Personal Information

Marina RUBIO GOMEZ, 12/30/1978 Murcia (Spain)

Degrees and Diplomas

Authorization to Supervise Research (HDR) (May 2016)

European PhD degree (Complutense University of Madrid). "Role of the

endocannabinoid system in alcoholism: Physiological and Therapeutic Implications" July 2008.

University Certificate in Experimental Surgery (Lille, 2019).

University Diploma in Animal Experimentation (June 2010).

D.E.A. (Master's +2) in Neurosciences. Complutense University of Madrid. September 2005.

Master's in Biological Sciences, specializing in Neurobiology. Complutense University of Madrid, 2003.

Awards and Distinctions

AXA Foundation Award. Post-doctoral fixed-term contract for 12 months (2011-2012)

Congress Grant from the Foundation for Alcohol Research. 9th International Symposium on

Neuroprotection and Neurorepair, Leipzig 2016.

Congress Grant from the NIH (National Institute of Health)/NIDA (National Institute for Drug Abuse)

and the ICRS (International Cannabinoid Research Society). Atlanta, Georgia (USA); October 2006.

Congress Grant from the NIH/NIDA and the ICRS "Frontiers in Addiction Research," Washington D.C.

(USA) November 2005.

Congress Grant from the ICRS "ICRS 17th Symposium on the Cannabinoids." Canada, June 2007

Recipient of a FPU Doctoral Fellowship (Formación de Profesorado Universitario). Ministry of

Education and Science (Spain), 2004-2008.

Current Position

2018- Permanent position as Research Engineer at INSERM, Unit INSERM U1237

Professional Experience

2012-2018: Head of Clinical and Translational Research, CHU/INSERM Unit U1237 (Permanent position

as Research Engineer)

2008-2012: Post-doctoral Researcher in INSERM Unit U919 "Serine Protease and Pathophysiology of

the Neurovascular Unit," Caen. Funding: European Eurostroke Project; AXA Research Fund Laureate.

2007: Internship at the Cyceron Research Center, INSERM-Avenir Team “tPA in the Working Brain,”

Caen (France), under the supervision of Dr. Carine Ali and Denis Vivien (2 months).

2006: Internship at Indiana University (USA), Bloomington, IN, under the supervision of Dr. J. Michael

Walker (4 months).

2005: Internship in the Department of Neuroscience at the University of Cagliari (Italy), under the

supervision of Dr. Giancarlo Colombo (2 months).

2004-2008: Doctorate in the Department of Biochemistry and Molecular Biology III, Faculty of

Medicine; Complutense University of Madrid (Spain).

Research Output

A total of 43 publications. Most relevant publications (last 5 years) (\* Corresponding author).

- Levard D, Seillier C, Bellemain-Sagnard M, Fournier A, Lemarchand E, Dembech C, Riou G, McDade K,

Smith C, McQuaid C, Montagne A, Amann L, Prinz M, Vivien D\*, Rubio M\*. CNS-associated

macrophages tune immune response after stroke, a phenotype acquired with age. Nature

Neuroscience. 2024 Jul 3. doi: 10.1038/s41593-024-01695-3. (IF 25.6)

- Jacqmarcq C, Picot A, Flon J, Lebrun F, Martinez de Lizarrondo S, Naveau M, Bernay B, Goux D, Rubio

M, Malzert Fréon A, Michel A, Proamer F, Mangin P, Gauberti M, Vivien D, Bonnard T. MRI-Based

Microthrombi Detection in Stroke with Polydopamine Iron Oxide. Nature Communications 2024 Jun

13;15(1):5070. doi: 10.1038/s41467-024-49480-x (IF 14.7)

- Glavan M, Jelic A, Levard D, Frösen J, Keränen S, Franx BAA, Bras AR, Louet E, Dénes A, Merlini M,

Vivien D, Rubio M\*. CNS-associated macrophages contribute to intracerebral aneurysm

pathophysiology. Acta Neuropathol Commun. 2024 Mar 18;12(1):43. doi: 10.1186/s40478-024-01756-

5. (IF 7.9)

- Dalmau Gasull A, Glavan M, Samawar SKR, Kapupara K, Kelk J, Rubio M, Fumagalli S, Sorokin L, Vivien

D, Prinz M. The niche matters: origin, function and fate of CNS-associated macrophages during health

and disease. Acta Neuropathol. 2024 Feb 12;147(1):37. doi: 10.1007/s00401-023-02676-9. (IF 12.7)

