

Curriculum Vitae

Lisa Franziska Buchauer Professor, Dr. rer. nat.
d.o.b. December 14, 1990, in Offenbach am Main, Germany

University Education

2018 Doctorate Computational Biology (summa cum laude), Heidelberg University/DKFZ
2014 Master of Science in Physics, TU Darmstadt / ESPCI Paris
2012 Bachelor of Science in Physics, Heidelberg University

Scientific Career

Since 2026 Guest group leader at the Max Delbrück Center for Molecular Medicine, Berlin
Since 2023 W2 Professor of Systems Biology of Infectious Diseases, Charité – Universitätsmedizin Berlin
Since 2023 Associated PI of the German Center for Lung Research (DZL)
2022–2023 Team Lead Single-Cell Data Inference, immunai Inc., Tel Aviv, Israel
2021–2022 Senior Computational Biologist, immunai Inc., Tel Aviv, Israel
2020–2021 Postdoctoral Researcher (EMBO Long-Term Fellow), Weizmann Institute of Science, Israel
2018–2019 Postdoctoral Researcher (CancerTRAX Fellow), Weizmann Institute / DKFZ Heidelberg
2014–2018 PhD Studies, Heidelberg University / DKFZ (Advisors: T. Höfer, H. Wardemann)

Awards and Honors

2026 Awarded the Hochschulpreis of Wissenschaft im Dialog for an outstanding science communication project
2024–2029 Elected Member of the Junge Akademie (Young Academy of Leopoldina and BBAW)
2020-2021 EMBO Long-Term Fellowship
2018-2019 CancerTRAX Postdoctoral Fellow of the German-Israeli Helmholtz International Research School
2009-2014 Fellow of the German National Academic Foundation (Studienstiftung des deutschen Volkes)

Citation Record

Total citations: 738; h-index: 9; h-index since 2021: 8 (Google Scholar 8th of April 2026)

Top-10 selected Publications

Scheck R, Melzer M, Gladkov G, Leyre L, Ward AR, Reeves DB, Perkins N, Huynh TT, McMahon DK, Bosch RJ, Macatangay BJ, Cyktor JC, Eron JJ, Mellors JW, Gandhi RT, **Buchauer L**, Jones RB, Gaebler C (2026) Q4ddPCR: a flexible, 4-target assay for high-resolution HIV reservoir profiling. **Nature Communications**. DOI: 10.1038/s41467-026-69413-0.

Buchauer L, Itzkovitz S (2024) cellanneal: A user-friendly deconvolution software for transcriptomics data. **Journal of Open Source Software**. DOI: 10.21105/joss.05610.

Afriat A, Zuzarte-Luis V, Bahar Halpern K, **Buchauer L**, Marques S, Chora AF, Lahree A, Amit I, Mota MM, Itzkovitz S (2022) A spatiotemporally resolved single-cell atlas of the Plasmodium liver stage. **Nature** 611:563-569. DOI: 10.1038/s41586-022-05406-5.

Harnik Y*, **Buchauer L***, Ben-Moshe S, Averbukh I, Levin Y, Savidor A, Eilam R, Moor AE, Itzkovitz S (2021) Spatial discordances between mRNAs and proteins in the intestinal epithelium. **Nat Metab** 3:1680-1693. DOI: 10.1038/s42255-021-00504-6.

Massalha H, Bahar Halpern K, Abu-Gazala S, Jana T, Massasa EE, Moor AE, **Buchauer L**, Rozenberg M, Pikarsky E, Amit I, Zamir G, Itzkovitz S (2020) A single cell atlas of the human liver tumor microenvironment. **Mol Syst Biol** 16:e9682. DOI: 10.15252/msb.20209682.

Buchauer L, Wardemann H (2019) Calculating germinal centre reactions. **Current Opinion in Systems Biology** 18:1-8. DOI: 10.1016/j.coisb.2019.10.004.

Murugan R*, **Buchauer L***, Triller G, Kreschel C, Costa G, Pidelaserra Marti G, Imkeller K, Busse CE, Chakravarty S, Sim BKL, Hoffman SL, Levashina EA, Kreamsner PG, Mordmüller B, Höfer T, Wardemann H (2018) Clonal selection drives protective memory B cell responses in controlled human malaria infection. **Sci Immunol**. DOI: 10.1126/sciimmunol.aap8029.

Micke P, Kuhn S, **Buchauer L**, Harries JR, Bücking TM, Blaum K, Cieluch A, Egl A, Hollain D, Krämer S, Pfeifer T, Schmidt PO, Schüssler RX, Schweiger C, Stöhlker T, Sturm S, Wolf RN, Bernitt S, Crespo López-Urrutia JR (2018) The Heidelberg compact electron beam ion traps. **Rev Sci Instrum** 89:063109. DOI: 10.1063/1.5026961.

Giraldo-Gallo P, Walmsley P, Sangiorgio B, Riggs SC, McDonald RD, **Buchauer L**, Fauqué B, Liu C, Spaldin NA, Kaminski A, Behnia K, Fisher IR (2018) Evidence of Incoherent Carriers Associated with Resonant Impurity Levels and Their Influence on Superconductivity in the Anomalous Superconductor $\text{Pb}_{1-x}\text{Tl}_x\text{Te}$. **Phys Rev Lett** 121:207001. DOI: 10.1103/PhysRevLett.121.207001.

Lin X, Rischau CW, **Buchauer L**, Jaoui A, Fauqué B, Behnia K (2017) Metallicity without quasi-particles in room-temperature strontium titanate. **npj Quantum Materials**. DOI: 10.1038/s41535-017-0044-5.

* shared first author