

Evelin González Feliú

Curriculum Vitae

Personal information

Address 28 oriente 6 sur 511, Talca, Región del Maule
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Education

2009–2015 **Bioinformatics Engineering**, *University of Talca*, Approved with distinction.

Experience

- 2021– Present **Research Assistant. Bioinformatics**, *Functional Cancer Genomics Laboratory*, University of Chile, Faculty of Medicine,
Activities: Bioinformatics in charge of the Pancancer project, "Discovery of New Genomic Alterations in Cancer Patients from South America".
○ Direction: Dr. Ricardo Armisen and Dra Katherine Marcelain
- 2019–2020 **Research Assistant. Bioinformatics**, *Cancer Genomics Laboratory*, University of Chile, Faculty of Medicine,
Activities: In charge of development of TumorSec tool. A bioinformatic package for the analysis and search of somatic variants in cancer patients. In addition to NGS (targeted sequencing) data analysis, quality control and variant calling.
○ Direction: Dr. Katherine Marcelain, and Dr. Ricardo Verdugo
- 2018–2019 **Bioinformatics, Algorithm Development Team**, *uBiome*, Santiago,
Activities: NGS data analysis (microbiome and metagenomics), development of workflows and laboratory support.
○ Internship for 2 weeks at uBiome, San Francisco, USA. Metagenomics data analysis.
- 2016–2018 **Research Assistant, Bioinformatics**, *Functional Genomics and Bioinformatics Laboratory*, University of Chile,
Activities: Bioinformatics support, transcriptome assembly, RNA-seq, annotation and reconstruction of metabolic pathways.
○ Direction: Dr. Herman Silva

- 2014–2015 **Undergraduate thesis project**, *Laboratory of Biochemistry and Molecular Biology*, University of Chile,
Title: "Evolutionary history of pyridoxal kinase activity in the hydroxymethyl group pyrimidine kinases of bacteria".
- Activities: Phylogenetic reconstruction, protein purification, enzyme kinetics, site-directed mutation, homology model and docking.
 - Direction: Dra. Victoria Guixé and Dr. Víctor H. Castro

Publications

- 2021 **Validation of a NGS panel, with automated analysis, designed for detection of medically actionable tumor biomarkers for Latin America**, *Mauricio Salvo, Evelin González-Feliú, Jessica Toro, Iván Gallegos, Ignacio Maureira, Nicolás Miranda González, Olga Barajas, Eva Bustamante, Mónica Ahumada, Alicia Colombo, Ricardo Armisen, Camilo Villamán, Carolina Ibañez, María Loreto Bravo, Verónica Sanhueza, Loreto Spencer, Gonzalo de Toro, Erik Morales, Carolina Bizama, Patricia García, Ana María Carrasco, Lorena Gutiérrez, Justo Lorenzo-Bermejo, Ricardo A. Verdugo, Katherine Marcelain*, doi: <https://doi.org/10.1101/2021.03.19.21253988>.
- 2021 **Crystal structure and molecular dynamics simulations of a promiscuous ancestor reveal residues and an epistatic interaction involved in substrate binding and catalysis in the ATP-dependent vitamin kinase family members**, *Felipe Gonzalez-Ordenes, Felipe Bravo-Moraga, Evelin Gonzalez, Leslie Hernandez-Cabello, Jans Alzate-Morales, Victoria Guixé, Victor Castro-Fernandez*, PMID: 33555078 DOI: 10.1002/pro.4040.

Conferences and Congresses

- 2021 **ALAG2021**, *Valdivia, Chile*, Poster: "Variación genética de la población chilena y su impacto en el diagnóstico de mutaciones somáticas en oncología de precisión". First author.
- 2021 **ALAG2021**, *Valdivia, Chile*, Poster: "Alteraciones genómicas de NTRK en pacientes oncológicos latinoamericanos.". First author.
- 2020 **LIII SOCHIGEN**, *Santiago, Chile*, Conference: "Identification of somatic mutations in Chilean cancer patients: New opportunities for discovery and the need for a reference genome.". Collaborator.
- 2020 **LIII SOCHIGEN**, *Santiago, Chile*, Poster: "Identificación de nuevas mutaciones somáticas con potencial patogénico y predictivo en pacientes chilenas con cáncer de mama.". First author.
- 2018 **Encuentro Anual U-Genoma 2018**, *Santiago, Chile*,
Poster: "Reconstrucción de rutas metabólicas y perfil de expresión del transcriptoma de *V. chilensis* y *V. pubescens*, especies de papaya Chilena". First author.
- 2017 **Plant and Animal Genome Conference XXV**, *January 14-18, San Diego, CA*,
Conference: "Functional genomics as a tool to unveil bioactives compounds in commercial and natives plant". Collaborator.

- 2016 **Meeting of Plant Biology**, *Chillán, Chile*, Poster: "Transcriptome characterization of *V. pubescens* and *V. chilensis*: Two phenotypically contrasting papaya species". First author.
- 2014 **XXXVII Annual Meeting of the Biochemical Society and Molecular Biology of Chile**, *Puerto Varas, Chile*, Poster: "Analysis of the last common ancestor of bifunctional hydroxymethyl-pyrimidine/pyridoxal kinases enzymes". First author.

Additional information

- Languages Native Spanish and English reading level
- Tools Experience with Docker, GitHub, DockerHub and databases (SQL)
- Programming Python, R, Bash, html/php, perl languages
- S. O. Advanced handling of UNIX systems
- Extras Work experience in multidisciplinary teams

Reference contact

Dr. Ricardo Armisen, *Genetics and Genomics Center, Institute of Science and Innovation in Medicine, Faculty of Medicine, UDD*,
E-mail, rarmisen@udd.cl.

Dra. Katherine Marcelain, *Department of Basic Clinical Oncology, Faculty of Medicine, University of Chile*,
E-mail, kmarcelain@uchile.cl.