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Computational Biophysics, Bioinformatics and Drug Design Lab
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EDUCATION

- 2016: Ph.D. in Applied Sciences. Universidad de Talca, Chile. Advisor: Dr. Wendy González.
- 2012: B.Sc. In Pharmaceutical Chemistry. Universidad Nacional de Colombia, Colombia.
- 2009: B.Sc. in Chemistry. Universidad Distrital Francisco José de Caldas, Colombia.

POSTDOCTORAL TRAINING

- 2017 – 2018: Postdoctoral fellow at Dr. José Argüello Laboratory. Department of Chemistry and Biochemistry, Worcester Polytechnic Institute, USA.
- 2016 – 2017: Postdoctoral fellow at Dr. Wendy González Laboratory. Centro de Bioinformática y Simulación Molecular, Universidad de Talca, Chile.

APPOINTMENTS

- 2019 – current: Assistant Professor, Facultad de Ciencias de la Salud. Instituto de Ciencias Biomédicas, Universidad Autónoma de Chile, Santiago, Chile.
- 2018: Visiting Professor, Faculty of Sciences, Universidad Antonio Nariño. Bogotá, Colombia.
- 2017: Visiting Professor, Department of Pharmacy, Faculty of Sciences, Universidad Nacional de Colombia.

SELECTED REFERRED JOURNAL ARTICLES

5. **Ramírez, D.**, Bedoya, M., Kiper, ., Susanne, R., Morales-Nvarro, S., Hernández, E., Sepúlveda, F., Decher, N., González, W. Structure/Activity Analysis of TASK-3 Channel Antagonists Based on a 5,6,7,8 tetrahydropyrido[4,3-d]pyrimidine. *International Journal of Molecular Sciences*. (2019) Accepted.
4. Rinné, S., Kiper, A., Vowinkel, K., **Ramírez, D.**, Schewe, M., Bedoya, M., Aser, D., Gensler, I., Netter, M., Stansfeld, P., Baukowitz, T., Gonzalez, W., and Decher, N. The molecular basis for an allosteric inhibition of K⁺-flux gating in K2P channels. *eLife* (2019) 8:e39476.
3. **Ramírez, D.**, Caballero, J. Is it reliable to take the molecular docking top first scoring position as the best solution without considering available structural data? *Molecules* (2018) 23, 2094
2. **Ramírez, D.**, Arévalo, B., Martínez, G., Rinné, S., Sepúlveda, F., Decher, N. & González, W. Side fenestration provide and 'anchor' for stable binding of A1899 to the pore of TASK-1 potassium channel. *Molecular Pharmaceutics* (2017) 14(7):2197–2208.
1. Jørgensen, M., Xu, D., Crocoll, C., **Ramírez, D.**, Motawia, M., Olsen, C., Nour-Eldin, H., & Halkier, B. Origin and evolution of a transporter substrate specificity. *eLife* (2017) 6:e19466.

UNDERGRADUATE THESIS ADVISOR

- 2018: Laura Sánchez. Universidad del Quindío. Study and identification of novel ROP18 modulators with potential therapeutic activity against *Toxoplasma gondii*.
- 2017: Carlos Peña. Universidad de Talca. Structural analysis of the blocker A1899 pathway to the binding site in TASK1 potassium channels.

GRANTS

- 2018: Fondecyt de iniciación No. 11180604: "Structural insights into the substrate specificity and transport mechanisms in the Nitrate/Peptide transporter (NPF) family". Principal Investigator. Funding: \$ 145.000 USD.
- 2017: Convocatoria para proyectos de ciencia, tecnología e innovación en salud COLCIENCIAS – Pontificia Universidad Javeriana, Colombia. "Análisis metabólico de los efectos neuroprotectores de la tibolona en un modelo astrocítico humano de lipotoxicidad con ácido palmítico" International Advisor. Funding: \$ 95.000 USD
- 2016: International Mobility Scholarship: Talca University, Chile – Copenhagen University, Denmark. Principal Investigator. Funding: \$ 13.000 USD.

AWARDS AND HONORS

- 2016: Research internship grant: Universidad de Talca, Chile – University of Copenhagen, Denmark. Funds: 13000 USD.
- 2015: First price poster – 1st International Conference in Bioinformatics, Simulation and Modeling (iCBMS). Universidad de Talca, Talca, Chile.
- 2013: Scholarship for Ph.D. studies. Universidad de Talca, Chile.
- 2009: BSc. Thesis distinguished with meritorious mention. Universidad Distrital Francisco José de Caldas. Colombia.