

Anna Prieto Colomina

Biomedical Specialist



SCAN ME

ABOUT ME

10/07/1993

Driven by a passion to understand the brain and its diseases, I am completing a **PhD in Neurosciences** that integrates **neurodevelopment and cancer biology** to explore the origins of embryonal brain tumors. With over 8 years of hands-on experience in **cellular and molecular biology**, I excel in dynamic research environments, adapting quickly to challenges and delivering **impactful results**.

FIELDS OF EXPERTISE

Neurodegenerative diseases, Adult and pediatric brain tumors, Neurodevelopment, Cortical expansion during evolution, Brain organoids, Transcriptomics, Transgenic mouse lines.

PERSONAL SKILLS

- Fast-learning, adaptability and proactivity
- Analytical and problem-solving thinking
- Effective verbal and written communication
- Time-management and organization
- Creativity and self-motivation
- Attention to detail
- Empathetic and Teamwork oriented
- Leadership and strategic planning

LANGUAGES

Spanish - Native
Catalan - Native
English – Advanced
IELTS 7,5

MOBILITY

Car license B
Since 2012
Car owner

CONTACT

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<https://anprieco0.cms.webnode.es/>

Willing to relocate

References upon request

EXPERIENCE

- **Research Scientist** ALICANTE, SPAIN
Instituto de Neurociencias (IN)
2018 - Now
Consejo Superior de Investigaciones Científicas (CSIC) - Universidad Miguel Hernández (UMH)
Neurogenesis and Cortical Expansion Group – PhD. Víctor Borrell
- **Research Scientist** BARCELONA, SPAIN
Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)
2016 - 2018
Glioma and Stem Cells Group – PhD. Núria de la Iglesia
- **Extracurricular Science School Teacher** BARCELONA, SPAIN
Explorium SCP
2015- 2016
- **Research Scientist** BARCELONA, SPAIN
Institut de Bioenginyeria de Barcelona (IBEC)
2014- 2016
Molecular and Cellular Neurobiotechnology Group – PhD. José Antonio del Río
- **Research Assistant** BARCELONA, SPAIN
Universitat de Barcelona (UB)
2014- 2016
Planarias Group – PhD. Francesc Cebrià

EDUCATION

- **Doctoral Degree in Neurosciences** ALICANTE, SPAIN
Instituto de Neurociencias (IN, CSIC-UMH)
2018 - Now
- **Master Degree in Neurosciences (9,28/10)** BARCELONA, SPAIN
Universitat Autònoma de Barcelona (UAB)
2016 - 2017
- **Animal Experimentation Course** BARCELONA, SPAIN
Centres Científics i Tecnològics de la Universitat de Barcelona (UB)
2016
- **Master Degree in Biomedical Research (8,72/10)** BARCELONA, SPAIN
Universitat Pompeu Fabra (UPF)
2015 - 2016
- **Degree in Biomedical Sciences (8,6/10)** BARCELONA, SPAIN
Universitat de Barcelona (UB)
2011 - 2015
- **Bachelor in Sciences (9,5/10 – High Honors)** BARCELONA, SPAIN
Universitat de Barcelona (UB)
2011 - 2015



AWARDS

- **Asociación Española Contra el Cáncer (AECC)** Project Grant (2022 - 2025)
- **Tatiana Pérez de Guzmán el Bueno** Predoctoral Fellowship (2018 – 2023)
- **Catalunya – La Pedrera Foundation** Master Fellowship (2015 – 2016)
- **Spanish Ministry of Education** Department Fellowship (2014 – 2015)
- **Universitat de Barcelona** High Distinctions in Cellular biology, Cytology and histology, Molecular genetics, Neurobiology, Metabolism regulation, human genetics and neurological pathologies (2011 – 2015)

PROFESSIONAL SKILLS

- **Molecular Biology:** Total RNA extraction, PCR, RT-qPCR, Protein extraction, Western blot, In situ hybridization, Plasmid design and cloning, Retrovirus production.
- **Transcriptomics:** bulk and single-cell RNAseq, bulk ATACseq, spatial transcriptomics (MERSCOPE, Visium).
- **Cellular Biology:** Primary cultures, Different cell line cultures, Co-culture growth, cell sorting (FACS), microfluidics (Xona), Incucyte/Cytation 5, DNA transfection, hiPSC, brain organoids.
- **Histology and imaging:** Mice colonies management, In utero electroporation, Perfusion, Immunohistochemistry, Fluorescence and confocal microscopes (Zeiss, Leica), Image J (FIJI).
- **Data Analysis, bibliographic management and design:** Office, R, Python, Graphpad, Mendeley, Zotero, EndNote, Adobe illustrator, Affinity designer.

