

Curriculum Vitae

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Research technician

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ACADEMIC DEGREES:

- M.Sc degree in Secondary Education and Baccalaureate, Vocational Training and Language Teaching. Castilla-La Mancha University (UCLM). Toledo, Spain (2011).
- BSc. In Environmental Sciences. Castilla-La Mancha University (UCLM). Toledo, Spain (2008)

RESEARCH AND PROFESSIONAL EXPERIENCE.

- Current Position: Research technician, Experimental Neurophysiology and Neuronal CircuitsLab, Hospital Nacional de Paraplégicos, SESCAM, Toledo, Spain.
- 2012 - 2014: Research technician, Foundation for Research in Paraplegia (P1220), Hospital Nacional de Paraplégicos FUHNPAIIN, Toledo, Spain.
- 2011 - 2012 Research technician, Fundación para la Investigación Sanitaria en Castilla-La Mancha (PI-2010/026), Hospital Nacional de Paraplégicos FUHNPAIIN, Toledo, Spain.
- 2010 - 2011: Master student, in Secondary Education and Baccalaureate, Vocational Training and Language Teaching. Castilla-La Mancha University (UCLM). Toledo, Spain
- 2007 - 2008: Lab technician in Agrary Laboratory of Caja Rural de Toledo, Toledo, Spain

SCIENTIFIC PUBLICATIONS:

2021

1. Rosa, JM*; Farré-Alins, V; Ortega, MC; Navarrete, M; Lopez-Rodriguez, A; Palomino-Antolin, A; Fernández-Lopez, E; Decouty, C; Narros-Fernández, P; Vila-del Sol, V; Clemente, D; Egea, Javier*. TLR4-pathway impairs synaptic number and cerebrovascular functions through astrocyte activation following traumatic brain injury. *British Journal of Pharmacology*, DOI: 10.1002/BPH.15488,*corresponding(D1, IF: 7.7)

2020

2. Zaforas, M*; Rosa, JM*; Alonso-Calvino, E; Fernández-Lopez, E; Miguel-Quesada, C; Oliviero, A; Aguilar, J. (1/7). 2020. Cortical layer-specific modulation of neuronal activity after sensory deprivation due to spinal cord injury.*preprintbioRxiv*DOI: 10.1101/2020.12.28.424612

2019

3. Fernández-López E, Alonso-Calviño E, Humanes-Valera D, Foffani G, Aguilar J. “Slow-wave activity homeostasis in the somatosensory cortex after spinal cord injury”. *Exp Neurology* (2019) 322:113035. doi: 10.1016/j.expneurol.2019.113035. (IF 4.562)

2016

4. Desiré Humanes-Valera, Guglielmo Foffani, Elena Alonso-Calviño, Elena Fernández-López, Juan Aguilar. “Dual cortical plasticity after spinal cord injury”. *Cerebral Cortex* (2016). 27 (5): 2926-2940. doi: 10.1093/cercor/bhw142. (IF 8.665)

5. E. Alonso-Calviño, I. Martínez-Camero, E. Fernández-López, D. Humanes-Valera, G. Foffani, J. Aguilar. “Increased responses in the somatosensory thalamus immediately after spinal cord injury”. *Neurobiology of Disease* (2016) 87:39-49. [doi:10.1016/j.nbd.2015.12.003](https://doi.org/10.1016/j.nbd.2015.12.003). (IF 5.078)

Projects as Team Member

1. Deciphering the role of GABAergic neuronal populations in the cortical reorganization after spinal cord injury. (GABAInCoRe). de Economía y Competitividad. 2020-2024. PI: Juan Aguilar.

2. Unmyelinated axonal segments as regulators of axonal plasticity associated with memory and learning. Molecular and functional characterization in the hippocampus. Ref: SBPLY/17/180501/000250. Consejería de Educación, Cultura y Deporte. Junta de Comunidades de Castilla-La Mancha. 2018-2021. PI: Juan Aguilar & José Abad.

3. Spatial and temporal heterogeneity of neuronal plasticity caused by a spinal cord injury in the somatosensory cortex. Ref: BFU2016-08665-P. Ministerio de Economía y Competitividad. 2017-2019. PI: Juan Aguilar Lepe.