

CV Profile (max. 2 pages length)

Name: María Teresa Marcos Almaraz

Brief introduction about yourself (including your research interests)

My postgraduate studies were devoted to Biomedicine. During my PhD project, I searched for the molecule that acts as oxygen sensor in the neurosecretory cells of carotid body in mammals, directed to new therapies in the field of Parkinson's disease and hypoxia. After successfully defending my PhD thesis at Universidad de Sevilla, I worked as a postdoctoral researcher at Universidad del País Vasco in Bilbao, to characterize stem cells cultures from human esclero-corneal limbal epithelium. After that, at the Institut de la Vision in Paris, I studied the development of corneal sensory innervation in mammals. Next, I was recruited as a postdoctoral researcher at Institut Lavoisier Versailles, where I realized the co-encapsulation and characterization of anti-retroviral drugs into nanoparticles. My last contract associated to public biomedical research was at Institut de Myologie, to generate an in vitro model for the study of neuromuscular dystrophies by using the CRISPR/Cas9 system. In 2018, I have successfully finished a master in Journalism and Communication in Science at Universidad Carlos III de Madrid. Nowadays, and because of the lack of financial support, I have just finished my contract at Greenfoods Network, S.L as a deputy director at the R&D department to develop a strategy for the production of cultured meat. Besides all these projects, I have always volunteered in environmental, animal protection, educational and cultural activities. My current professional goals are going on contributing to the common health and welfare advances in our society, providing all my experience in the scientific research and divulgation to the specialized companies and research centers.

Education

Please list the **name** of each imparted programme with its corresponding **dates**.

PhD: Name of PhD programme (dd/mm/yyyy- dd/mm/yyyy)

PhD in Biology (Biomedicine) at Universidad de Sevilla (Spain) - Instituto de Biomedicina

Master's degree: Name of master's degree (dd/mm/yyyy- dd/mm/yyyy)

Master in Journalism and Communication in Science, Technology, Environment and Heal

Undergraduate degree: Name of Undergraduate Degree (dd/mm/yyyy- dd/mm/yyyy)

Bachelor degree in Biology at Universidad de Salamanca (Spain); (01/10/1996 - 01/10/20

Experience in research

Please list in **reverse** order. Indicate **responsibility** and the performed **activities**. Indicate also the **dates and number of months** of each activity.

IMPORTANT: Management and teaching activities are not considered as research experience.

