



**INSTITUTO DE INGENIERÍA
BIOLÓGICA Y MÉDICA**
PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

IIBM extraordinary - Seminar

**“Computational approaches to study protein-protein interactions
Regulating the expresión of membrane proteins”**



Ariela Vergara-Jaque, PhD

Center for Bioinformatics, Simulation and Modeling, Faculty of Engineering,
Universidad de Talca. Talca, Chile

Millennium Nucleus of Ion Channel-Associated Diseases (MiNICAD), Santiago, Chile

Nov 25th - 14:00 Hrs.

**In-person Seminar – Auditorio Edificio San Agustín
Campus San Joaquín**



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Computational approaches to study protein-protein interactions Regulating the expresión of membrane proteins

Overview:

Ariela's talk centers on the recognition of binding partners for the TRP channels, including the protein 14-3-3gamma which is key for the surface expression of these channels. These discoveries show its strong potentials of these protein-protein interactions as a pharmacological target to regulate TRP function.

Host: Chaos, Panic and dis(order) in Protein Evolution Seminar & Workshop



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IIBM extraordinary - Seminar

**“Characterizing disordered domains in a human -and unique-
transcription factor model at single molecule level”**



Exequiel Medina, PhD

Department of Biology, Universidad de Chile, Santiago Chile

Nov 25th - 15:00 Hrs.

**In-person Seminar – Auditorio Edificio San Agustín
Campus San Joaquín**



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Characterizing disordered domains in a human -and unique- transcription factor model at single molecule level

Overview:

This talk will be focused on the dynamics of an essential transcription factor in human development, the FoxP family. Through the use of fluorophores has been determined the oligomerization mechanism of this family, including the kinetics of these processes through single-molecule studies such as smFRET. Solving this puzzle has helped understand how the dynamics of this protein with intrinsically-disordered regions affects the DNA recognition of this transcription factor.

Host: Chaos, Panic and dis(order) in Protein Evolution Seminar & Workshop