

Carlos Alejandro Peña Varas

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RESEARCH ASSISTANT

Computational Biophysics, Bioinformatics and Drug Design Lab
Facultad de Ciencias de la Salud - Instituto de Ciencias Biomédicas
Universidad Autónoma de Chile,
Llano Subercaseaux 2801 – piso 6, San Miguel, Santiago - Chile.

FORMATION:

2017: B. Bioinformatics engineer. Universidad de Talca, Chile. Advisor: Dr, Wendy González.

SKILLS AND ABILITIES:

- **ENGLISH:** Advanced
- **OPERATING SYSTEMS:** Windows, Linux.
- **PROGRAMMING LANGUAGES:** C, Java, Tcl, Python, Perl, Bioperl, HTML.
- **BIOINFORMATION TOOLS:** VMD, AMBER, NAMD, Schrodinger-Maestro, Gaussian, Autodock Vina.
- **MOLECULAR BIOLOGY:** Genomic DNA extraction, PCR, electrophoresis.
- **DATABASES:** MySQL

EXPERIENCE:

PRACTICING| INSTITUTO DE CIENCIAS BIOLÓGICAS, UNIVERSIDAD DE TALCA | ENERO - MARZO 2014. Analysis of genetic diversity through experimental biotechnological techniques such as extraction of genomic DNA, use of molecular markers, electrophoresis and PCR.

RESEARCH ASSISTANT | CENTRO DE BIOINFORMÁTICA Y SIMULACIÓN MOLECULAR (CBSM), UNIVERSIDAD DE TALCA | MAYO 2018 – NOVEMBER 2018. Construction and analysis of molecular models of potassium channels and their interactions with new drugs.

CONGRESSES:

IDENTIFICATION SOFTWARE OF POCKETS OF PROTEIN STRUCTURES IMPLEMENTED IN VMD | CARLOS PEÑA, JOSÉ GAETE, FELIPE VALENZUELA, JOSÉ GÓMEZ.

- Poster, Workshop of bioinformatics, jornadas chilenas de la computación, 2011, Curicó, Chile.

II-SULFUR INTERACTIONS GUIDE A1899 TO THE BINDING SITE IN TASK-1 POTASSIUM CHANNELS | CARLOS PEÑA, DAVID RAMÍREZ, WENDY GONZÁLEZ.

- Spech, Third Protein Biophysics at the End of the World. April 2018, Santiago, Chile.
- Poster, XLI Reunión Anual Sociedad de Bioquímica y Biología Molecular de Chile. september 2018, Iquique, Chile.