



Dr. Carlos F. Lagos is a Pharmaceutical Chemist (2008, Pontificia Universidad Católica de Chile) and holds a Ph.D. in Biotechnology (2016, Universidad Nacional Andrés Bello, Chile). His doctoral dissertation, awarded *Summa Cum Laude*, focused on the computer-aided design, synthesis, and biological evaluation of novel Calpain-2 inhibitors.

Dr. Lagos is currently Associate Professor at the School of Chemistry and Pharmacy, Faculty of Sciences, Universidad San Sebastián (USS), where he leads the *Chemical Biology & Drug Discovery Laboratory (CBD2)*. He is also Associate Researcher at the Fundación Ciencia & Vida Excellence Center (FB210008). Since 2018, he has been Principal Investigator and Co-Investigator in multiple competitive research projects funded by FONDECYT and FONDEF, addressing therapeutic approaches for metabolic disorders, neurodegenerative diseases, and inflammatory conditions.

His research integrates structural bioinformatics, medicinal chemistry, and molecular and cellular biology to identify and optimize bioactive molecules. Current interests include targeting nuclear receptors as therapeutic strategies for obesity and metabolic syndrome, developing multi-target serotonergic ligands for neurodevelopmental disorders, and designing selective connexin hemichannel modulators with potential applications in epilepsy and inflammatory diseases.

Dr. Lagos has published over 65 peer-reviewed articles, two book chapters, and is co-inventor of six granted patents in the United States, South Korea, Australia, and Chile, along with thirteen international patent applications. His scientific contributions have been recognized with several awards, including the UC Technology Transfer Award (2017), multiple UC Patent Awards (2013–2015), and the Outstanding Abstract Award from the Endocrine Society (2011 and 2012).

He is deeply committed to graduate and undergraduate education, serving as faculty member in doctoral and master's programs in Cell Biology and Biomedicine and Computational Biology at Universidad San Sebastián and Universidad Andrés Bello. He has supervised numerous undergraduate theses and graduate dissertations in drug discovery and translational pharmacology.

Dr. Lagos is an active member of the Chilean Society of Pharmacology and the Chilean Society of Biochemistry and Molecular Biology, and has previously been a member of international organizations such as the American Chemical Society, The Endocrine Society, and the International Society for Computational Biology (ISCB).

Links:

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