

Publicaciones IN año 2008



INSTITUTO DE NEUROCIENCIAS
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Artículos.

- Acloque H., Thiery JP., Nieto MA.(2008) The Physiology and Pathology of the Epithelial to Mesenchymal Transition. *EMBO Rep.* 9:322-326 (F.I.: 7.45)
- Acloque H., Wilkinson DG., Nieto MA.(2008) Chapter 9 in situ hybridization analysis of chick embryos in whole-mount and tissue sections. *Method Cell Biol* 87:169-185 (F.I.: 1.582)
- Barco A., Lopez de Armentia M., Alarcon JM.(2008) Synapse-specific stabilization of plasticity processes: The synaptic tagging and capture hypothesis revisited ten years later. *Neurosci. Biobehav. Rev.* 32(4):831-851 (F.I.: 8.147)
- Barrallo-Gimeno A., Nieto MA.(2008) Riding the right wave: would the real neural crest please stand up?. *Evol. Dev.* 10:509-510 (F.I.: 3.733)
- Basson MA., Echevarria D., Ahn CP., Sudarov AM., Joyner AL., Mason IJ., Martinez S., Martin GR.(2008) Specific regions within the embryonic midbrain and cerebellum require different levels of FGF signaling during development. *Development* 135(5):889-898 (F.I.: 7.293)
- Belmonte C., Viana F.(2008) Molecular and cellular limits to somatosensory specificity. *Mol Pain* 4:14-14 (F.I.: 4.127)
- Botella-Lopez A., De Madaria E., Jover R., Bataller R., Sancho-Bru P., Gomis C., Compañ A., Perez-Mateo M., Martinez S., Saez-Valero J.(2008) Reelin is overexpressed in the liver and plasma of bile duct ligated rats and its levels and glycosylation are altered in plasma of human with cirrhosis. *Int. J. Biochem. Cell Biol.* 40:766-775 (F.I.: 4.009)
- Boutet A., Nieto MA.(2008) Snail genes and renal diseases: what we learn from organogenesis. *Med Sci (Paris)* 24:238-240 (F.I.: 0)
- Cano A., Nieto MA.(2008) Non-coding RNAs take centre stage in epithelial to mesenchymal transition. *Trends Cell Biol.* 18:357-359 (F.I.: 13.527)
- Carmena A.(2008) Signaling networks during development: The case of asymmetric cell division in the Drosophila nervous system. *Dev. Biol.* 321:1-17 (F.I.: 4.714)
- Castelan F., Castillo M., Mulet J., Sala S., Sala F., Criado M.(2008) Molecular characterization and localization of the RIC-3 protein, an effector of nicotinic acetylcholine receptor expression. *J. Neurochem.* 105:617-627 (F.I.: 4.451)
- Compte A., Reig R., Fernandez-Dascalzo V., Harvey MA., Puccini GD., Sanchez-Vives MV.(2008) Spontaneous High-Frequency (10-80 Hz) Oscillations during Up States in the Cerebral Cortex In Vitro. *J. Neurosci.* 28:13828-13838 (F.I.: 7.49)
- Criado M., Mulet J., Castillo M., Aldea M., Sala S., Sala F.(2008) Interactions between loop 5 and beta-strand beta' are involved in alpha7 nicotinic acetylcholine receptors channel gating. *J. Neurochem.* 104(3):719-730 (F.I.: 4.451)
- De Diego AMG., Tapia L., Alvarez RM., Mosquera M., Cortés L., López I., Gutierrez LM., Gandía L., García AG. (2008) A low nicotine concentration augments vesicle motion and exocytosis triggered by K⁺ depolarization in chromaffin cells. *Eur. J. Pharmacol.* 598:81-86 (F.I.: 2.376)
- Di Meglio T., Nguyen-Ba-Charvet KT., Tessier-Lavigne M., Sotelo C., Chédotal A.(2008) Molecular mechanisms controlling midline crossing by precerebellar neurons. *J. Neurosci.* 28(25):6285-6294 (F.I.: 7.49)
- Diaz-Quesada M., Maravall M.(2008) Intrinsic mechanisms for adaptive gain rescaling in barrel cortex. *J. Neurosci.* 28(3):696-710 (F.I.: 7.49)
- Dominguez M., Berger F.(2008) Chromatin and the cell cycle meet in Madrid. *Development* 135(21):3475-3480 (F.I.: 7.293)
- Fajardo O., Meseguer V., Belmonte C., Viana F.(2008) TRPA1 channels mediate cold temperature sensing in mammalian vagal sensory neurons: Pharmacological and genetic evidence. *J. Neurosci.* 28(31):7863-7875 (F.I.: 7.49)

