

## Año 2017

---

### Artículos.

- Acloque H., Ocana OH., Abad D., Stem CD., Nieto MA.(2017) Snail2 and Zeb2 repress P-cadherin to define embryonic territories in the chick embryo. **Development** 144(4):649-656
- Aiello NM., Brabertz T., Kang Y., Nieto MA., Weinberg RA., Stanger BZ.(2017) Upholding a role for EMT in pancreatic cancer metastasis. **Nature** 547(7661):E7-E8
- Albuixech-Cresp B., Lopez-Blanch L., Burguera D., Maeso I., Sanchez-Arrones L., Moreno-Bravo JA., Somorjai I., Pascual-Anaya J., Puelles E., Bovolenta P., Garcia-Fernandez J., Puelles L., Irimia M., Ferran JL.(2017) Molecular regionalization of the developing amphioxus neural tube challenges major partitions of the vertebrate brain. **PLoS. Biol.** 15(4):-e2001573
- Alpizar YA., Boonen B., Sanchez A., Jung C., Lopez-Requena A., Naert R., Steelant B., Luyts K., Plata C., De Vooght V., Vanoorbeek JAJ., Meseguer VM., Voets T., Alvarez JL., Hellings PW., Hoet PHM., Nemery B., Valverde MA., Talavera K.(2017) TRPV4 activation triggers protective responses to bacterial lipopolysaccharides in airway epithelial cells. **Nat. Commun.** 8(1):Art.-1059
- Bale MR., Bitzidou M., Pitas A., Brebner LS., Khazim L., Anagnou ST., Stevenson CD., Maravall M.(2017) Learning and recognition of tactile temporal sequences by mice and humans. **eLife** 6:e-27333
- Ballesta B., Gonzalez H., Martin V., Ballesta JJ.(2017) Fatal ruxolitinib-related JC virus meningitis. **J. Neurovirol.** 23(5):783-785
- Barco A., Knafo Sh.(2017) Editorial on the Special Issue: Molecules and Cognition. (Editorial) **Neuroscience** (in press)
- Bartolini G., Sanchez-Alcañiz JA., Osorio C., Valiente M., Garcia-Frigola C., Marin O.(2017) Neuregulin 3 Mediates Cortical Plate Invasion and Laminar Allocation of GABAergic Interneurons. **Cell Reports** 18:1157-1170
- Belmonte C., Nichols JJ., Cox SM., Brock JA., Begley CG., Bereiter DA., Dartt DA., Galor A., Hamrah P., Ivanusic J.J., Jacobs, D.S.I., McNamara NA., Rosenblatt MI., Stapleton F., Wolffsohn JS.(2017) TFOS DEWS II pain and sensation report. **Ocul. Surf.** 15(3):404-437
- Blanco-Gandia MC., Aracil-Fernandez A., Montagud-Romero S., Aguilar MA., Manzanares J., Miñarro J., Rodriguez-Arias M.(2017) Changes in gene expression and sensitivity of cocaine reward produced by a continuous fat diet. **Psychopharmacology** 234(15):2337-2352
- Blanco-Gandia MC., Cantacorps L., Aracil-Fernandez A., Montagud-Romero S., Aguilar MA., Manzanares J., Valverde O., Miñarro J., Rodriguez-Arias M.(2017) Effects of bingeing on fat during adolescence on the reinforcing effects of cocaine in adult male mice. **Neuropharmacology** 113(Pt A):31-44
- Blanco-Gandia MC., Ledesma JC., Aracil-Fernandez A., Navarrete F., Montagud-Romero S., Aguilar MA., Manzanares J., Miñarro J., Rodriguez-Arias M.(2017) The rewarding effects of ethanol are modulated by binge eating of a high-fat diet during adolescence. **Neuropharmacology** 121:219-230
- Brotons-Mas JR., Schaffelhofer S., Guger C., O'Mara SM., Sanchez-Vives MV.(2017) Heterogeneous spatial representation by different subpopulations of neurons in the subiculum. **Neuroscience** 343:174-189