- January – December, 2020. Attached to R&D Directorate at Greenfoods Network (Spain). Research and development for the production of cultivated meat and agri-food products. Design and implementation of company communication strategies. Collaboration in the preparation of R&D proposals to National and European Funding Programs. Website: greenfoodsnetworks.com
- November, 2019 – January, 2020. Manager and administrator at Apadrina la Ciencia (Spain). Administration and management of scientific dissemination events in Madrid (Universal Children's Day 2019 and Juvenalia 2019). Annual reports of calls for sponsorship of scientific projects. Website: apadrinalaciencia.org
- October - November, 2019. Evaluator of Scientific Projects at Universidad Autónoma de Madrid (Spain). Evaluator of 7 Young Researchers' Projects for their funding by the Universidad Autónoma de Madrid.
- September - October, 2018. Scientific editor at Instituto de Biomedicina de Salamanca (Spain). Department of Communication. Internship trainee for the Master in Journalism and Communication in Science. Supervisor: Raquel Camicero
- May, 2016- July, 2017. Postdoctoral Researcher at UPMC and Inserm. Institut de Myologie/Hôpital de la Pitié-Salpêtrière (Paris, France). "Skeletal muscle alterations caused by expanded CTG and responsible for the development of the neuromuscular Myotonic Dystrophy (DM1) disease". Keywords: Muscle cell cultures, CRISPR/Cas9 system, cloning, molecular and cellular biology, biochemistry of proteins, signalling pathways, microscopy, cell sorting, clonal dilution, immunohistochemistry, yeast-2-hybrid technique. Principal investigators: Drs. Denis Furling and Gillian Butler-Browne.
- July, 2014- June, 2015. Postdoctoral Researcher at CNRS (Centre National de la Recherche Scientifique). Institut Lavoisier Versailles/Fac. Pharmacie-Université Paris-Sud (Versailles and Paris, France). "In vitro characterization of anti-VIH molecules encapsulated in nanoparticles". Keywords: nanoMOFs, colloidal stability, cytotoxicity, macrophage cell cultures, biodistribution, pharmacokinetic, drug encapsulation, confocal microscopy, HPLC, physico-chemical characterization (ATG, IR, X-Ray Diffraction, BET). Principal investigator: Drs. Patricia Horcajada and Christian Serre. Publications: DOI:10.1039/C7TB01933E , DOI:10.1016/j.chempr.2017.06.007
- April, 2013- March, 2014. Postdoctoral Researcher at Institut de la Vision / Centre Hospitalier National d'Ophthalmologie des Quinze-Vingts (Paris, France). "Development of corneal sensory innervation and re-innervation after corneal surgery". Keywords: corneal innervation, immunohistochemistry, image and analysis by confocal microscopy. Principal investigator: Dr. Alain Chédotal. Publications: DOI:10.1523/JNEUROSCI.1401-18.2018
- April - July, 2012. Postdoctoral Researcher at Universidad del País Vasco. Department of Cellular Biology and Histology (Bilbao, Spain). "Characterization and modulation of human epithelium corneal cells cultures for cell therapy in cases of limbar pathology". Keywords: human primary cell cultures, immunohistochemistry, confocal microscopy, molecular biology. Principal investigator: Dra. Noelia Andollo Victoriano.
- July, 2004- September, 2011. Ph.D. Student in Biology at Instituto de Biomedicina de Sevilla. Hospital Universitario "Virgen del Rocío"/CSIC/Universidad de Sevilla (Spain). Thesis: "Hemoproteins role in the chemosensory function of neurosecretory cells". Supervisors: Drs. Alberto Pascual and José López-Barneo. Mark: Magna Cum Laude. Supported by a FPI (Formation of Research Staff) grant from the Spanish Government. Keywords: hypoxia, carotid body, alpha-hemoglobin, genetic edition (CRE-loxP system), signalling pathways, molecular and cellular biology, cloning, cell cultures (primary cultures, cell lines, 3D cultures), biochemistry, viral vectors (retrovirus, AAVs). Associated projects:
 - ? "Characterization of rat carotid body under hypoglycemia". Research grant from Spanish Government.
 - ? "Characterization of protective and survival mechanisms of postnatal catecholaminergic neurons by neurotrophic glia derived factor". Principal investigator: Dr. Alberto Pascual Bravo.
 - ? "Oxygen sensing and neurodegeneration". Principal investigator: Dr. José López-Barneo.
 - ? "Initial mechanisms in the response to ischemia". Principal investigator: Dr. Alberto Pascual Bravo.
 - ? "Study of mechanisms operating during ischemia". Principal investigator: Dr. Alberto Pascual Bravo. Teaching assistant at Department of Medical Physiology and Biophysics (Universidad de Sevilla).
- Research stay at University of Wisconsin School of Medicine and Public Health. Department of Neurology (Madison, Wisconsin, EE.UU). Supervisor: Dra. Corinna Burger. Publications: DOI:10.1042/BJ20111640 , DOI:10.1085/jgp.200910302 , Other paper but not sent
- 2003 - 2004. Assistant Researcher at "Mare Nostrum" ONG and "Delfinarium- Acvarium" in Constanța, Rumania.
- June – September, 2002. Assistant Researcher at Universidad de Salamanca. Department of Pharmacology and Animal physiology.

Sector of activity

Please write the sector name in which your research/knowledge can be useful (food, mobility, health...):
Health (cell cultures, molecular biology, ...)

Select the option/s about your profile

To be admissible for the call, you must fulfil **at least one** of the two requirements.

PhD and a minimum of 2 additional years of full-time research experience (*the 2 minimum additional years of full-time research must be done after the PhD*): **Yes or No** Yes

Master's degree and a minimum of 6 additional years of full-time research experience (*PhD studies are considered research experience*): **Yes or No** Yes

Contact information

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