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Fajardo O., Meseguer V., Belmonte C., Viana F.(2008) TRPA1 channels: Novel targets of 1,4-dihydropyridines.
Channels 2(6):0-0 (F.I.: 0)

Garcia-Ayllon MS., Cauil O., Silveyra MX., Rodrigo R., Gomis C., Compañ AF., Jover R., Perez-Mateo M., Martinez S., Felipo V., Saez-Valero J.(2008) Bran Cholinergic impairment in liver failure. Brain 131:2946-2956 (F.I.: 8.568)

Garcia-Ayllon MS., Silveyra MX., Saez-Valero J.(2008) Association between acetylcholinesterase and β -amyloid peptide in Alzheimer's cerebrospinal fluid. Chem.-Biol. Interact. 175(1-3):209-215 (F.I.: 3.09)

Garcia-Frigola C., Carreres MI., Vegar C., Mason C., Herrera E.(2008) Zic2 promotes axonal divergence at the optic chiasm midline by EphB1-dependent and -independent mechanisms. Development 135(10):1833-1841 (F.I.: 7.293)

Gil-Sanz C., Delgado-Garcia JM., Fairen A., Gruart A.(2008) Involvement of the mGluR1 receptor in hippocampal synaptic plasticity and associative learning in behaving mice. Cereb. Cortex 18(7):1653-1663 (F.I.: 6.519)

Gomis A., Soriano S., Belmonte C., Viana F.(2008) Hypoosmotic- and pressure-induced membrane stretch activate TRPC5 channels. J. Physiol.-London 586(23):5633-5649 (F.I.: 4.58)

Hammerle B., Elizalde C., Tejedor FJ.(2008) The Spatio-Temporal and subcellular Expression of the Candidate Down Syndrome Gene Mnbp/Dyrk1A in the Developing Mouse Brain Suggests Distinct Sequential Roles in Neuronal Development. Eur. J. Neurosci. 27:1061-1074 (F.I.: 3.673)

Heitzmann D., Derand R., Jungbauer S., Bandulik S., Sterner C., Schweda F., Elwakil A., Lalli E., Guy N., Mengual R., Reichold M., Tegtmeier I., Bendahhou S., Gomez-Sanchez CE., Aller MI., Wisden W., Weber A., Lesage F., Warth R., Barhanin J.(2008) Invalidation of TASK1 potassium channels disrupts adrenal gland zonation and mineralocorticoid homeostasis. Embo J. 27(1):179-187 (F.I.: 8.662)

Herrera E., Garcia-Frigola C.(2008) Genetics and development of the optic chiasm. Front. Biosci. 13:1646-1653 (F.I.: 2.989)

Hoareau C., Borrell V., Soriano E., Krebs MO., Prochiantz A., Allinquant B.(2008) Amyloid precursor protein cytoplasmic domain antagonizes reelin neurite outgrowth inhibition of hippocampal neurons. Neurobiol. Aging 29(4):542-553 (F.I.: 5.607)

Korhonen L., Hansson I., Maugras C., Wehrle R., Kairisalo M., Borgkvist A., Jokitalo E., Sotelo C., Fisone G., Dusart I., Lindholm D.(2008) Expression of X-chromosome linked inhibitor of apoptosis protein in mature Purkinje cells and in retinal bipolar cells in transgenic mice induces neurodegeneration. Neuroscience 156(3):515-526 (F.I.: 3.352)

