

CATALINA LAGOS

BIOTECHNOLOGY ENGINEER, MSC 📍 ÑUÑO A, SANTIAGO, CHILE 📞 +56974929025

◦ DETAILS ◦

Pasaje Nueve 4826 dpto 12b
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Chile
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catalinalagos@outlook.com

Date of birth
10-29-1989

Driving license
B

◦ LINKS ◦

[LinkedIn](#)

◦ SKILLS ◦

Fast Learner
Computer Skills
Communication
Teamwork
Customer Service Skills
Analytical Thinking Skills
Adaptability

◦ LANGUAGES ◦

Spanish; Castilian

English

German

◦ HOBBIES ◦

Cycling, swimming and scientific information

👤 PROFILE

Scientific Research with 6+ years of experience in molecular biology, strategies for Next Generation Sequencing projects and data analysis. Feels comfortable scientific teams working. Excellent communication and presentation skills. Proficient in Spanish and English.

📁 EMPLOYMENT HISTORY

Research Assitant/Project Manager at Facultad de Medicina, Clínica Alemana-Universidad del Desarrollo, Lo Barnechea, Santiago

December 2020 — Present

I am currently working closely with rare disease team (DECIPHERD project), to assist them in exome sequencing (CES, WES) and data analysis, Sanger validation of the presumptive pathogenic variant

Research Associate at Andes Ag, Ñuñoa, Santiago

December 2018 — June 2020

Bioinformatician

Design and implementation of sequencing strategies to obtain over +100 bacterial genomes using Illumina

Molecular biology analysis (TaqMan, qRT-PCR, molecular markers validation)

Research Associate/Project Manager at Centro de Biotecnología, Universidad de Concepción, Concepción

January 2016 — November 2018

Transcriptome sequencing analysis of *E. nitens* and *E. globulus* plants under cold acclimation

Bioinformatics activities - designed transcriptome sequencing strategies (454/Illumina) and data analysis (de novo assembly, mapping, annotation gene, phylogeny, DGE, gene ontology)

Molecular analysis - validation of in silico results, genotyping using SSR

Assitant Professor - Genetics and Genomes and Bioinformatics

🎓 EDUCATION

Master of Science in Bioinformatics, Universidad de Concepción, Concepción

April 2013 — December 2015

Universidad de Concepción, Bachelor of Engineering in Biotechnology, Concepción

March 2008 — April 2013

📄 PAPERS

June 2015 — Present

Aguayo P, Lagos C, Medina D, Fernández M, Valenzuela S. (2019) Transcriptome-wide identification of WRKY family genes and their expression under cold acclimation in *Eucalyptus globulus*. *Trees* 1-15. doi:10.1007/s00468-019-01860-3.

Gaete-Loyola J, Lagos C, Beltrán M, Valenzuela S, Emhart V, Fernández M. (2017-) Transcriptome profiling of *Eucalyptus nitens* reveals deeper insight into the molecular mechanism of cold acclimation and deacclimation process. *Tree Genetics & Genome* 13:37. doi:10.1007/s11295-017-1121-4.

Lagos C, Gaete J, Valenzuela S, Fernández M. Biotechnology Center, University of Concepción. Transcriptome sequencing and *de novo* assembly of cold acclimated *Eucalyptus nitens* using Ion Torrent. IUFRO Biotechnology Conference. June 2015- . Florence, Italy.

REFERENCES

○ **Marta Fernández, Ph.D. from Universidad de Concepción**
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○ **Felipe Aquea, Ph.D. from Andes Ag**
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