

Fecha del CVA

07/02/2020

Parte A. DATOS PERSONALES

Nombre y Apellidos	Santiago Rojas Codina		
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A.1. Situación profesional actual

Organismo	Universidad Atutonoma de Barcelona		
Dpto. / Centro	Anatomía y embriología humana / Facultad Medicina		
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Espec. cód. UNESCO			
Palabras clave			

A.2. Formación académica (título, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Neurociencias	Universitat de Barcelona	2008
Licenciado en Medicina y Cirugía	Universitat Autònoma de Barcelona	2007
Licenciado en Biología Especialidad Biología Sanitaria	Universitat Autònoma de Barcelona	2003

A.3. Indicadores generales de calidad de la producción científica

Autor de 56 artículos, 20 de los cuales como autor principal. Ha publicado en revistas con factor de impacto de hasta 24.302 (Nature medicine, Neurobiology of Aging, J Cerebral Blood Flow and Metabolism, Stroke, Alzheimer's and dementia, ACSnano, Molecular pharmaceuticals, Molecular Imaging and Biology, Burns, Clinical Anatomy) Estos trabajos acumulan 1635 citas y el índice H es 19.

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

- Artículo científico.** Rojas, Santiago; Ortega, Marisa; Rodríguez-Baeza, Alfonso. 2018. Variable anatomic configuration of the posterior spinal arteries in humans Clinical anatomy (New York, N.Y.). 31-8, pp.1137—1143-1137—1143. ISSN 0897-3806.
- Artículo científico.** González-Castillo, Ana; et al. 2018. Variations in vascular anatomy and unilateral adrenal agenesis in a female cadaver with situs inversus totalis Surgical and radiologic anatomy : SRA. 40-10, pp.1169—1172-1169—1172. ISSN 0930-1038.
- Artículo científico.** Rojas, Santiago; Ortega, Marisa; Rodríguez-Baeza, Alfonso. 2018. Vascular configurations of anastomotic basket of conus medullaris in human spinal cord Clinical anatomy (New York, N.Y.). 31-3, pp.441—448-441—448. ISSN 0897-3806.
- Artículo científico.** Rojas, Santiago; et al. 2018. Higher prevalence of cerebral white matter hyperintensities in homozygous APOE-ε4 allele carriers aged 45-75: Results from the ALFA study Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism. 38-2, pp.250—261-250—261. ISSN 0271-678X.
- Artículo científico.** Centeno, Alberto; et al. 2017. A new topical hemostatic agent TT-173 reduces blood loss in a sheep model of total knee arthroplasty The Knee. 24-6, pp.1454—1461-1454—1461. ISSN 0968-0160.