Linden AM., Aller MI., Leppa E., Rosenberg PH., Wisden W., Korpi ER.(2008) K⁺ channel TASK-1 knockout mice show enhanced sensitivities to ataxic and hypnotic effects of GABA(A) receptor ligands. J. Pharmacol. Exp. Ther. 327(1):277-286 (F.I.: 4.003)

Lopez-Bendito G., Sanchez-Alcañiz JA., Pla R., Borrell V., Pico E., Valdeolmillos M., Marin O.(2008) Chemokine Signaling Controls Intracortical Migration and Final Distribution of GABAergic Interneurons. J. Neurosci. 28(7):1613-1624 (F.I.: 7.49)

Maenz B., Hekerman P., Vela EM., Galceran J., Becker W.(2008) Characterization of the human DYRK1A promoter and its regulation by the transcription factor E2F1. BMC Mol. Biol. 9:30- (F.I.: 3.371)

Martinez S.(2008) Early mammillary pouch specification in the course of prechordal ventralization of the forebrain tegmentum. Dev. Biol. 320:366-377 (F.I.: 4.714)

Meseguer V., Karashima Y., D'Hoedt D., Talavera K., Viana F., Nilius B., Voets T.(2008) Transient receptor potential channels in sensory neurons as novel targets of the antimycotic agent clotrimazole. J. Neurosci. 28:576-586 (F.I.: 7.49)

Morreale de Escobar G., Ares S., Berbel P., Obregon MJ., Escobar del Rey F.(2008) The changing role of maternal thyroid hormone in fetal brain development. Semin. Perinatol. 32(6):380-386 (F.I.: 2.477)

Navarrete F., Perez-Ortiz JM., Femenia T., Garcia-Gutierrez MS., Garcia-Paya ME., Leiva C., Manzanares J.(2008) Métodos de evaluación de trastornos cognitivos en modelos animales. Rev. Neurologia 47(3):137-145 (F.I.: 0.736)

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Nóbrega-Pereira S., Kessaris N., Du T., Kimura S., Anderson SA., Marin O.(2008) Postmitotic Nkx2-1 controls the migration of telencephalic interneurons by direct repression of guidance receptors. *Neuron* 59(5):733-745 (F.I.: 13.41)

Nowak LG., Sanchez-Vives MV., McCormick DA.(2008) Lack of orientation and direction selectivity in a subgroup of fast spiking inhibitory interneurons: cellular and synaptic mechanisms and comparison with other electrophysiological cell types. *Cereb. Cortex* 18(5):1058-1078 (F.I.: 6.519)

Ñeco P., Fernandez-Peruchena C., Navas S., Lindau M., Gutierrez LM., Alvarez de Toledo G., Alés E.(2008) Myosin II contributes to fusion pore expansion during exocytosis. *J. Biol. Chem.* 283:10949-10957 (F.I.: 5.581)

Ocaña O., Nieto MA.(2008) A new regulatory loop in cancer-cell invasion. *EMBO Rep.* 9:521-522 (F.I.: 7.45)

Oliva JM., Ortiz S., Perez-Rial S., Manzanares J.(2008) Time course effects of acute ethanol administration on opioid and cannabinoid function in selected regions of the rat brain. *Eur. Neuropsychopharmacol.* 18:373-382 (F.I.: 4.43)

Palomero T., Dominguez M., Ferrando AA.(2008) The role of the PTEN/AKT Pathway in NOTCH1-induced leukemia. *Cell Cycle* 7(8):965-970 (F.I.: 3.314)

Peralta S., Gómez Y., González-Gaitan MA., Moya F., Vinós J.(2008) Notch down-regulation by endocytosis is essential for pigment cell determination and survival in the Drosophila retina, *Mech. Dev.* doi10.1016/j.mod2008-10 (F.I.: 3.518)

Petersen RS., Brambilla M., Bale MR., Alenda A., Panzeri S., Montemurro M., Maravall M.(2008) Diverse and temporally precise kinetic feature selectivity in the VPm thalamic nucleus. *Neuron* 60:890-903 (F.I.: 13.41)

