



Curriculum Vitae

Personal information **Marta Alvarado**

Work experience

- **Agencia Española de Medicamentos y Productos Sanitarios** (AEMPS - Madrid, Spain)
 - February 2025 - present
 - Position: R&D Technician
 - Division of Biological Products, Biotechnology and Advanced Therapies
 - Activities: assay manager in **Laboratory of Virology and Molecular Biology** (Biologics OMCL), **allergen quality assessor** and administrative procedure for **OCABR of Blood-derived products**.
- **Fundación Investigación Biomédica Hospital Universitario Ramón y Cajal** (IRYCIS - Madrid, Spain)
 - April 2024 - February 2025
 - Position: predoctoral researcher
 - Laboratory of Biomarkers and Therapeutic Targets (PI: Laura García Bermejo, PhD)
 - Activities: Biomedical research in miRNAs in pancreatic cancer.
- **Instituto de Ingeniería del Conocimiento** (IIC - Madrid, Spain)
 - November 2022 - March 2024
 - Position: data scientist for biological solutions
 - Health Predictive Analytics unit
 - Activities: Development of AI solutions and data analysis for disease prediction, personalized medicine and management of medical data.
- **National Center for Tumor Diseases** (NCT - Dresden, Germany)
 - June 2021 - September 2022
 - Position: Research assistant
 - Preclinical Model Unit (PMU).
 - Activities: Assistance in tumor organoid generation and culturing, drug and genetic screenings, databases and lab inventory management.

Education and training

- **Applied Data Science Program**
 - Massachusetts Institute of Technology (MIT - held online)
 - September 2022 - December 2022
 - Postgraduate studies
 - Content: Foundations for Data Science, Data Analysis & Visualization, Machine Learning, Practical Data Science, rRecommendation Systems and Deep Learning.
- **Master in Regenerative Biology and Medicine**
 - Technische Universität Dresden - Germany
 - September 2020 - September 2022
 - Master in Science (MSc)
 - Content: variety of topics related to biomedical research, advanced therapies and developmental biology. Lab experience with 4 internships of 6-months each in well-established research groups.
- **Degree in Biotechnology**
 - Universidad Politécnica de Madrid - Spain
 - September 2016 - July 2020
 - Bachelor Degree
 - Content: variety of topics including general biology, mathematics, chemistry and physics, genetics, molecular biology, metabolism, microbiology, bioreactors, biotechnological applications, statistics, bioinformatics, protein structures etc., with specialization in medical biotechnology.

Additional information

Publications

Projects

- 2024** "Identification and functional characterization of miRNAs as new biomarkers useful in pancreatic cancer" – IRYCIS (Hospital Ramón y Cajal). PI: Dra. Laura García Bermejo
- 2022** "Unraveling GNB1 heterogeneity and GNB1-induced mTOR target genes in PDAC" – Internship in National Center for Tumor Diseases (NCT) Dresden - Translational Medical Oncology Department (Germany). PI: Claudia Ball, PhD
- 2021-2022** "Assessing of EGF growth factor requirement and selective puromycin concentrations for patient-derived KRAS-mutated PDAC organoids" – Internship in National Center for Tumor Diseases (NCT) Dresden - Translational Medical Oncology Department (Germany). PI: Claudia Ball, PhD
- 2021** "Study of the interaction between sleep and ER stress during aging in *C. elegans*" – Internship in BIOTEC Center - TU Dresden (Germany). PI: Prof. Dr. Henrik Bringmann
- 2020-2021** "Optimizing AAV infection of iPSC-derived motor neurons as a delivery system for ALS therapeutic approaches" – Internship in Center for Regenerative Therapies Dresden (CRTD) (Germany). PI: Prof. Dr. Jared Sternecker

2019-2020 "Setting up CRISPR technology for genetic edition of mitochondrial DNA in mice embryos" – External training in Laboratorio Ingeniería Genómica INIA (Madrid - Spain). PI: Dr. Pablo Bermejo Álvarez

Memberships

Other Relevant Information