450. doi: 10.1016/j.biopha.2024.116450. Epub 2024 Mar 18. PMID: 38503239.
6. Sauter M, Haag J, [Bay C](#), Leuschner F, Haefeli WE, Kuhn TC, Burhenne J. Bioanalysis of the Ex Vivo Labile PACE4 Inhibitory Peptide Ac-[d-Leu]LLLRVK-Amba in Whole Blood Using Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry Quantification. **Pharmaceutics.** 2023 Dec 8;15(12):2745. doi: 10.3390/pharmaceutics15122745. PMID: 38140086; PMCID: PMC10747822.
7. Theile D, Wagner L, [Bay C](#), Haefeli WE, Weiss J. Time-Resolved Effect of Interferon-Alpha 2a on Activities of Nuclear Factor Kappa B, Pregnane X Receptor and on Drug Disposition Genes. *Pharmaceutics.* 2021 May 28;13(6):808. doi: 10.3390/pharmaceutics13060808. PMID: 34071580; PMCID: PMC8229072.
8. Zhu K, Wang Y, Sarlus H, Geng K, Nutma E, Sun J, Kung SY, [Bay C](#), Han J, Min JH, Benito-Cuesta I, Lund H, Amor S, Wang J, Zhang XM, Kutter C, Guerreiro-Cacais AO, Högberg B, Harris RA. Myeloid cell-specific topoisomerase 1 inhibition using DNA origami mitigates neuroinflammation. **EMBO Rep.** 2022 Jul 5;23(7):e54499. doi: 10.15252/embr.202154499. Epub 2022 May 20. PMID: 35593064; PMCID: PMC9253741.