



Curriculum Vitae

Personal information **Gloria Maria Palomo Carrasco**

Work experience

1. Employer: Agencia Española de Medicamentos y Productos Sanitarios
 - Start date: 09-2022
 - End date:
 - Position: Head of Service, Non-Clinical Area
 - Activities: Planning, coordination, supervision and non-clinical assessment of Advanced Therapies and Vaccines
 - Country: Spain
2. Employer: Agencia Española de Medicamentos y Productos Sanitarios
 - Start date: 09-2019
 - End date:
 - Position: Member of the Committee for Orphan Medicinal Products
 - Activities: Member from Spain of the COMP (European Medicines Agency, EMA; Netherlands).
 - Country: Spain
3. Employer: Agencia Española de Medicamentos y Productos Sanitarios
 - Start date: 02-2018
 - End date:
 - Position: Non-Clinical Assessor
 - Activities: Pharmaco-toxicological evaluation of medicines for human use. Advanced Therapies and Vaccines.
 - Country: Spain
4. Employer: Weill Cornell Medicine, Feil Family Brain and Mind Research Institute (New York)
 - Start date: 02-2012
 - End date: 08-2017
 - Position: Postdoc Associate
 - Activities: Research on the pathogenesis of ALS in animal and cellular models, with special focus on mitochondria quality control mechanisms.
 - Country: United States
5. Employer: Centro de Biología Molecular Severo Ochoa (Centro de Investigación Biomédica en Red de Enfermedades Raras-CIBERER- and Fundación Severo Ochoa)
 - Start date: 11-2009
 - End date: 02-2012
 - Position: Postdoctoral Fellow
 - Activities: Characterization of the molecular mechanisms responsible for the neurodegeneration in Friedreich's ataxia.
 - Country: Spain
6. Employer: Institut de Génétique et de Biologie Moléculaire et Cellulaire (Strasbourg)
 - Start date: 03-2007
 - End date: 06-2007
 - Position: Visiting Predoctoral Fellow
 - Activities: Isolation and characterization of neural precursor cells from Friedreich's ataxia mouse models and their differentiation to mature neuronal cells.
 - Country: France
7. Employer: Universidad Autónoma de Madrid (Molecular Biology Department and Centro de Biología Molecular Severo Ochoa)
 - Start date: 09-2003
 - End date: 10-2009
 - Position: Predoctoral Fellow (Formación de Profesorado Universitario fellowship, FPU)
 - Activities: Research focused on the generation of new neuronal cell models of Friedreich's ataxia and the characterization of the neurodegeneration related to frataxin deficiency.
 - Country: Spain
8. Employer: Universidad Autónoma de Madrid (Molecular Biology Department)
 - Start date: 09-2002
 - End date: 06-2003
 - Position: Undergraduate Student
 - Activities: Research on the effects of Glycogen Synthase Kinase_3 (GSK_3) inhibitors in the survival of neuronal cells.
 - Country: Spain

Education and training

1. Subject: Universidad Autónoma de Madrid
 - Start date: 09-2005
 - End date: 10-2009
 - Qualification: PhD in Molecular Biology (Neuroscience)
 - Organisation:
 - Country: Spain
2. Subject: Universidad Autónoma de Madrid
 - Start date: 09-2003
 - End date: 09-2005
 - Qualification: Postgraduate Studies (Diploma de Estudios Avanzados, DEA) in Molecular

- Biology and Neuroscience
 - Organisation:
 - Country: Spain
- 3. Subject: Universidad Autónoma de Madrid
 - Start date: 09-2001
 - End date: 06-2003
 - Qualification: BsC in Biochemistry
 - Organisation:
 - Country: Spain
- 4. Subject: Universidad Autónoma de Madrid
 - Start date: 09-1998
 - End date: 06-2001
 - Qualification: Certificate in Biological Sciences
 - Organisation:
 - Country: Spain