- Correa-Paz C, Pérez-Mato M, Bellemain-Sagnard M, González-Domínguez M, Marie P, Pérez-Gayol L,

López-Arias E, del Pozo-Filíu L, López-Amoedo S, Bugallo-Casal A, Alonso-Alonso ML, Candamo-Lourido

M, Santamaría-Cadavid M, Arias-Rivas S, Rodríguez-Yañez M, Iglesias-Rey R, Castillo J, Vivien D\*, Rubio

M\*, Campos F\*. Pharmacological preclinical comparation between tenecteplase and alteplase for

acute stroke. J Cereb Blood Flow Metab 2024 Mar 4:271678X241237427. doi:

10.1177/0271678X241237427. (IF 6.960).

- Lebrun F, Levard D, Lemarchand E, Yetim M, Furon J, Potzeha F, Marie P, Lesept F, Blanc M, Haelewyn

B, Rubio M, Letourneur A, Violle N, Orset C, Vivien D. Improving Stroke Outcomes in Hyperglycemic

Mice by Modulating tPA/NMDAR Signaling to Reduce Inflammation and Hemorrhages. Blood Adv.

2024 Jan 8:bloodadvances.2023011744. (IF 7.5)

- Migliavacca M, Correa-Paz C, Pérez-Mato M, Bielawski PB, Zhang I, Marie P, Hervella P, Rubio M,

Maysinger D, Vivien D, Del Pino P, Pelaz B, Polo E, Campos F. Thrombolytic therapy based on lyophilized

platelet-derived nanocarriers for ischemic stroke. J Nanobiotechnology. 2024 Jan 3;22(1):10. doi:

10.1186/s12951-023-02206-5. (IF 10.2)

- Thiebaut AM, Buendia I, Ginet V, Lemarchand E, Boudjadja MB, Hommet Y, Lebouvier L, Lechevallier

C, Maillasson M, Hedou E, Déglon N, Oury F, Rubio M, Montaner J, Puyal J, Vivien D, Roussel BD.

“Thrombolysis by PLAT/tPA increases serum free IGF1 leading to a decrease of deleterious autophagy

following brain ischemia.” Autophagy. 2022 Jun;18(6):1297-1317. (IF 16.016)

- Garnier E, Levard D, Ali C, Buendia I, Hommet Y, Gauberti M, Crepaldi T, Comoglio P, Rubio M, Vivien

D, Docagne F, Martinez de Lizarrondo S. “Factor XII protects neurons from apoptosis by epidermal and

hepatocyte growth factor receptor-dependent mechanisms”. J Thromb Haemost. 2021

Sep;19(9):2235-2247. doi: 10.1111/jth.15414. (IF 16.036)

- Levard D, Buendia I, Lanquetin A, Glavan M, Vivien D, Rubio M\*. “Filling the gaps on stroke research:

Focus on inflammation and immunity”. Brain Behav Immun. 2021 Jan;91:649-667. (IF 19.227)

- Drieu A, Lanquetin A, Levard D, Glavan M, Campos F, Quenault A, Lemarchand E, Naveau M, Pitel AL,

Castillo J, Vivien D, Rubio M\*. “Alcohol exposure-induced neurovascular inflammatory priming impacts

ischemic stroke and is linked with brain perivascular macrophages”. JCI Insight 2020;5(4):e129226. (IF

9.484)

42 oral or poster presentations (2004-2024)

Co-inventor Patent: "Fibrinolytic enhancement through dual targeting of TAFI and PAI-1: engineering

bispecific inhibitors for in vivo evaluation." Filed and managed by Katholieke Universiteit Leuven, coowned

with INSERM.

Participation in Funded Projects (Last 5 Years): "Reorchestrating Neuro-Immunity after Stroke to

Improve Long-Term Recovery." Stroke Research Foundation. €50,000. Duration: 2025-2026. PI: Dr.

Marina Rubio; ENTRAIN Marie Skłodowska-Curie Action - Innovative Training Network (ITN). 2019-

2022; "Imaging Alcohol-Induced Neuroinflammation." French Institute and Hungarian Academy of

Sciences. 2017-2019. PI: Dr. Marina Rubio

Supervision and Co-Supervision of Theses (11 PhD students); Supervision of Master's students (13

students in Master 1 and Master 2); Member of the INSERM Research Engineer competition jury;

Thesis jury member (France and Spain); Invitation to the Advanced Biology Course on Brain

Neurovascular Interfaces at École Normale Supérieure in Paris (June 2024); Reviewer for Molecular

Biology, Neuroscience...