## Año 2017

---

- Catala-Lopez F., Hutton B., Driver JA., Page MJ., Ridao M., Valderas JM., Alonso-Arroyo A., Fores-Martos J., Martinez S., Genova-Maleras R., Macias-Saint-Gerons D., Crespo-Facorro B., Vieta E., Valencia A., Tabares-Seisdedos R.(2017) Cancer and central nervous system disorders: protocol for an umbrella review of systematic reviews and updated meta-analyses of observational studies. **Syst Rev.** 6(1):69-76
- Comune M., Rai A., Chereddy KK., Pinto S., Aday S., Ferreira AF., Zonari A., Blersch J., Cunha R., Rodrigues R., Lerma J., Simoes PN., , Preat V., Ferreira L.(2017) Antimicrobial peptide-gold nanoscale therapeutic formulation with high skin regenerative potential. **J. Control. Release** 262:58-71
- Craig JP., Nelson JD., Azar DT., Belmonte C., Bron AJ., Chaucha SK., de Paiva CS., Gomes JAP., Hammitt KM., Jones L., Nichols JJ., Nichols KK., Novack GD., Stapelton FJ., Willcox MDP., Wolffsohn JS., Sullivan DA.(2017) TFOS DEWS II Report Executive Summary. **Ocul. Surf.** 15(4):802-812
- Darios FD., Jorgacevski J., Flasker A., Zorec R., Garcia-Martinez V., Villanueva J., Gutierrez LM., Leese C., Bal M., Nosyreva, E., Kavalali, ET., Davletov B.(2017) Sphingomimetic multiple sclerosis drug FTY720 activates vesicular synaptobrevin and augments neuroendocrine secretion. **Sci Rep** 7(1):Art.-5958
- Del Pino I., Brotons-Mas JR., Marques-Smith A., Marighetto A., Frick A., Marin O., Rico B.(2017) Abnormal wiring of CCK+ basket cells disrupts spatial information coding. **Nat. Neurosci.** 20(6):784-792
- Del Toro D., Ruff T., Cederfjall E., Villalba A., Seyit-Bremer G., Borrell V., Klein R.(2017) Regulation of Cerebral Cortex Folding by Controlling Neuronal Migration via FLRT Adhesion Molecules. **Cell** 169(4):621-635
- Estiar MA., Esmaeli R., Zare AA., Farahmand L., Fazilaty H., Zekri A., Jafarbeik-Iravani N., Majidzadeh-A K.(2017) High expression of CEACAM19, a new member of carcinoembryonic antigen gene family, in patients with breast cancer. **Clin. Exper. Med.** 17(4):547-553
- Estiar MA., Zare AA., Esmaeli R., Farahmand L., Fazilaty H., Jafari D., Samadi T., Majidzadeh-A K.(2017) Clinical significance of NDRG3 in patients with breast cancer. **Future Oncol.** 13(11):961-969
- Everss-Villalba E., Melgarejo-Meseguer FM., Blanco-Velasco M., Gimeno-Blane FJ., Sala-Pla S., Rojo-Alvarez JL., Garcia-Alberola A.(2017) Noise maps for quantitative and clinical severity towards long-term ECG monitoring. **Sensors** 17(11):Art.-2448
- Florio M., Borrell V., Huttner WB.(2017) Human-specific genomic signatures of neocortical expansion. **Curr. Opin. Neurobiol.** 42:33-44
- Galvao-Ferreira P., Lipinski M., Santos F., Barco A., Costa RM.(2017) Skill Learning Modulates RNA Pol II Poising at Immediate Early Genes in the Adult Striatum. **eNeuro** 4(2) pii::0074-17.2017
- Garcia-Ayllon MS., Botella-Lopez A., Cuchillo-Ibañez I., Rabano A., Andreasen N., Blennow K., Avila J., Saez-Valero J.(2017) HNK-1 Carrier Glycoproteins Are Decreased in the Alzheimer's Disease Brain. **Mol. Neurobiol.** 54(1):188-199
- Garcia-Ayllon MS., Lopez-Font I., Boix CP., Fortea J., Sanchez-Valle R., Lleo A., Molinuevo JL., Zetterberg H., Blennow K., Saez-Valero J.(2017) C-Terminal fragments of the amyloid precursor protein in cerebrospinal fluid as potential biomarkers for Alzheimer disease. **Sci Rep** 7:Art.2477-
- Genzel L., Rossato JI., Jacobse J., Grieves RM., Spooner PA., Battaglia FP., Fernandez G., Morris RGM.(2017) The Yin and Yang of Memory Consolidation: Hippocampal and Neocortical. **PLoS. Biol.** 15(1):e-2000531