SCIENCE OUTREACH

- **2024: MEDNIGHT Event** (Museo Didáctico e Interactivo de Ciencia Jesús Carnicer) - Talk
- **2024: Congreso para Pacientes y Familiares** (Asociación Española Contra el Cáncer) – Round Table
- **2024: Pint of Science** – Member of the Organizing Committee
- **2023: Meeting with local groups** (Asociación Española Contra el Cáncer) - Round Table
- **2023: Proyecto Conócelas** (Asociación Española de Investigación sobre el Cáncer) – Talks to Schools
- **2022: “I am Researcher, I am CSIC” VideoContest 3rd Edition** (CSIC) – Participation with a video-description of my PhD's Project → bit.ly/49phxKr
- **2020: IN Scientific Retreat** – Member of the Organizing Committee
- **2019 and 2022: Brain's Week (IN)** - Volunteer
- **2016: Joan Oró Scientific Outreach Awards** – Participation creating an educational videogame → <https://gliolab.wixsite.com/joanoro2016/el-projecte>



PUBLICATIONS

- Alonso-Olivares H, Marques MM, Prieto-Colomina A et al. **Mouse cortical organoids reveal key functions of p73 isoforms: TAp73 governs the establishment of the archetypical ventricular-like zones while DNP73 is central in the regulation of neural cell fate.** Front Cell Dev Biol. 2024-
- Del-Valle-Anton L, Amin S, Cimino D et al. **Multiple parallel cell lineages in the developing mammalian cerebral cortex.** Sci Adv. 2024.
- Chinnappa K, Cárdenas A, Prieto-Colomina A et al. **Secondary loss of miR-3607 reduced cortical progenitor amplification during rodent evolution.** Sci Adv. 2022.
- Prieto-Colomina A, Fernández V, Chinnappa K et al. **MiRNAs in early brain development and pediatric cancer: At the intersection between healthy and diseased embryonic development.** Bioessays. 2021.
- Fernández V, Martínez-Martínez MÁ, Prieto-Colomina A et al. **Repression of Irs2 by let-7 miRNAs is essential for homeostasis of the telencephalic neuroepithelium.** EMBO J. 2020.



SCIENTIFIC PRESENTATIONS

- **2024: Jornada X Aniversario Plan de Apoyo a la Neurociencia Española (PANE)** (Fundación Tatiana) - Talk
- **2024: 14th Forum of Neuroscience** (Federation of European Neuroscience Societies) – Poster Presentation
- **2023: Jornada de IPs y Becarios** (Fundación Tatiana) – Round table and talk
- **2023: Gene Regulatory mechanisms in neural fate decisions** (EMBO Conference) - Poster Presentation
- **2023: III Congreso Anual Internacional de Estudiantes de Doctorado** (Universidad Miguel Hernández de Elche) - Talk
- **2023: II Congreso Anual de Conexión Cáncer** (Consejo Superior de Investigaciones Científicas) – Poster Presentation
- **2022: Brain Tumour Conference** (Cancer Research UK)
- **2022: Encuentro de Investigación – Buscando Sinergias (ISABIAL – IN)** – Talk and Poster Presentation
- **2022: Synapse Lecture** (NeurotechEU) - Talk



COURSES

- **2024: Workshop on Science Communication** - NeurotechEU
- **2024: Adobe for Science** – Instituto de Neurociencias
- **2024: Transcriptomic Analysis for Neuroscience** - Instituto de Neurociencias / FENS
- **2022: Cooking AI with Python** – Instituto de Neurociencias
- **2021: Graphical design for researchers** – Instituto de Neurociencias.
- **2020: Scientific writing and publishing** - Nature
- **2020: Photoshop CS5** - CSIC
- **2019: Improving Openness in Animal Research in Spain** – Instituto de Neurociencias