Petilla Interneuron Nomenclature Group, Ascoli GA, Alonso-Nanclares L, Anderson SA, Barrionuevo G, Benavides-Piccione R, Burkhalter A, Buzsáki G, Cauli B, Defelipe J, Fairén A, Feldmeyer D, Fishell G, Fregnac Y, Freund TF, Gard, Goldberg JH, Helmstaedter M, Hestrin S, Karube F, , Lambolez B, Lewis DA,, Marín O., Markram H, Muñoz A, Packer A, Petersen CC... (2008) Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. *Nat. Rev. Neurosci.* 9(7):557-568 (F.I.: 24.52)

Pombero A., Martinez S.(2008) Telencephalic morphogenesis during the process of neurulation. An experimental study using quail-chick chimeras. *J. Comp. Neurol.* 512:784-797 (F.I.: 3.915)

Racz I., Nadal X., Alferink J., Baños JE., Rehnelt J., Martin M., Pintado B., Gutierrez-Adan A., Sanguino E., Manzanares J., Bellora N., Zimmer A., Maldonado R.(2008) Interferon-? is a critical modulator of CB2 cannabinoid receptor signaling during neuropathic pain. *J. Neurosci.* 28(46):12136-12145 (F.I.: 7.49)

Racz I., Nadal X., Alferink J., Baños JE., Rehnelt J., Martin M., Pintado B., Gutierrez-Adan A., Sanguino E., Manzanares J., Zimmer A., Maldonado R.(2008) Crucial role of CB2 cannabinoid receptor in the regulation of central immune responses during neuropathic pain. *J. Neurosci.* 28(46):12125-12136 (F.I.: 7.49)

Rubio G., Manzanares J., Jimenez M., Rodriguez-Jimenez R., Martinez I., Iribarren MM., Jimenez-Arriero MA., Ponce G., Palomo T.(2008) The Use of Cocaine by Heavy Drinkers Increases Vulnerability to Developing Alcohol Dependence: A 4-Year Follow-Up Study. *J. Clin. Psychiatry.* 69(4):563-570 (F.I.: 5.06)

Sala F., Nistri A., Criado M.(2008) Nicotinic Acetylcholine Receptors of Adrenal Chromaffin Cells. *Acta Physiol.* 192(2):203-212 (F.I.: 1.602)

Sanchez-Vives MV., Descalzo VF., Reig R., Figueroa NA., Compte A., Gallego R.(2008) Rhythmic Spontaneous Activity in the Piriform Cortex. *Cereb. Cortex* 18(5):1179-1192 (F.I.: 6.519)

Silveyra MX., Evin G., Montenegro MF., Vidal CJ., Martinez S., Culvenor J., Sáez-Valero J.(2008) Presenilin-1 interacts with acetylcholinesterase and alters its enzymatic activity and glycosylation. *Mol. Cell. Biol.* 28:2908-2919 (F.I.: 6.42)

Sitz JH., Baumgartel K., Hammerle B., Papadopoulos C., Hekerman P., Tejedor FJ., Becker W., Lutz B.(2008) The Down Syndrome Candidate Kinase DYRK1A Phosphorylates the Neurodegeneration-Related Septin SEPT4. *Neuroscience* 157(3):596-605 (F.I.: 3.352)

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Sotelo C.(2008) Development of "Pinceaux" Formations and Dendritic Translocation of Climbing Fibers During the Acquisition of the Balance Between Glutamatergic and gamma-Aminobutyric Acidergic Inputs in Developing Purkinje Cells. *J. Comp. Neurol.* 506(2):240-262 (F.I.: 3.915)

Sotelo C.(2008) Viewing the Cerebellum through the Eyes of Ramón Y Cajal. *Cerebellum* 7(4):517-522 (F.I.: 2.306)

Speicher S., Fischer A., Knoblich J., Carmena A.(2008) The PDZ Protein Canoe Regulates the Asymmetric Division of Drosophila Neuroblasts and Muscle Progenitors. *Curr. Biol.* 18:831-837 (F.I.: 10.539)

