



PROFILE

Molecular biologist committed to research in biosciences field with several years of experience working in labs and adept in bioinformatics software to analyse big data. Responsibility and logical thinking have made me achieve my professional and personal challenges. Eager to learn more about the integration of multi-omics, informatics and biochemistry in a lab group abroad where I would be able to develop my research and social skills.

CURRENT POSITION

Institute of Molecular Pathology and Immunology of the University of Porto (Portugal)
MSCA-ITN Early Stage Researcher Nov 2019-May 2021
Research fellow in BIOINF2BIO

EDUCATION

Queen's University Belfast Belfast (UK)
Erasmus Trainee May 2019-August 2019

University of Granada Granada, Spain
Master in Molecular Biology applied to Biotechnology
Enterprises (BioEnterprise) September 2018-September 2019
First-Class Honours

University of Seville and University of Malaga Seville, Spain
Biochemistry degree September 2014-June 2018
First-Class Honours

V Centenario Institute Seville, Spain
Bachillerato (Health Sciences) September 2012-June 2014
Graduated with honours

GRANTS AND AWARDS

University of Seville Seville, Spain
Merit with Distinction. Mark: 10/10 February 2018
Biochemical Pharmacology (Biochemistry degree)

V Centenario Institute Seville, Spain
Merit with Distinction. Average: 9.32/10 June 2014
Participant in Andalusian Special Undergraduate Awards

Seville City Council
Personal and academic journey award in Seville

Seville, Spain
June 2012

LANGUAGES

English (Cambridge C1 level). Italian, Portuguese and French basic skills.

RESEARCH EXPERIENCE

I3S & IPATIMUP; BIOINF2BIO

Porto, Portugal

Early Stage Researcher; Supervisor: Carla Oliveira

May 2019-Aug 2019

Development of Bioinformatics tools to explore EVs and cell content.

NGS data analysis from RNA-seq, ChIP-seq, ATAC-seq, 4C-seq and proteomics. Currently developing papers about sRNA inside Extracellular vesicles in the recipient cell, focused on several types of tumours. Collaborating with 3 more projects in the consortium about EVs.

Belfast City Hospital/Queen's University Belfast

Belfast, UK

Erasmus Trainee; Master Thesis; Supervisor: Marisa Cañadas Garre

May 2019-Aug 2019

- *Identification of mitochondrial variants associated to Cardiovascular Disease development in the UKB cohort.*

Mark: 9/10. Retrospective cohorts study through command-line programs and statistical software.

Institute of Plant Biochemistry and Photosynthesis (IBVF) –
Plant Development Unit-Spanish National Research Council (CSIC)

Seville, Spain
July 2017-July 2018

Final Project (Biochemistry); Supervisor: Myriam Calonje

- *Recruiting mechanisms of Polycomb complexes in Arabidopsis thaliana.* Mark: 9.3/10

MNase-seq lab experiments and sequenced data analysis through linux software, R packages and web tools.

Computer Science and AI department
Undergraduate Student

February 2017-June 2017

- Computational analysis of differentially expressed genes in Arabidopsis thaliana and Ostreococcus tauri, related to carbon metabolism and photoperiod. RNA-seq data analysis through Tuxedo and R packages.

SKILLS AND TECHNIQUES

Molecular techniques

- DNA/RNA extraction and purification
- PCR
- Protein extraction and purification
- Electrophoresis SDS-PAGE, agarose gel, 2D
- Western blot

Computational skills

- GWAS analysis
- R, Java, PHP
- WGS, proteomics
- 4C-seq, ATAC-seq
- RNA-seq, ChIP-seq

ADDITIONAL COURSES

Institute of Mathematics, University of Seville
Integration of multi-omics data in genetic association studies
Provided by D. Juan Ramón González Ruiz (ISGlobal, Barcelona).
Seville, Spain
September 2017 (7 hours)

Intermediarios del Sur
Office automation, programming and web design
Advanced learning in Microsoft office software package,
programming in Java and PHP, web design in HTML5.
Seville, Spain
2017-Present (250 hours)

Computer Science and AI department (University of Granada)
3rd Bioinformatics workshop
Machine learning basic knowledge and R packages handling
applied to Molecular biology.
Granada, Spain
February 2019 (55 hours)

PARTICIPATION AT CONGRESSES (Seville)

- Science fair; IBVF stand (2017)
- XVI Conference of Spanish Biometric Society at IMUS (2017).
- 'Workshop on plant development under environmental stress'; Doñana's Singular Scientific-Technical Infrastructure (2018).
- 'Oncothon, Cancer Interception congress'; Granada (2018).
- i3s Annual Meeting; Porto (2019).
- Attendance to European Society of Human Genetics 2020. Online.
- Poster presentation at Portuguese Society of Human Genetics 2020. Online.

REFERENCES

Carla Oliveira
Group Leader

carlaol@ipatimup.pt

Marisa Cañadas Garre

Postdoc Research fellow

M.CanadasGarre@qub.ac.uk