

José Félix Moruno Manchón, Ph.D.

Datos Personales

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Educación

2017 Certificado Postdoctoral, The University of Texas McGovern Medical School, Houston, Texas
2013 Grado de Doctor, Biotecnología, Universidad Politécnica de Valencia
2007 Diploma de Estudios Avanzados, Botánica, Universidad de Valencia
2001 Licenciatura de Biología, Universidad de Valencia

Experiencia Investigadora

2014 – Actual Personal Postdoctoral, Dpto. Neurobiología y Anatomía, The University of Texas McGovern Medical School, Houston, Texas
Supervisor: Dr. Andrey S. Tsvetkov
2008 – 2013 Estudiante de Doctorado, Dpto. Degradación Intracelular de Proteínas, Centro de Investigación Príncipe Felipe, Valencia
Supervisores: Dr. Erwin Knecht y Dra. Eva Pérez-Jiménez
2007 – 2008 Asistente de Investigación, Dpto. Degradación Intracelular de Proteínas, Centro de Investigación Príncipe Felipe, Valencia
Supervisores: Dr. Erwin Knecht
2005 – 2007 Asistente de Investigación, Dpto. Biotecnología, Universidad Politécnica de Valencia
Supervisor: Dr. Oscar Vicente
2003 – 2005 Asistente de Investigación, Dpto. Botánica, Universidad de Valencia
Supervisoras: Dr. Pilar Soriano and Dr. Elena Estrelles

Experiencia Docente

2013 – 2014 Profesor Adjunto, Dpto. Ciencias Experimentales, Universidad Católica de Valencia San Vicente Mártir
Biología Celular, 60 horas/año, 65 estudiantes
Cultivos Celulares, 60 horas/año, 20 estudiantes

Premios

2017 Beca postdoctoral por la Hereditary Disease Foundation
2017 Golf Coast Consortia (GCC) Regenerative Medicine Symposium, 2º premio en presentación de póster
2016 6th Annual Postdoctoral Science Symposium, 3^{er} premio en presentación de póster

Sociedades Profesionales

2015 – 2016 Society for Neuroscience, Socio

Presentaciones Orales

1. **Moruno-Manchon JF** and Tsvetkov AS. The sphingosine-1-phosphate pathway in Huntington's disease. The Neuroscience Graduate Program lab update seminars, Houston, Texas, 2016
2. Perez-Jimenez E, Lopez-Alegre C, **Moruno-Manchon JF**, Lahuerta M and Knecht E. Induction of autophagy by glucose. 3rd Meeting of the Spanish Autophagy Group-Workshop at XVI Congress of the Spanish Society for Cell Biology, Sevilla, España, 2015
3. Perez-Jimenez E, **Moruno-Manchon JF**, Lopez-Alegre C and Knecht E. Mechanisms of autophagy induction by glucose under starvation conditions. 1st Proteostasis Meeting, Valencia, España, 2014