## Año 2017

---

- Gezelius H., Lopez-Bendito G.(2017) Thalamic neuronal specification and early circuit formation. **Dev. Neurobiol.** 77(7):830-843
- Gezelius H., Moreno-Juan V., Mezzera C., Thakurela S., Rodriguez-Malmierca LM., Pistolic J., Benes V., Tiware VK., Lopez-Bendito G.(2017) Genetic Labeling of Nuclei-Specific Thalamocortical Neurons Reveals Putative Sensory-Modality Specific Genes. **Cereb. Cortex** 27(11):5054-5069
- Gimenez-Molina Y., Villanueva J., Nanclares C., Lopez-Font I., Viniegra S., Frances MM., Gandia L., Gil A., Gutierrez LM.(2017) The differential organization of F-actin alters the distribution of organelles in cultured when compared to native chromaffin cells. **Front. Cell. Neurosci.** 11:Art.-135
- Gonzalez-Gonzalez O., Bech F., Gallar J., Merayo-Lloves J., Belmonte C.(2017) Functional properties of sensory nerve terminals of the mouse cornea. **Invest. Ophthalmol. Vis. Sci.** 58(1):404-415
- Herrera C., Jimenez-Cervantes C., Sanchez-Laorden B., Garcia-Borron JC.(2017) Functional interplay between secreted ligands and receptors in melanoma. **Semin. Cell Dev. Biol.** in press:-
- Herrera E., Erskine L., Morenilla-Palao C.(2017) Guidance of retinal axons in mammals. **Semin. Cell Dev. Biol.** in press:-
- Iwase S., Berube NG., Zhou Z., Nadif Kasri N., Battaglioli E., Scandaglia M., Barco A.(2017) Epigenetic etiology of intellectual disability. **J. Neurosci.** 37(45):10773-10782
- Jurado-Barba R., Duque A., Lopez-Trabada JR., Martinez-Gras I., Garcia-Gutierrez MS., Navarrete F., Lopez-Muñoz F., Jimenez-Arriero MA., Avila C., Manzanares J., Rubio G.(2017) The Modulation of the Startle Reflex as Predictor of Alcohol Use Disorders in a Sample of Heavy Drinkers: A 4-Year Follow-Up Study. **Alcohol Clin Exp Res** 41(6):1212-1219
- Krakauer JW., Ghazansfar AA., Gomez-Marin A., Maciver MA., Poeppel D.(2017) Neuroscience Needs Behavior: Correcting a Reductionist Bias. **Neuron** 93(3):480-490
- Lopez-Font I., Boix CP., Zetterberg H., Blennow K., Saez-Valero J., Calero M.(2017) Alterations in the Balance of Amyloid- $\beta$  Protein Precursor Species in the Cerebrospinal Fluid of Alzheimer's Disease Patients. **Journal Alzheimer Disease.** 57(4):1281-1291
- Lopez-Gonzalez MJ., Luis E., Fajardo O., Meseguer V., Gers-Barlag K., Niñerola S., Viana F.(2017) TRPA1 Channels Mediate Human Gingival Fibroblast Response to Phenytoin. **J. Dent. Res.** 96(7):832-839
- Lopez-Madrona VJ., Matias FS., Pereda E., Canals S., Mirasso CR.(2017) On the role of the entorhinal cortex in the effective connectivity of the hippocampal formation. **Chaos** 27(4):Art.-047401
- Martinez-Garcia M., Martinez LM., Malo J.(2017) Topographic Independent Component Analysis reveals random scrambling of orientation in visual space. **PLoS ONE** 12(6):Art.-e0178345
- Martini FJ., Molano-Mazon M., Maravall M.(2017) Interspersed Distribution of Selectivity to Kinematic Stimulus Features in Supragranular Layers of Mouse Barrel Cortex. **Cereb. Cortex** 27(7):3782-3789

