



# Sofía Vallepuga Merino

## BIOTECHNOLOGIST

Passionate about cell and molecular biology, I have focused my academic and professional path on the study of human diseases. I am particularly interested in understanding the underlying mechanisms that cause them, in order to contribute to their prevention, diagnosis, and treatment from a scientific perspective.



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Madrid, España

## EXPERIENCIA



04/25 – PRESENT **PHD STUDENT AT CNIC** | *Molecular Mechanisms of the Cardiovascular System Group*



01/24 – 05/24 **RESEARCH INTERN AT iibm** | *Metals in Cancer*



05/22 – 11/22 **RESEARCH INTERN AT IBIOMED** | *Cell Differentiation and Model Design Group (MODCELL)*

## FORMACIÓN



05/22 – 11/22 **MASTER'S DEGREE IN GENETICS AND CELL BIOLOGY AT UCM**  
*Effect of metal-based drugs I5 and I6 on gastric cancer cell lines MKN45 and AGS, conducted at IIBM (CSIC-UAM).*



05/22 – 11/22 **BACHELOR'S DEGREE IN BIOTECHNOLOGY AT ULE**  
*Characterization of the E14Tg2a mouse embryonic stem cell line, conducted at IBIOMED.*

## SKILLS

**Hard skills:** flow cytometry; western blot; immunofluorescence; qPCR, RT-PCR, PCR; embryoid body formation; bacterial cloning and transformation; generation of in vivo mouse models using CRISPR-Cas9; culture of hiPSCs and mESCs; generation of EHTs; proficiency in software tools: Excel, ImageJ, FlowJo, Gradpath, Matlab, Igor (WaveMetrics), ApE.

**Soft skills:** meticulousness; analytical thinking; adaptability; teamwork; scientific communication; initiative; leadership; commitment to continuous improvement.

## IDIOMAS

- Spanish | Native
- English | C1 Level (IELTS Academic)

## OTHER MERITS

- Animal experimentation certification (03/25 – 06/25): accredited to handle animals used, bred, or supplied for experimental and other scientific purposes, including teaching. Functions A, B, and C (ECC 566/2015), or functions A, C, and D (Directive 2010/63/EU).
- Flow cytometry (05/25) and confocal microscopy (04/25) training courses.
- Volunteer in the project "Donate Blood, Receive Science" (Red Cross, FECYT, UCM) (06/24).
- Participation in the science outreach project Biotechnofarm (FEbiotec) (09/21 – 06/22).
- Communication Officer at the Association of Biotechnologists of León (ABLE), organizing scientific outreach activities (09/20 – 06/22).
- Awards and recognitions:
  - First prize for best poster ("Characterization of the mouse embryonic stem cell line") at the XV Genetics and Biotechnology Conference, Portugal (03/23).
  - First prize for best oral presentation ("Cleptoplasty") in the lecture series "Con Ciencia, Té" (12/21).