

# PAULA IGLESIAS MORENO



**Currently in:** Stockholm (Sweden)

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**Education in progress:** **Master's Programme in Biomedicine. Karolinska Institutet.** 2023-2025.

**Current job:** **Digital ambassador at Karolinska Institutet.** 2023-2025. Part of the Instagram team and responsible for Reels.

**Finished education:** **Bachelor's Degree in Biotechnology. Universitat Autònoma de Barcelona (UAB).** Specialization in Cellular and Molecular Biotechnology. 2019-2023.

- **Courses:** Gene and Cell therapy, Technology of Reproduction, Bioreactors, Genetically Modified Animals, Molecular Biology and Genetics, Immunology, Virology, Analysis and Synthesis of Bioprocesses, Separation and Purification Processes, Biotechnological Vaccines and Drugs, Genetic Engineering of Microorganisms, Molecular Pathology, Bioinformatics, etc.
- **Bachelor's thesis:** "A vaccine based on bacterial ghosts against *Pseudomonas aeruginosa* and *Staphylococcus aureus*". Supervised by Susana Campoy Sanchez, PhD.

**Languages:** **Spanish.** Native.

**Catalan.** Native.

**English.** C1. Cambridge Advanced Exam obtained in 2018.

**Swedish.** A2.

**Research experience:** **Karolinska Institutet, Master's thesis.** Andres Salumets' group. Supervised by Alberto Sola Leyva, PhD. November 2024 – June 2025.

- **Aim:** To determine the effect of probiotic and pathogenic-derived bEVs in endometrial physiology during the acquisition endometrial receptivity by using 3D self-assembling endometrial organoids.
- **Methods:** thawing and expansion of endometrial organoids, seeding the organoids for exposure to bacterial extracellular vesicles (bEVs), RNA extraction and RNAseq, data analysis with Galaxy, immunostaining, epithelial integrity assay and endometrial receptivity assay (beREADY®). Blastoid culture and attachment assay. Co-culture of endometrial organoids with live bacteria.

**A\*STAR Institute for Human Potential and Development. SIPGA scholarship.** Professor Chan's group. Supervised by Hannah Yong, PhD. 2024.

- **Aim:** Investigating the role of placental ABC transporters.
- **Methods:** cell culture of several cell lines (HEK273T, JEG3, HeLa and BeWo), Western Blot, placental tissue processing, immunoblotting, isolation and culture of cytotrophoblast cells from human term placenta, ELISA assay, etc.

**Karolinska Institutet Stem cell lab.** Fredrik Lanner's group. Supervised by Sanjiv Risal, PhD. 2024.

- **Aim:** Exploring the role of *MSL2* in human naïve pluripotent stem cells.
- **Methods:** Naïve stem cell with feeder layer (MEF) culture, CRISPR-Cas9 based gene editing, DNA and RNA extraction, PCR and qPCR and primers design.

Observation of blastoids and their formation from naïve stem cells.

**Institute of Biotechnology and Biomedicine (IBB) internship.** Yeast Molecular Biology group. Supervised by Principal Investigator Joaquín Ariño, PhD. 2022.

- **Aim:** Design of synthetic gene promoters in *Pichia pastoris* using molecular biology techniques.
- **Methods:** techniques of Molecular Biology such as PCR amplification, DNA restriction, purification, ligation, etc., as well as *E. coli* chemical transformation and yeast transformation by electroporation, cell culture (bacteria and yeast), etc.

**BIYSC 2019 participant** (Barcelona International Youth Science Challenge) organized by Fundació Catalunya La Pedrera, in **Institut de Recerca Biomèdica (IRB)**.

- **Aim:** *Drosophila melanogaster* as a model organism to study the intricate paths of tumorigenesis.
- **Methods:** dissections in vivo, immunostainings, advanced microscopy (confocal microscopy), image processing, statistics, mutant CRISPR generation, genomic PCR and sequencing, etc.

**School private lessons.** All subjects from High School, specifically the scientific ones (math, physics, chemistry, biology) to a student diagnosed with Asperger syndrome. 2018-2023.

**Research skills:**

**Gene editing:** CRISPR-Cas9 gene editing on human embryonic stem cells by electroporation, chemical transformation in *E. coli*, yeast transformation by electroporation.

**Molecular biology:** PCR, qPCR, DNA and RNA extraction, sequencing, DNA plasmid restriction, purification and ligation, Western Blot, immunofluorescence, ELISA, flow cytometry, bioinformatics, ELISA assay.

**Cell culture:** 3D human endometrial epithelial organoids (and attachment assay), human embryonic naïve stem cells, human cell lines (HEK273T, JEG3, HeLa and BeWo), bacteria and yeast.

**Tissue processing:** placental and cord tissue.

**Soft skills:** teamwork, problem solving, scientific writing, data analysis, adaptability, communication, curiosity, persistence, time management, presentation skills, organization.

**Literature:**

Currently writing a Review paper about bacterial extracellular vesicles in female reproduction. I will be first co-author and also designing some of the figures.

**Conferences:**

1<sup>st</sup> Swedish Extracellular Vesicles Network Meeting.

**Research interests:**

Fertility, implantation, 3D organoids (related to female reproduction), human reproduction techniques, embryonic development, human stem cells, iPSCs, regenerative medicine, cell therapy, gene editing, etc.

**Other education:**

**Children and youth free time activities monitor's course taught by Cet10.** Monitor's number: 161113. 2020-2021.

**Professional Intermediate-level music studies (violin).** El Musical (Bellaterra) music school. 2013-2020.

**Scientific High School Diploma.** Sagrada Família Sabadell School (Spain). 2017-2019.

**Secondary Education.** FEDAC Cerdanyola School (Spain). 2013-2017.

**Other  
experience:**

**Adventure summer camp monitor** in Rosa dels Vents. July 2021 and July 2023.

**Summer camp monitor** in FEDAC Cerdanyola. July 2021.

**Monitor** in FEDAC Cerdanyola (2021).

**Volunteer in "Lliga Protectora d'animals de Sabadell" animal shelter.** Socialization of the cats and attendance of potential adopters. 2019-2021.