LUCIA RAMIREZ-NAVARRO

Interested in using bioinformatics to understand the immune system and help in the diagnosis and treatment of related diseases

EDUCATION

2020 -2021

Wellcome Sanger Institute, UK MPhil in Biological Science

2016 -2020

National Autonomous University of Mexico (UNAM), Cuernavaca, Mexico

Bachelor in Genomic Sciences (LCG)

Grade: 9.8/10

RESEARCH EXPERIENCE

2020 -Present

MPhil student

Wellcome Sanger Institute, UK.

Dr Gosia Trynka

• Deciphering the role of sex in CD4+ T cell activation and cell heterogenity using single cell transcriptomics

2017-2020

Research assistant

International Laboratory for Human Genome Research (LIIGH), Queretaro, Mexico

Dr. Alejandra Medina Rivera

- Characterization of the regulatory effect of genetic variants located in promoters with enhancer activity (epromoters) and its relationship with human diseases
- · Role of epromoters during the inflammatory response
- Prediction of epromoters
- · Differential expression among smokers with or without COPD, using several integration tools

2019

Globalink Research Intern

Queen's University, Kingston, Canada

Dr. Robert Gooding

- Pancancer analysis of the relationship between methylation and gene expression
- Biomarker discovery using methylation and gene expression for prostate cancer

CONTACT INFO

■ lucia.grmz@gmail.com

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COMPUTING **SKILLS**

Expertise: R and Rstudio, Python, Git and Bash

Familiarity: Perl, C, Php,

Html, Mysql

LANGUAGES

English

French

Portuguese

This resume was made with the R package pagedown

Last updated on 2020-11-24.

2017-2018

Systems biology workshop

Center for Genomic Sciences (CCG), Cuernavaca, Mexico

Dr. Julio A. Freyre-González

• Inference of regulatory networks

2018

Summer Scholar

Stowers Institute for Medical Research, Kansas, US.

Dr. Ariel Bazzini

• Codon composition explains mRNA changes between tissues, splicing isoforms and protein levels

2017-2018

Research assistant

Biotechnology Institute (IBT), Cuernavaca, Mexico

Dr. Celina Garcia Melendrez

Cyclosporine effects in regeneration with mouse models

2016

Summer intern

University of Chile, Santiago, Chile

Dr. Jenny Fiedler Temer

- Sex-especific effects of cortisol
- Training in molecular and genomic techniques

PUBLICATIONS

- Santiago-Algarra, D., Souaid, C., Singh, H., Dao, L., Medina-Rivera, A., Ramirez-Navarro, L., ... & Spicuglia S. Epromoters function as a hub to recruit key transcription factors required to the inflammatory response. Manuscript submitted.
- Santana-Garcia, W., Rocha-Acevedo, M., Ramirez-Navarro, L., Mbouamboua, Y., Thieffry, D., Thomas-Chollier, M., ... & Medina-Rivera, A. RSAT variation-tools: An accessible and flexible framework to predict the impact of regulatory variants on transcription factor binding. Computational and Structural Biotechnology Journal 2019. doi: 10.1016/j.csbj.2019.09.009

TALKS AND POSTERS

2020

ISMB2020

Talk: Characterization of regulatory variants in promoters with enhancer activity and their relation with human diseases

Virtual

2020

Undergraduate Poster Competition

Poster: Characterization of regulatory variants in promoters with enhancer activity and their relation with human diseases

♠ King Abdullah University of Science and Technology (KAUST)

	7	HONOURS AND AWARDS
2019	•	Mitacs globalink research internship Awarded a scholarship to participate in a 12-week research internship under the supervision of Canadian university faculty members.
2018		Stowers summer scholars program Selected to participate in an independent research project under the direction of an investigator from the institute during 8 weeks.
2016	•	SEP-UNAM scholarship Awarded a scholarship to go abroad and work in a research project for two months.
2015	•	XXV olympic chemistry Won third place in the statewide tournament
	•-	TEACHING EXPERIENCE
2020	•	Lecturer in Bioinformatics II: Epigenomic analysis Campus UNAM Juriquilla, Mexico
2019		Instructor in the Workshop in Advanced Bioinformatics Campus UNAM Juriquilla, Mexico
2018	•	Teaching assistant for the course: <i>Introduction to bioinformatics</i> CCG, Mexico
		COURSES
2020	•	Logical modeling of cellular networks: formalism, software, and applications UNAM, Campus Juriquilla
2019		I Interinstitutional Workshop on Data Science and Artificial Intelligence UDLAP, Puebla
2019	•	Statistics for Genome Wide Association Studies UNAM, Campus Juriquilla
2018	•	Workshop in Deep Learning UAEM
2017	•	II Summer school in bioinformatics UNAM, Campus Juriquilla
2016	•	Workshop: Sex, Genes and Conduct CCG-UNAM
2016	•	XI Update seminar on genetics: Human genetics UNAM
2016	•	Clubes de Ciencia: Visualizing the bonds of life Mexico
2015	•	Clubes de Ciencia: Unlocking the mysteries within Mexico
2015	•	Science workshop for young people Mexico