Additional information

Publications

- **Palomo G.M.**, Pose-Boirazian T., Naumann-Winter F., Costa E., Duarte D.M., Kalland M.E., Malikova E., Matusевич D., Vitezic D., Larsson K., Magrelli A., Stoyanova-Beninska V., Mariz S. Navigating the orphan medicinal product designation: Evidence requirements for gene therapies in Europe. *Mol Ther.* 2024 Oct 28;S1525-0016(24)00675-0. doi: 10.1016/j.ymthe.2024.10.015.
- Kalland M.E., Pose-Boirazian T., **Palomo G.M.**, Naumann-Winter F., Costa E., Matusевич D., Duarte D.M., Malikova E., Vitezic D., Larsson K., Magrelli A., Stoyanova-Beninska V., Mariz S. Advancing rare disease treatment: EMA's decade-long insights into engineered adoptive cell therapy for rare cancers and orphan designation. *Gene Ther.* 2024 Mar 14. doi: 10.1038/s41434-024-00446-0.
- **Palomo G.M.**, Pose-Boirazian T., Naumann-Winter F., Costa E., Duarte D.M., Kalland M.E., Malikova E., Matusевич D., Vitezic D., Larsson K., Magrelli A., Stoyanova-Beninska V., Mariz S. The European landscape for gene therapies in orphan diseases: 6-year experience with the EMA Committee for Orphan Medicinal Products. *Mol Ther.* 2023 Dec 6;31(12):3414-3423.
- Deng Z., Lim J., Wang Q., Purtell K., Wu S., **Palomo G.M.**, Tan H., Manfredi G., Zhao Y., Peng J., Hu B., Chen S., Yue Z. ALS_FTLN linked mutations of SQSTM1/p62 disrupt selective autophagy and NFE2L2/NRF2 anti_oxidative stress pathway. *Autophagy.* 2019 Jul 30;1_15.
- **Palomo G.M.**, Granatiero V., Kawamata H., Konrad C., Kim M., Arreguin A.J., Zhao D., Milner T.A., Manfredi G. Parkin is a disease modifier in the mutant SOD1 mouse model of ALS. *EMBO Mol Med.* 2018 Oct;10(10). pii: e8888.
- Kawamata H., Peixoto P., Konrad C., **Palomo G.**, Bredvik K., Gerges M., Valsecchi F., Petrucelli L., Ravits J.M., Starkov A., Manfredi G. Mutant TDP_43 does not impair mitochondrial bioenergetics in vitro and in vivo. *Mol Neurodegener.* 2017 May 8;12(1):37.
- Riar A.K., Burstein S.R., **Palomo G.M.**, Arreguin A., Manfredi G., Germain D. Sex specific activation of the ERα axis of the mitochondrial UPR (UPRmt) in the G93A SOD1 mouse model of familial ALS. *Hum Mol Genet.* 2017 Apr 1;26(7):1318_1327.
- **Palomo G.M.** and Manfredi G. Exploring new pathways of neurodegeneration in ALS: the role of mitochondria quality control. *Brain Res.* 2015, May 14;1607:36_46.
- **Palomo G.M.**, Cerrato T., Gargini R., Díaz_Nido J. Silencing of frataxin gene expression triggers p53_dependent apoptosis in human neuron_like cells. *Hum Mol Genet.* 2011, Jul 15;20(14):2807_22.
- Giménez_Cassina A., Lim F., Cerrato T., **Palomo G.M.**, Díaz_Nido J. Mitochondrial Hexokinase II promotes neuronal survival and acts downstream of Glycogen Synthase Kinase_3. *J Biol Chem.* 2009 Jan 30;284(5):3001_11.
- Lim F., **Palomo G.M.**, Mauritz C., Giménez_Cassina A, Illana B., Wandosell F., Díaz_Nido J. Functional recovery in a Friedreich's Ataxia mouse model by frataxin gene transfer using an HSV_1 amplicon vector. *Mol. Ther.* 2007 Jun;15(6):1072_8.

Projects

Memberships

Short_term fellowship from Universidad Autónoma de Madrid for a research collaboration at The Institut de Génétique et de Biologie Moléculaire et Cellulaire (Strasbourg, France).

Predoctoral fellowship from Ministerio de Educación y Ciencia (Formación de Profesorado Universitario, FPU) to conduct the PhD project.

Fellowship for undergraduate students from Ministerio de Educación y Ciencia to conduct a research project in a laboratory during the last year of university studies.

Poster presentation selected as Hot Topic in the Neuroscience 2015 meeting (Society for Neuroscience, Chicago, USA) . Poster # 68.11/O13; presentation title: The role of mitophagy and parkin in SOD1_ALS.

Scientific Advisory Board for EU-funded Join4ATMP project (September 2024-current).

Other Relevant Information

Collaboration as Assistant Teacher in the Department of Molecular Biology, Universidad Autónoma de Madrid (2003_2011). Subjects: Biochemistry, Enzymology, Microbiology and Genetic Engineering.

Reviewer for 2 international journals, *Nucleic Acid Research* and *Journal of Neuroscience* (2012_ 2017).