- 6 **Artículo científico.** Núñez-Ollé, Marc; et al. 2017. Constitutive Cyclin O deficiency results in penetrant hydrocephalus, impaired growth and infertility Oncotarget. 8-59, pp.99261—99273-99261—99273. ISSN 1949-2553.
- 7 **Artículo científico.** Gonzalez-Osuna, Aránzazu; et al. 2017. HESTAT: Study protocol for a phase II/III, randomized, placebo-controlled, single blind study to evaluate the new hemostatic agent TT-173 in total knee arthroplasty Contemporary clinical trials. 61, pp.16—22-16—22. ISSN 1551-7144.
- 8 **Artículo científico.** Gispert, Juan D; et al. 2017. Changes in cerebral [18F]-FDG uptake induced by acute alcohol administration in a rat model of alcoholism Behavioural brain research. 327, pp.29—33-29—33. ISSN 0166-4328.
- 9 **Artículo científico.** Rojas, Santiago; et al. 2017. EHTIC study: Evaluation of a new hemostatic agent based on tissue factor in skin grafting procedures Burns : journal of the International Society for Burn Injuries. 43-4, pp.780—788-780—788. ISSN 0305-4179.
- 10 **Artículo científico.** Brugulat-Serrat, Anna; et al. 2017. Incidental findings on brain MRI of cognitively normal first-degree descendants of patients with Alzheimer's disease: a cross-sectional analysis from the ALFA (Alzheimer and Families) project BMJ open. 7-3, pp.e013215-e013215. ISSN 2044-6055.
- 11 **Artículo científico.** Jané-Pallí, Enric; et al. 2017. Analytical parameters and vital signs in patients subjected to dental extraction Journal of clinical and experimental dentistry. 9-2, pp.e223—e230-e223—e230. ISSN 1989-5488.
- 12 **Artículo científico.** Gispert, Juan Domingo; et al. 2017. The APOE ε4 genotype modulates CSF YKL-40 levels and their structural brain correlates in the continuum of Alzheimer's disease but not those of sTREM2 Alzheimer's & dementia (Amsterdam, Netherlands). 6, pp.50—59-50—59. ISSN 2352-8729.
- 13 **Artículo científico.** Gispert, Juan Domingo; et al. 2016. Cerebrospinal fluid sTREM2 levels are associated with gray matter volume increases and reduced diffusivity in early Alzheimer's disease Alzheimer's & dementia : the journal of the Alzheimer's Association. 12-12, pp.1259—1272-1259—1272. ISSN 1552-5260.
- 14 **Artículo científico.** López-López, José; et al. 2016. TETIS study: evaluation of new topical hemostatic agent TT-173 in tooth extraction Clinical oral investigations. 20-5, pp.1055—1063-1055—1063. ISSN 1432-6981.
- 15 **Artículo científico.** Gispert, Juan Domingo; et al. 2016. CSF YKL-40 and pTau181 are related to different cerebral morphometric patterns in early AD Neurobiology of aging. 38, pp.47—55-47—55. ISSN 0197-4580.
- 16 **Artículo científico.** Gispert, JD; et al. 2015. Nonlinear cerebral atrophy patterns across the Alzheimer's disease continuum: impact of APOE4 genotype Neurobiology of aging. 36-10, pp.2687—2701-2687—2701. ISSN 0197-4580.
- 17 **Artículo científico.** Niñerola-Baizán, Aida; et al. 2015. Dopamine transporter imaging in the aged rat: a [¹²³I]FP-CIT SPECT study Nuclear medicine and biology. 42-4, pp.395—398-395—398. ISSN 0969-8051.
- 18 **Artículo científico.** Niñerola-Baizán, Aida; et al. 2015. In vivo evaluation of the dopaminergic neurotransmission system using [123I]FP-CIT SPECT in 6-OHDA lesioned rats Contrast media & molecular imaging. 10-1, pp.67—73-67—73. ISSN 1555-4309.
- 19 **Artículo científico.** Santiago Rojas; et al. 2015. Novel methodology for labelling mesoporous silica nanoparticles using the 18F isotope and their in vivo biodistribution by positron emission tomography Journal of Nanoparticle Research. Springer. 17, pp.131.
- 20 **Artículo científico.** Velázquez, Antonio; et al. 2015. Widespread microglial activation in patients deceased from traumatic brain injury Brain injury. 29-9, pp.1126—1133-1126—1133. ISSN 0269-9052.
- 21 **Artículo científico.** Farré, Magí; et al. 2014. Bilastine vs. hydroxyzine: occupation of brain histamine H1 -receptors evaluated by positron emission tomography in healthy volunteers British journal of clinical pharmacology. 78-5, pp.970—980-970—980. ISSN 0306-5251.
- 22 **Artículo científico.** Burokas, Aurelijus; et al. 2014. Relationships between serotonergic and cannabinoid system in depressive-like behavior: a PET study with [11C]-DASB Journal of neurochemistry. 130-1, pp.126—135-126—135. ISSN 0022-3042.