Presentaciones de Pósters

1. **Moruno-Manchon JF**, Uzor NE, Wefel JS and Tsvetkov AS. Clinical trials in a culture dish: an automated microscopy platform to screen for neuroprotective drugs. 14th GCC Theoretical & Computational Neuroscience Annual Conference, Houston, Texas, 2017
2. **Moruno-Manchon JF**, Dabaghian Y, Uzor NE, Kesler SK, Wefel JS and Tsvetkov AS. Doxorubicin induces DNA and synaptic damage in neurons. 6th Annual Postdoctoral Science Symposium, Houston, Texas, 2016
3. **Moruno-Manchon JF**, Dabaghian Y, Uzor NE, Kesler SK, Wefel JS and Tsvetkov AS. Levetiracetam mitigates doxorubicin-induced DNA and synaptic damage in neurons. Number: 423.06. Society for Neuroscience Annual Meeting, San Diego, California, 2016
4. Khan A, **Moruno-Manchon JF**, Tsvetkov AS and Jagannath C. Blockade of proteasomal degradation enhances MHC-II dependent peptide epitope production through chaperone dependent autophagy in dendritic cells infected with *Mycobacterium bovis* BCG vaccine. The American Association of Immunologists Meeting, Seattle, Washington, 2016
5. **Moruno-Manchon JF**, Furr-Stimming EE, Finkbeiner S and Tsvetkov AS. Cytoplasmic sphingosine-1-phosphate pathway modulates neuronal autophagy. The 22nd Annual Neuroscience Poster Session, Houston, Texas, 2015
6. **Moruno-Manchon JF**, Furr-Stimming EE, Finkbeiner S and Tsvetkov AS. Cytoplasmic sphingosine-1-phosphate pathway modulates neuronal autophagy. Number: 489.02. Society for Neuroscience Annual Meeting, Chicago, Illinois, 2015
7. **Moruno-Manchon JF** and Tsvetkov AS. Amelioration of toxicity in a neuron model of Huntington's disease by an inhibitor of sphingosine-1-phosphate-lyase. NeuroRegeneration Collaborative Symposium, the Gulf Coast Consortia for Quantitative Biomedical Sciences, Houston, Texas, 2015
8. **Moruno-Manchon JF** and Tsvetkov AS. Targeting sphingosine-1-phosphate pathway as a therapeutic strategy for Huntington's disease. Autophagy across biology and medicine symposium, Houston, Texas, 2015
9. **Moruno-Manchon JF** and Tsvetkov AS. Sphingosine kinase 2 as a therapeutic target in Huntington's disease. 21st Annual Neuroscience Poster Session, Houston, Texas, 2014
10. **Moruno-Manchon JF**, Estrelles E and Soriano P. Seed germination development and reproductive success of two *Gypsophila* species under saline stress conditions. Conservation de la flore mediterraneenne dans un environnement changeant, Hyeres, Francia, 2005

Publicaciones Revisadas

1. **Moruno-Manchon JF**, Uzor NU, Kesler SR, Wefel JS, Townley DM, Nagaraja AS, Pradeep S, Mangala LS, Sood AK and Tsvetkov AS. Peroxisomes contribute to oxidative stress in neurons during doxorubicin-based chemotherapy. *Mol Cell Neurosci*, in press, doi: 10.1016/j.mcn.2017.11.014, 2017
2. **Moruno-Manchon JF**, Koelhoeffer EC, Hambarde S, Kim N, McCullough LD and Tsvetkov AS. The G-quadruplex DNA stabilizing drug pyridostatin promotes DNA damage and downregulates transcription of Brca1 in neurons. *Aging (Albany, NY)*, 9:1957-1970. <https://doi.org/10.18632/aging.101282>, 2017
3. **Moruno-Manchon JF**, Uzor NE, Blasco Conesa MP, Mannuru S, Putluri N, Furr-Stimming EE and Tsvetkov AS. Inhibiting sphingosine kinase 2 mitigates mutant Huntingtin-induced neurodegeneration in neuron models of Huntington's disease. *Hum Mol Genet*, doi: 10.1093/hmg/ddx046, 2017
4. **Moruno-Manchon JF**, Uzor NU, Kesler SR, Wefel JS, Townley DM, Nagaraja AS, Pradeep S, Mangala LS, Sood AK and Tsvetkov AS. TFEB ameliorates the impairment of the autophagy-lysosome pathway in neurons induced by doxorubicin. *Aging (Albany, NY)*, doi: 10.18632/aging.101144, 2016
5. **Moruno-Manchon JF**, Dabaghian Y, Uzor NE, Kesler SR, Wefel JS and Tsvetkov AS. Levetiracetam mitigates doxorubicin-induced DNA and synaptic damage in neurons. *Sci Rep*, 6, 25705; doi: 10.1038/srep25705, 2016
6. **Moruno-Manchon JF**, Uzor NE, Dabaghian Y, Finkbeiner S and Tsvetkov AS. Sphingosine kinase 1-mediated autophagy differs between neurons and SH-SY5Y neuroblastoma cells. *Autophagy*, 12:8, 1418-1424, 2016
7. **Moruno-Manchon JF**, Uzor NE, Dabaghian Y, Furr-Stimming EE, Finkbeiner S and Tsvetkov AS. Cytoplasmic sphingosine-1-phosphate pathway modulates neuronal autophagy. *Sci Rep*, 5, 15213; doi: 10.1038/srep15213, 2015
8. Soriano P, **Moruno-Manchon JF**, Boscaiu M, Vicente O, Hurtado A, Llinares JV and Estrelles E. Is salinity the main ecologic factor that shapes the distribution of two endemic Mediterranean plant species of the genus *Gypsophila*? *Plant & Soil*, 384, 363-379, 2014
9. **Moruno-Manchon JF**, Perez-Jimenez E and Knecht E. Glucose induces autophagy under starvation conditions by a p38 MAPK-dependent pathway. *Biochem J*, 449, 497-506, 2013
10. **Moruno-Manchon JF**, Perez-Jimenez E and Knecht E. Regulation of autophagy by glucose in mammalian cells. *Cells*, 1, 372-395, 2012
11. **Moruno-Manchon JF**, Soriano P, Vicente O, Boscaiu M and Estrelles E. Opportunistic germination behavior of *Gypsophila* (Caryophyllaceae) in two priority habitats from semi-arid Mediterranean steppes. *Not Bot Horti Agrobo*, 39, 18-23, 2011
12. Knecht E, Aguado C, Carcel J, Esteban I, Esteve JM, Ghislat G, **Moruno-Manchon JF**, Vidal JM and Saez R. Intracellular protein degradation in mammalian cells: Recent developments. *Cell Mol Life Sci*, 66, 2427-2443, 2009

