

# IRENE JULCA

## 1. Personal information

Nationality Peruvian  
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Scopus Author ID 57222322641  
Google Scholar <https://scholar.google.es/citations?hl=en&user=ruCrGm0AAAAJ>

## 2. Education

02/2014 - 12/2017 Ph.D. Plant Biology and Biotechnology, Centre for Genomic Regulation (CRG) and Universitat Autònoma de Barcelona, Barcelona Spain. Award: Excellent *cum laude*  
08/2010 - 10/2011 M.Sc. Biotechnology, University of Granada, Spain.  
Award: 9.5/10  
05/2008 - 12/2009 Degree in Biology, National University of Trujillo, Peru.  
Award: 20/20 *cum laude*  
04/2003 - 08/2008 B.Sc. Biological Sciences, National University of Trujillo, Peru.  
Award: Excellent *cum laude*

## 3. Employment history

09/2023 Senior Postdoctoral Researcher. University of Lausanne (UNIL) / Swiss Institute of Present  
Bioinformatics (SIB) (Switzerland, Advisor: Prof. Christophe Dessimoz)  
07/2022 Senior Research Fellow. Nanyang Technological University (NTU) (Singapore,  
07/2023 Advisor: Assoc. Prof. Marek Mutwil)  
09/2019 Research Fellow. Nanyang Technological University (NTU) (Singapore, Advisor:  
06/2022 Assoc. Prof. Marek Mutwil)  
01/2018 Postdoctoral Researcher. Centre for Genomic Regulation (CRG) / Barcelona  
07/2019 Supercomputing Center (BSC-CNS) (Spain, Advisor: Dr. Toni Gabaldón)  
02/2014 Ph.D. Student. Centre for Genomic Regulation (CRG) (Spain, Advisors: Dr. Toni  
12/2017 Gabaldón and Prof. Pablo Vargas Gómez)  
02/2012 Researcher. Camposol - D&C Group (Peru, Advisors: Dr. Luis De Stefano-Beltrán  
11/2013 and Dr. Eric Louis Mialhe Matonnier)  
08/2010 M.Sc. Student. The Water Institute of Granada (Spain, Advisor: Dr. Maximino  
10/2011 Manzanera)

## 4. Approved research projects

12/2024 Novartis Foundation for Medical-Biological Research. Switzerland (CHF80k, €82k).  
06/2022 10th Intra-CREATE Seed Collaboration grant proposal from National Research  
Foundation NRF, Singapore (S\$250k / CHF173k / €176k).

## 5. Teaching activities

- 2025 Teaching Assistant of ‘Bioinformatic Algorithms’ (Master of Science) (40h). University of  
2024 Lausanne (Switzerland). Two semesters: 19 and 12 students.
- 2021 Teaching Assistant of “Introduction to Computational Thinking (course code BS1009)”  
2020 (24h). Nanyang Technological University (Singapore). Two semesters: 150 and 200 students.
- 2020 Online lectures for the course “Cellular and Molecular Biology”. (18h). National University  
of Trujillo (Peru). One semester: 60 students.
- 2019 Instructor of “Comparative and Functional Genomics” (20h). Pompeu Fabra University  
(Spain). Two semesters: 24 and 30 students.
- 2018 Project supervisor of “Bioinformatics” (12h). Pompeu Fabra University (Spain). Three  
2016 semesters: 5, 4, and 4 students.
- 2017 Lecture for the Master’s degree in Biodiversity and conservation in tropical regions (1h).  
Menéndez Pelayo International University (Spain). One lecture: 20 students.
- 2008 Teaching Assistant of “Plant Physiology” (598h). National University of Trujillo (Peru). One  
semester: 40 students.

## 6. Talks, Posters (last 2 years)

- 08/2025 **Talk:** Functional fate of duplicated genes. ESEB 2025. Spain.
- 07/2025 **Talk:** Tracing the functional divergence of duplicated genes. ISMB/ECCB 2025. United  
Kingdom.
- 07/2024 **Poster:** Towards Comparative QTLomics. The Intelligent Systems for Molecular Biology  
(ISMB) conference 2024. Canada.
- 05/2024 **Invited presentation:** Investigating the evolutionary history of gene families. Quadram  
Institute - Norwich. England
- 01/2024 **Talk/Poster:** Comparative transcriptomic analysis of land plants. SwissPLANT  
symposium 2024. Switzerland.

## 7. Memberships in panels, boards, and individual scientific reviewing activities

- Active member of the International Society for Computational Biology (ISCB) and the European Society for Evolutionary Biology (ESEB)
- Member of the Proceedings Program Committee: 19th and 21st European Conference on Computational Biology (ECCB2020, ECCB2022)
- Evaluator: Singapore Science & Engineering Fair 2023. Evaluation of an FWO Post-doctoral project. The European Science Foundation - Science Connect
- Paper review: BMC Plant Biology, Plant Cell Reports, PCI Evol Biol, Journal of Molecular Evolution, Wellcome Open Research, Nature Communications

## 8. Languages:

Spanish (Mother tongue), English (Advanced), Italian (Intermediate), French (Basic)