- 23 Artículo científico.** Puig, Isabel; et al. 2013. A personalized preclinical model to evaluate the metastatic potential of patient-derived colon cancer initiating cells Clinical cancer research : an official journal of the American Association for Cancer Research. 19-24, pp.6787—6801-6787—6801. ISSN 1078-0432.
- 24 Artículo científico.** Rojas, Santiago; et al. 2013. In vivo evaluation of amyloid deposition and brain glucose metabolism of 5XFAD mice using positron emission tomography Neurobiology of aging. 34-7, pp.1790—1798-1790—1798. ISSN 0197-4580.
- 25 Artículo científico.** Santiago Rojas; et al. 2013. Efficient cysteine labelling of peptides with N-succinimidyl 4-[18F]fluorobenzoate: stability study and in vivo biodistribution in rats by positron emission tomography (PET) RCS Advances. Royal Society of Chemistry. 3, pp.8028--8036.
- 26 Artículo científico.** Herance, José Raúl; et al. 2013. Erythrocytes labeled with [(18) F]SFB as an alternative to radioactive CO for quantification of blood volume with PET Contrast media & molecular imaging. 8-4, pp.375—381-375—381. ISSN 1555-4309.
- 27 Artículo científico.** Rojas, Santiago; et al. 2012. In vivo biodistribution of amino-functionalized ceria nanoparticles in rats using positron emission tomography Molecular pharmaceutics. 9-12, pp.3543—3550-3543—3550. ISSN 1543-8384.
- 28 Artículo científico.** Hoekzema, Elseline; et al. 2012. In vivo molecular imaging of the GABA/benzodiazepine receptor complex in the aged rat brain Neurobiology of aging. 33-7, pp.1457—1465-1457—1465. ISSN 0197-4580.
- 29 Artículo científico.** Abad, Sergio; et al. 2012. Rapid and high-yielding cysteine labelling of peptides with N-succinimidyl 4-[18F]fluorobenzoate Chemical communications (Cambridge, England). 48-49, pp.6118—6120-6118—6120. ISSN 1359-7345.
- 30 Artículo científico.** Tenbaum, Stephan P; et al. 2012. β -catenin confers resistance to PI3K and AKT inhibitors and subverts FOXO3a to promote metastasis in colon cancer Nature medicine. 18-6, pp.892—901-892—901. ISSN 1078-8956.
- 31 Artículo científico.** Guerrero, Simon; et al. 2012. Synthesis and in vivo evaluation of the biodistribution of a 18F-labeled conjugate gold-nanoparticle-peptide with potential biomedical application Bioconjugate chemistry. 23-3, pp.399—408-399—408. ISSN 1043-1802.
- 32 Artículo científico.** Herance, Raúl; et al. 2011. Positron emission tomographic imaging of the cannabinoid type 1 receptor system with [11 C]OMAR ([11 C]JHU75528): improvements in image quantification using wild-type and knockout mice Molecular imaging. 10-6, pp.481—487-481—487. ISSN 1535-3508.
- 33 Artículo científico.** Hoekzema, Elseline; et al. 2011. [(11)C]-DASB microPET imaging in the aged rat: frontal and meso-thalamic increases in serotonin transporter binding Experimental gerontology. 46-12, pp.1020—1025-1020—1025. ISSN 0531-5565.
- 34 Artículo científico.** Romero, Asunción; et al. 2011. A 18 F-fluorodeoxyglucose MicroPET imaging study to assess changes in brain glucose metabolism in a rat model of surgery-induced latent pain sensitization Anesthesiology. 115-5, pp.1072—1083-1072—1083. ISSN 0003-3022.
- 35 Artículo científico.** Rojas, Santiago; et al. 2011. Biodistribution of amino-functionalized diamond nanoparticles. In vivo studies based on 18F radionuclide emission ACS nano. 5-7, pp.5552—5559-5552—5559. ISSN 1936-0851.
- 36 Artículo científico.** Rojas, Santiago; et al. 2011. Evaluation of hypoxic tissue dynamics with 18F-FMISO PET in a rat model of permanent cerebral ischemia Molecular imaging and biology. 13-3, pp.558—564-558—564. ISSN 1536-1632.
- 37 Artículo científico.** Figueiras, Francisca P; et al. 2011. Simultaneous dual-tracer PET imaging of the rat brain and its application in the study of cerebral ischemia Molecular imaging and biology. 13-3, pp.500—510-500—510. ISSN 1536-1632.
- 38 Artículo científico.** Rojas, S; et al. 2011. Positron emission tomography with 11 C-flumazenil in the rat shows preservation of binding sites during the acute phase after 2 h-transient focal ischemia Neuroscience. 182, pp.208—216-208—216. ISSN 0306-4522.
- 39 Artículo científico.** Hoekzema, E; et al. 2010. The effects of aging on dopaminergic neurotransmission: a microPET study of [11 C]-raclopride binding in the aged rodent brain Neuroscience. 171-4, pp.1283—1286-1283—1286. ISSN 0306-4522.