Publicaciones no Revisadas

1. **Moruno-Manchon JF**, Blasco-Conesa MP y Tsvetkov AS. La esfingosina quinasa 2 aparece como una posible diana terapéutica para la enfermedad de Huntington. *Revista Genética Médica*, 71, 19-20, 2017

Técnicas y cualidades

Cultivo de líneas celulares y células primarias (neuronas, astrocitos y fibroblastos)
Manipulación de animales de laboratorio (ratones y ratas)
Anestesia de roedores con vaporizador de isoflurano
Perfusión transcárdica en ratones
Disección de cerebros de roedores
Vías de inyección en ratones: intramuscular, subcutánea, intravenosa e intraperitoneal
Microscopía de fluorescencia, confocal y *high-content screening*
Técnicas en biología molecular: infección viral, transfección, nucleofección, western blot y qRT-PCR
Presentación de resultados: oral y escrita
Tareas administrativas: pedidos y presupuestos
Organización de personal
Elaboración de protocolos experimentales

Otras Actividades

1. Traductor de Español Voluntario. HDBuzz. <https://en.hdbuzz.net/>. 2017.
2. Voluntario. 6th Annual Presidential Career Symposium (APCS). APCS, Houston, Texas, 2017
3. Voluntario. Houston Museum of Natural Science. Houston, Texas, 2017
4. Capitán Jurado en Competición de Pósters. Graduate School of Biomedical Sciences Student (GSBS) Research Day. GSBS, Houston, Texas, 2016
5. Jurado de Competición de Pósters. Neuroscience retreat. The Neuroscience graduate program of the GSBS, Galveston, Texas, 2015
6. Coordinador de Recepción. Autophagy-across biology and medicine. University of Texas Health Sciences Center, Houston, Texas, 2015

Referencias

1. Dr. Andrey S. Tsvetkov, Profesor asociado, The University of Texas McGovern Medical School, Houston, Texas, andrey.s.tsvetkov@uth.tmc.edu
2. Dra. Louise McCullough, Directora del Dpto. Neurología, The University of Texas McGovern Medical School, Houston, Texas, louise.d.mccullough@uth.tmc.edu
3. Dr. Erwin Knecht, Jefe de laboratorio, Centro de Investigación Príncipe Felipe, knecht@cipf.es
4. Dra. Ana de Luís Margarit, Vicedecana de Biotecnología, Universidad Católica de Valencia, ana.deluis@ucv.es