

# Leon Lin

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## EDUCATION

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### Biotechnology, UBC-BCIT Joint Program

- **University of British Columbia—Honours Bachelor of Science** 2018–2023
  - With Distinction and Co-operative Education Program
  - Deepened academic knowledge with a focus on bioinformatics, protein biochemistry, immunology, cancer biology, bacteriology, and industrial biotechnology.
- **British Columbia Institute of Technology—Diploma of Technology** 2019–2021
  - Gained extensive hands-on experience through a laboratory-focused curriculum, encompassing cell biology, molecular biology, microbiology, biochemistry, analytical chemistry, and plant biology.

## SKILLS

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**Protein Biochemistry:** recombinant protein expression (bacteria, yeast), purification (FPLC, affinity, size exclusion, ion-exchange chromatography), analysis (SDS-PAGE, Western blot, ELISA, Bradford assay)

**Cell Biology:** maintenance and transfection of mammalian cell lines, proliferation and differentiation assays, fluorescence microscopy

**Molecular Biology:** DNA/RNA isolation, PCR/qRT-PCR, molecular cloning, restriction digest, gel electrophoresis, transformation

**Analytical Chemistry:** chromatography (HPLC, LC-MS/MS, GC-MS), spectroscopy (UV-Vis, IR, FTIR)

**Bioinformatics:** sequence and gene expression analysis (R, Bioconductor, BLAST, Python)

**Other Skills:** GraphPad Prism, SnapGene, fed-batch fermentation, regulatory affairs (ISO 9000), fluent in Mandarin

## EXPERIENCE

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**Laboratory Assistant at NovoBind Livestock Therapeutics**, Vancouver, B.C. May–Aug. 2022

- Contributed to the production of proprietary nanobodies for *in vitro* and *in vivo* research, working collaboratively with team members.
- Expressed 3-5 recombinant proteins weekly in *E. coli*, independently handling the entire process from transformation to harvesting.
- Enhanced lab productivity by refining protocols, creating training videos, preparing reagents and media, cleaning and sterilizing labware, safely disposing of waste, and managing consumables.

**Laboratory Assistant at SignalChem Biotech**, Richmond, B.C. May–Dec. 2021

- 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.
- Optimized the purification of Amb a 1 allergen expressed in *Nicotiana benthamiana*, boosting both purity and yield.

**VP Finance for the UBC-BCIT Biotechnology Club**, Burnaby, B.C. Sept. 2019–May 2021

- Managed the finances for a club of 40+ members, overseeing budgeting, dues collection, and expense reimbursement.
- Collaborated with other club executives to coordinate the annual Biotechnology Networking Nights (2020 and 2021), bringing together 10-15 local companies and 100+ students.

**Co-Founder of TurtleKeebs**, Richmond, B.C. Apr. 2021–Present

- Co-founded an e-commerce company selling mechanical keyboard supplies, handling operations, logistics, finances, and marketing.

## PUBLICATIONS

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

UJEMI+ · Sept. 2023

- Led a team of five 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. The collaborative work was published in the peer-reviewed UBC Undergraduate Journal of Experimental Microbiology and Immunology.

### Optimizing variant-specific therapeutic SARS-CoV-2 decoys using deep-learning-guided molecular dynamics simulations

Scientific Reports · Jan. 2023

- Contributed to a study on therapeutic SARS-CoV-2 decoys at SignalChem Biotech by purifying soluble ACE2 variants expressed in *Nicotiana benthamiana*, enabling the *in vitro* evaluation of inhibitory activity against spike RBD.