- 40 Artículo científico.** Martín, Abraham; et al. 2009. Depressed glucose consumption at reperfusion following brain ischemia does not correlate with mitochondrial dysfunction and development of infarction: an in vivo positron emission tomography study *Current neurovascular research*. 6-2, pp.82—88-82—88. ISSN 1567-2026.
- 41 Artículo científico.** Martín, Abraham; et al. 2009. Transient benefits but lack of protection by sodium pyruvate after 2-hour middle cerebral artery occlusion in the rat *Brain research*. 1272, pp.45—51-45—51. ISSN 0006-8993.
- 42 Artículo científico.** Rojas, Santiago; et al. 2007. Imaging brain inflammation with [(11)C]PK11195 by PET and induction of the peripheral-type benzodiazepine receptor after transient focal ischemia in rats *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*. 27-12, pp.1975—1986-1975—1986. ISSN 0271-678X.
- 43 Artículo científico.** Jiménez-Altayó, Francesc; et al. 2007. Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats *American journal of physiology. Heart and circulatory physiology*. 293-1, pp.H628—35-H628—35. ISSN 0363-6135.
- 44 Artículo científico.** Rojas, Santiago; et al. 2006. Modest MRI signal intensity changes precede delayed cortical necrosis after transient focal ischemia in the rat *Stroke*. 37-6, pp.1525—1532-1525—1532. ISSN 0039-2499.
- 45 Artículo científico.** Martín, Abraham; et al. 2006. Why does acute hyperglycemia worsen the outcome of transient focal cerebral ischemia? Role of corticosteroids, inflammation, and protein O-glycosylation *Stroke*. 37-5, pp.1288—1295-1288—1295. ISSN 0039-2499.
- 46 Artículo científico.** Justicia, Carles; et al. 2006. Anti-VCAM-1 antibodies did not protect against ischemic damage either in rats or in mice *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*. 26-3, pp.421—432-421—432. ISSN 0271-678X.
- 47 Artículo científico.** Quintana, Albert; et al. 2005. Differential role of tumor necrosis factor receptors in mouse brain inflammatory responses in cryolesion brain injury *Journal of neuroscience research*. 82-5, pp.701—716-701—716. ISSN 0360-4012.
- 48 Artículo científico.** Penkowa, Milena; et al. 2003. Astrocyte-targeted expression of interleukin-6 protects the central nervous system during neuroglial degeneration induced by 6-aminonicotinamide *Journal of neuroscience research*. 73-4, pp.481—496-481—496. ISSN 0360-4012.

C.2. Proyectos

- 1** PET study of the physiopathological processes implied in the secondary neuronal loss in intracerebral hemorrhage and focal brain ischemia. (Instituto de Alta Tecnología). 72.000 €.
- 2** Phenotypical Characterization of Animal Models for Neuropsychiatric Disorders Related to Compulsive Behavior. Work Package 6. Unión Europea. (Instituto de Alta Tecnología). 406.500 €.

C.3. Contratos

C.4. Patentes