## Año 2017

---

- Masuoka T., Gallar J., Belmonte C.(2017) Inhibitory Effect of Amitriptyline on the Impulse Activity of Cold Thermoreceptor Terminals of Intact and Tear-Deficient Guinea Pig Corneas. **J. Ocular Pharmacol. Ther.** in press:-
- Morales-Muñoz I., Martínez-Gras I., Ponce G., De La Cruz J., Lora D., Rodríguez-Jiménez R., Jurado-Barba R., Navarrete F., García-Gutiérrez MS., Manzanares J., Rubio G.(2017) Psychological symptomatology and impaired prepulse inhibition of the startle reflex are associated with cannabis-induced psychosis. **J. Psychopharmacol** 31(8):1035-1045
- Moreno-Del-Val G., Muñoz-Robledano P.(2017) Revitalizing genetically-modified mouse strains using frozen-thawed sperm after up to 192?h of refrigerated epididymis transportation. **Lab Anim.** 51(5):526-529
- Moreno-Juan V., Filipchuk A., Anton-Bolaños N., Mezzera C., Gezelius H., Andres B., Rodriguez-Malmierca L., Susin R., Schaad O., Iwasato T., Schule R., Rutlin M., Nelson S., Ducret S., Valdeolmillos M., Rijli FM., Lopez-Bendito G.(2017) Prenatal thalamic waves regulate cortical area size prior to sensory processing. **Nat. Commun.** 8:Art-14172
- Murcia-Belmonte V., Exposito G., Herrera E.(2017) Time-lapse imaging and cell tracking of migrating cells in slices and flattened telencephalic vesicles. **Curr Protoc in Neuroscience** 2017:3.31.1-3.31.12
- Navarrete F., García-Gutiérrez MS., Laborda J., Manzanares J.(2017) Deletion of Dlk2 increases the vulnerability to anxiety-like behaviors and impairs the anxiolytic action of alprazolam. **Psychoneuroendocrinology** 85:134-141
- Navarro-Mateu F., Salmerón D., Vilagut G., Tormo MJ., Ruiz-Merino G., Escamez T., Judez J., Martínez S., Koenen KC., Navarro C., Alonso J., Kessler RC.(2017) Post-Traumatic Stress Disorder and other mental disorders in the general population after Lorca's earthquakes, 2011 (Murcia, Spain): A cross-sectional study. **PLoS ONE** 12(7):e-0179690
- Negrete R., García Gutierrez MS., Manzanares J., Maldonado R.(2017) Involvement of the dynorphin/KOR system on the nociceptive, emotional and cognitive manifestations of joint pain in mice. **Neuropharmacology** 116:315-327
- Nieto MA.(2017) Context-specific roles of EMT programmes in cancer cell dissemination . (Editorial Material) **Nat. Cell Biol.** 19(5):416-418
- Ocaña OH., Coskun H., Mingüillon C., Murawala P., Tanaka EM., Galceran J., Muñoz-Chapuli R., Nieto MA.(2017) A right-handed signalling pathway drives heart looping in vertebrates. **Nature** 549:86-90
- Palazon-Bru A., Folgado-De La Rosa DM., Cortes-Castell E., Lopez-Cascales MT., Gil-Guillén VF.(2017) Sample size calculation to externally validate scoring systems based on logistic regression models. **PLoS ONE** 12(5):e-0176726
- Pardo L., Valor LM., Eraso-Pichot A., Barco A., Golbano A., Hardingham GE., Masgrau R., Galea E.(2017) CREB Regulates Distinct Adaptive Transcriptional Programs in Astrocytes and Neurons. **Sci Rep** 7(1):-6390
- Pecoraro V., Sardone LM., Chisari M., Licata F., Li Volsi G., Perciavalle V., Ciranna L., Costa L.(2017) A subnanomolar concentration of Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP) pre-synaptically modulates glutamatergic transmission in the rat hippocampus acting through acetylcholine. **Neuroscience** 340:551-562
- Perenyi K., Dienes L., Kornafeld A., Kovacs B., Kiss HJ., Szepessy Z., Nagy ZZ., Barsi A., Acosta MC., Gallar J., Kovacs I.(2017) The effect of tear supplementation with 0.15% preservative-free zinc-hyaluronate on ocular surface sensations in patients with dry eye. **J. Ocular Pharmacol. Ther.** 33(6):487-492

