

Leon Lin

Heidelberg, Germany & Vancouver, BC, Canada • [linkedin.com/in/leon-lin](https://www.linkedin.com/in/leon-lin)

EDUCATION

Master of Science, Molecular Biosciences, Major Cancer Biology

Heidelberg University, Heidelberg, BW, Germany 10/2025–Present

- Practical Courses: Cancer Metabolism, Translational Proteomics and Epigenetics, Organoid Cancer Models, Biomedical Imaging, Radiation Oncology.

Bachelor of Science, Honours in Biotechnology (With Distinction, Co-operative Education Program)

The University of British Columbia, Vancouver, B.C., Canada 09/2018–05/2023

- Selected Courses: Genetics and Cell Biology of Cancer, Advanced Immunology, Bioinformatics, Enzymology, Proteins: Structure and Function, Industrial Biotechnology, Bacterial Pathogenesis.

Diploma of Technology, Biotechnology (With Distinction)

British Columbia Institute of Technology, Burnaby, B.C., Canada 09/2019–04/2021

- Hands-on Experience: Gained extensive laboratory skills through a curriculum focused on molecular biology, cell biology, biochemistry, microbiology, analytical chemistry, organic chemistry, regulatory affairs, and plant biology.

WORK EXPERIENCE

Laboratory Associate

Wax-it Histology Services, Vancouver, B.C., Canada 10/2024–08/2025

- Assisted with histology projects by performing laboratory tasks including routine histology work in a GLP-accredited facility focused on histopathology, immunohistochemistry, immunofluorescence, and digital pathology.
- Handled operational tasks including laboratory and office maintenance, hazardous waste disposal, and chemical and supplies management, while adhering to internal quality assurance policies to ensure GLP compliance.
- Supported marketing by managing social media campaigns, creating promotional materials, attending conferences.
- Performed administrative tasks including shipping and receiving, project documentation, and customer service.

Laboratory Assistant

NovoBind Livestock Therapeutics, Vancouver, B.C., Canada 05/2022–08/2022

- Contributed to the production of proprietary nanobodies for in vitro and in vivo research.
- Produced up to five batches of recombinant proteins weekly in *E. coli*, independently handling the entire process.
- Streamlined laboratory operations by refining protocols, creating training material, preparing reagents and media, cleaning and sterilizing labware, safely disposing of waste, and managing consumables and supplies.

Laboratory Assistant

SignalChem Biotech, Richmond, B.C., Canada 05/2021–12/2021

- Meticulously purified 100+ recombinant proteins expressed in *E. coli*, CHO cells, and tobacco plants using affinity chromatography, effectively coordinating with both upstream and downstream teams.
- Analyzed protein samples using SDS-PAGE and Western Blot to ensure purification success.
- Contributed to a published study on therapeutic SARS-CoV-2 decoys by purifying soluble ACE2 variants expressed in *Nicotiana benthamiana*, enabling the in vitro evaluation of inhibitory activity against spike RBD.
- Assisted with inventory and logistics, sorting, picking, packing, and preparing shipments to fulfil customer orders.

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Co-Founder

TurtleKeeps, Richmond, B.C., Canada

04/2021–Present

- Co-founded and led an e-commerce company specializing in mechanical keyboard supplies, overseeing all business aspects and personally handling operations, logistics, inventory, finances, accounting, marketing, customer service, and management.

RESEARCH EXPERIENCE

Investigating the chitin-binding capability of recombinant ChiC expressed in *E. coli*

Course-based Undergraduate Research Project (Honours Thesis)

Department of Microbiology and Immunology, The University of British Columbia

09/2022–12/2022

- Led a team of five peers in a course-based research project involving recombinant protein expression, purification, and assaying, taking on a pivotal role in experimental design, laboratory work, data analysis, and manuscript writing, resulting in publication in the peer-reviewed UBC *Undergraduate Journal of Experimental Microbiology and Immunology*.

PUBLICATIONS

- **Lin, L.**, Agawin, P. R., Tong, J., Rai, S., & Shoaib, G. (2023). Investigating the chitin-binding capability of recombinant ChiC expressed in *E. coli*. *UJEMI+*, 9. <https://doi.org/10.14288/ujemi.v9i>
- Köch, K., Schopper, T., Durmaz, V., Parigger, L., Singh, A., Krassnigg, A., Cesugli, M., Wu, W., Yang, X., Zhang, Y., Wang, W. W.-S., Selluski, C., Zhao, T., Zhang, X., Bai, C., **Lin, L.**, Hu, Y., Xie, Z., ... Gruber, C. C. (2023). Optimizing variant-specific therapeutic SARS-CoV-2 decoys using deep-learning-guided molecular dynamics simulations. *Scientific Reports*, 13, Article 774. <https://doi.org/10.1038/s41598-023-27636-x>

SKILLS

- **Protein Biochemistry:** Recombinant protein expression (bacteria, yeast, mammalian cells, plants); protein purification (FPLC, affinity, size exclusion, ion-exchange chromatography); protein analysis (SDS-PAGE, Western blot, ELISA, Bradford assay).
- **Histology:** Tissue grossing and processing; paraffin and plastic embedding and sectioning, staining, imaging.
- **Cell Biology:** Mammalian cell culture (maintenance and transfection); proliferation and differentiation assays.
- **Molecular Biology:** DNA/RNA isolation; PCR, qRT-PCR; molecular cloning; restriction digest; gel electrophoresis; transformation.
- **Microbiology:** Bacterial and yeast cultivation; aseptic technique; fed-batch fermentation; microbial assays.
- **Analytical Chemistry:** Chromatography and spectroscopy (HPLC, LC-MS/MS, GC-MS, UV-Vis, and FTIR).
- **Bioinformatics:** Sequence and gene expression analysis (R, Bioconductor, Python).
- **Laboratory and Regulatory:** Chemical and supply management; hazardous waste handling; adherence to QA procedures and OECD GLP principles; knowledge of FDA GLP, GMP, GCP regulations.
- **Software:** Microsoft Office Suite; GraphPad Prism; SnapGene; Geneious; Benchling; ImageJ.
- **Languages:** English (fluent); Mandarin Chinese (conversational).

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AWARDS

Dean's Honour List

The University of British Columbia, Vancouver, B.C., Canada 2018-19, 2021-22

BC Achievement Scholarship (High School)

Ministry of Education, Province of British Columbia, Canada 08/2018

VOLUNTEER EXPERIENCE

Undergraduate Planning Committee Member

2023 MBIM Undergraduate Research Symposium, The University of British Columbia 02/2023–04/2023

Volunteer

nwHacks Hackathon, nwPlus, The University of British Columbia 01/2023

VP Finance

UBC-BCIT Biotechnology Club, BCIT, Burnaby, B.C., Canada 09/2019–05/2021

- Managed the finances for a student club of 50+ members, overseeing annual and event budgeting, membership dues collection, expense tracking, and reimbursement processes.
- Collaborated with other club executives to allocate funds for events, ensuring transparency and accountability.
- Co-organized the annual Biotechnology Networking Nights in 2020 and 2021, helping bring together 15+ local companies and 100+ students, demonstrating strong event management and stakeholder engagement skills.

Student Volunteer

Congress of the Humanities and Social Sciences, The University of British Columbia 06/2019

Student Volunteer

UBC Science Rendezvous Festival, The University of British Columbia 05/2019

Teacher Assistant

Richmond Continuing Education, School District No. 38, Richmond, B.C., Canada 01/2017–01/2018