

Felipe Del Valle Batalla

MSc. Ph.D. (c) in cell and molecular Biology

Laboratory of Immune Cell Biology
Pontifical Catholic University of Chile
Portugal 49, 4th floor
Santiago, Chile
fadelvalle@uc.cl
github.com/fadelvalle
orcid.org/0000-0001-6113-9549

About me

I am passionate about questions in the broader sense. Besides finding answers to those questions, I'm always looking for new challenges related to Cell Biology and life in general. I enjoy deep conversations about science and experiments; how to effectively communicate and share results so anyone can understand scientific duty. Constantly looking to expand my horizons on the knowledge in the B cell field and, why not, other cell models. I am genuinely motivated to learn from people and their experiences.

Professional Competencies and Abilities

Data collection and analysis, Project Management, Science communication, Research design, Image analysis for microscopy.

Technical Expertise

Cell and Molecular Biology

Routinary Cell culture and cellular assays with a special focus on B cells

Microscopy

Widefield, Spinning disk, confocal, AiryScan, TIRFM, Live imaging, IF protocols with different conditions, fabrication of different stiffness substrates with PAA gels.

Biochemistry

Western Blot, ELISA, Cell Transfection, MIDI-Prepping, Basic bacterial work.

Programming and Image analysis

MS Office suite, Notion, Python entry-level experience. R language for data analysis (tidyverse, ggplot, statistical and modeling libraries), experience with machine and deep learning tools for open-source software (ImageJ-Fiji, Napari, Colab Notebooks), extensive ImageJ-Fiji experience in macros scripting and image processing with dedicated features.

Education

PhD Candidate (2019 - present)

Pontificia universidad católica de Chile

MSc in cell and molecular biology (2018-2019)

Pontificia universidad católica de Chile

BSc - Biologist (2013-2018)

Pontificia Universidad católica de Chile

Research Experience

PhD - Cell and molecular biology / MSc - Cell and molecular biology

Pontificia Universidad Católica de Chile, Chile (January 2019 - present)

Supervisor: Maria-Isabel Yuseff

PhD project: " B - Cell mechanosensing: role in lysosome position and dynamics during the immune synapse "

On my MSc and PhD project I have been able to set up new methods and assays in Dr. Yuseff's lab such as the fabrication of different substrates with tunable mechanical properties to understand the role of . I have also contributed significantly to the implementation and troubleshooting of several methods for advanced image analysis. Together with Dr. Yuseff, we have secured a grant for covering 4 years of funding based mainly on my PhD project (ANID funding #1221128)

BSc in Biology with speciality on Bioprocesses

Pontificia Universidad Católica de Chile

BSc thesis and degree seminar supervisors: María-Isabel Yuseff and Claudia Sáez

Ranked 2 out of 16 graduates of the promotion

Awards and Funding

Funding

Ph.D. studies national award grant - ANID (ex CONICYT) Chile

Awarded: January 2019

Travel grant and accommodation for a short internship to Finland - Pontifical Catholic University of Chile

Funding for research visit to Pieta Mattila's Lab at the University Of Turku, Finland

Awards

Best oral presentation - XXXIII SBCCH, 2019

Awarded for best oral communication among Ph.D. students

Committees and Mentees

Part of the Pontificia Universidad Católica's faculty of biological sciences PhD selection committee (2019, 2021)

Publications

Please refer to [ORCID profile](#).