## Año 2017

---

- Pitas A., Albarracín AL., Molano-Mazón M., Maravall M.(2017) Variable temporal integration of stimulus patterns in the mouse barrel cortex. **Cereb. Cortex** 27(3):1758-1764
- Reillo I., de Juan Romero C., Cardenas A., Clasca F., Martínez-Martínez MA., Borrell V.(2017) A Complex Code of Extrinsic Influences on Cortical Progenitor Cells of Higher Mammals. **Cereb. Cortex** in press:-
- Rives-Quieto N., Franco M., de Torres-Jurado A., Carmena A.(2017) Synergism between canoe and scribble mutations causes tumor-like overgrowth via Ras activation in neural stem cells and epithelia. **Development** 144:2570-2583
- Ruiz-Reig N., Andres B., Huilgol D., Grove EA., Tissir F., Tole S., Theil T., Herrera E., Fairen A.(2017) Lateral Thalamic Eminence: A Novel Origin for mGluR1/Lot Cells. **Cereb. Cortex** 27(5):2841-2856
- Sanchez E., Ferreiroa R., Arias A., Martinez LM.(2017) Image Sharpness and Contrast Tuning in the Early Visual Pathway. **Int. J. Neural Syst.** 27(8):Art.-1750045
- Scandaglia M., Lopez-Atalaya JP., Medrano-Fernandez A., Lopez-Cascales MT., del Blanco B., Lipinski M., Benito E., Olivares R., Iwase S., Shi Y., Barco A.(2017) Loss of Kdm5c causes spurious transcription and prevents the fine-tuning of activity-regulated enhancers in neurons. **Cell Reports** 21:47-59
- Scott R., Sanchez-Aguilera A., van Elst K., Lim L., Dehorter N., Bae SE., Bartolini G., Peles E., Kas MJH., Bruining H., MArin O.(2017) Loss of Cntnap2 Causes Axonal Excitability Deficits, Developmental Delay in Cortical Myelination, and Abnormal Stereotyped Motor Behavior. **Cereb. Cortex** (in press)
- Sempere-Ferrandez A., Andres-Bayon B., Geijo-Barrientos E.(2017) Callosal responses in a retrosplenial column. **Brain Struct Funct** (in press)
- Siegle JH., Lopez AC., Patel YA., Abramov K., Ohayon S., Voigts J.(2017) Open Ephys: An open-source, plugin-based platform for multichannel electrophysiology. **J. Neural Eng.** 14(4):Art-045003
- Sogorb-Esteve A., Garcia-Ayllón MS., Llansola M., Felipo V., Blennow K., Saez-Valero J.(2017) Inhibition of  $\gamma$ -Secretase Leads to an Increase in Presenilin-1. **Mol. Neurobiol.** in press:-  
Tiveron MC., Beclin C., Murgan S., Wild S., Angelova A., Marc J., Core N., de Chevigny A., Herrera E., Bosio A., Bertrand V.,
- Cremer H.(2017) Zic-proteins are repressors of dopaminergic forebrain fate in mice and *C. Elegans*. **J. Neurosci.** 37(44):10611-10623
- Tomasoni R., Morini R., Lopez-Atalaya JP., Corradini I., Canzi A., Rasile M., Mantovani C., Pozzi D., Garlanda C., Mantovani A., Menna E., Barco A., Matteoli M.(2017) Lack of IL-1R8 in neurons causes hyperactivation of IL-1 receptor pathway and induces MECP2-dependent synaptic defects. **eLife** 6:pii-e21735
- Tomczak AP., Fernandez-Trillo J., Bharill S., Papp F., Panyi G., Stuhmer W., Isacoff EY., Pardo LA.(2017) A new mechanism of voltage-dependent gating exposed by KV10.1 channels interrupted between voltage sensor and pore. **J. Gen. Physiol.** 149(5):577-593
- Valdor R., Garcia-Bernal D., Bueno C., Rodenas M., Moraleda JM., Macian F., Martinez S.(2017) Glioblastoma progression is assisted by induction of immunosuppressive function of pericytes through interaction with tumor cells. **Oncotarget** 8(40):68614-68626
- Xu C., Yu L., Hou J., Jackson RJ., Wang H., Huang C., Liu T., Wang Q., Zou X., Morris RG., Spires-Jones TL., Yang Z., Yin Z., Xu Y., Chen G.(2017) Conditional deletion of PDK1 in the forebrain causes neuron loss and increased apoptosis during cortical development. **Front. Cell. Neurosci.** 11:Art.-330

## Año 2017

---

- Ye X., Brabertz T., Kang Y., Longmore GD., Nieto MA., Stanger BZ., Yang J., Weinberg Ra.(2017) Upholding a role for EMT in breast cancer metastasis. **Nature** 547(7661):E1-E6
- Zago M., Matic A., Flash T., Gomez-Marin A., Lacquaniti F.(2017) The speed-curvature power law of movements: a reappraisal. **Exp. Brain Res.** in press:-
- Zamorano C., Fernandez J., Storm DR., Carne X., Sindreu C.(2017) Memory retrieval re-activates Erk1/2 signaling in the same set of CA1 neurons recruited during conditioning. **Neuroscience** (in press)

73

### Capítulos de Libros.

- Molano-Mazon M., Valiño-Perez AJ., Sala S., Martinez-Garcia M., Malo J., Sommer FT., Hirsch JA., Martinez LM.(2017) The Brain's Camera. Optimal Algorithms for Wiring the Eye to the Brain Shape How We See. Doi: 10.1007/978-3-319-46669-9\_15 In "**Biosystems and Biorobotics.**", Ed.: Springer International Publishing. Cap 15: pp 81-83
- Moya J., Torres D., Moratal D., Canals S.(2017) How Do Interconnected Neuronal Networks Adjust to External Stimulation: Parametric Studies of DBS-FMRI. doi: 10.1007/978-3-319-46669-9\_16 In "**Biosystems and Biorobotics.**", Ed.: Springer International Publishing .Cap 15: pp 85-89