Stepanyants A., Hirsch JA., Martinez LM., Kisvarday ZF., Ferecsko AC., Chklovskii DB.(2008) Local Potential Connectivity in Cat Primary Visual Cortex. *Cereb. Cortex* 18(1):13-28 (F.I.: 6.519)

Tabares-Seisdedos R., Mata I., Escamez T., Vieta E., Lopez-Illundain JM., Salazar J., Selva G., Balanzá V., Rubio C., Martinez-Aran A., Valdés-Sánchez L., Geijo-Barrientos E., Martinez S.(2008) Evidence for association between structural variants in lissencephaly-related genes and executive deficits in schizophrenia or bipolar patients from a Spanish isolate population. *Psychiatr. Genet.* 18(6):313-317 (F.I.: 2.257)

Tebar LA., Geranton SM., Parsons-Perez C., Fisher AS., Bayne R., Smith AJ., Turmaine M., Perez-Luz S., Sheasby A., De Felipe C., Ruff C., Raivich G., Hunt SP.(2008) Deletion of the mouse RegIIbeta (Reg2) gene disrupts ciliary neurotrophic factor signaling and delays myelination of mouse cranial motor neurons. *Proc. Natl. Acad. Sci. U. S. A.* 105(32):11400-11405 (F.I.: 9.598)

Trapp S., Aller MI., Wisden W., Gourine AV.(2008) A role for TASK-1 (KCNK3) channels in the chemosensory control of breathing. *J. Neurosci.* 28(35):8844-8850 (F.I.: 7.49)

Trifaró JM., Gasmann S., Gutierrez LM.(2008) Cytoskeletal control of vesicle transport and exocytosis in chromaffin cells. *Acta Physiol.* 192:165-172 (F.I.: 1.602)

Valente P., Garcia-Sanz N., Gomis A., Fernandez-Carvajal A., Fernandez-Ballester G., Viana F., Belmonte C., Ferrer-Montiel A.(2008) Identification of molecular determinants of channel gating in transient receptor potential box of vanilloid receptor. *Faseb J.* 22:3298-3309 (F.I.: 6.791)

Viana F., Belmonte C.(2008) Perspective: Funny currents are becoming serious players in nociceptor's sensitization. *J. Physiol.-London* 586(24):5841-5842 (F.I.: 4.58)

Viana F., Belmonte C.(2008) Perspective: Potassium channels shape and brake primary sensory neuron excitability. *J. Physiol.-London* 586(21):5039-5040 (F.I.: 4.58)

Vinod Y., Sanguino E., Yalamanchili R., Manzanares J., Hungund BL.(2008) Manipulation of fatty acid amide hydrolase functional activity alters sensitivity and dependence to ethanol. *J. Neurochem.* 104:233-243 (F.I.: 4.451)

65

Libros.

(En prensa) , Martinez LM.(2008) Criando cerebros más inteligentes. , Ed.: Le pourquois pas Editors.

Barco A.(2008) Circuitos moleculares implicados en la formación de recuerdos: la ruta de activación de CREB. In "Dementia, the growing epidemic. ", Ed.: Fund. Ramón Areces .Cap 0

Cano A., Nieto MA.(2008) Snail transcription factors. In " Cancer Encyclopedia. ", Ed.: Abbe Pub Assn of Washington Dc Cap ?

Gallego R., Pales JL., Escanero JF., Sanchez-Barceló E.(2008) Innovación educativa en la Universidad: la enseñanza de la Fisiología en el Grado de Medicina. , Ed.: Ed. Universitat de Valencia

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Hawkins RD., Barco A., Bailey CH., Kandel ER.(2008) Molecular studies of learning and memory in Aplysia and the hippocampus: A comparative analysis of implicit and explicit memory storage In " LEARNING AND MEMORY: A COMPREHENSIVE REFERENCE. " , Ed.: Elsevier Books;Academic Press. .Cap 1

Manzanares J.(2008) Investigación básico-molecular y modelos de animales en psiquiatría. Sección XI- Investigación en psiquiatría. In " Manual de Psiquiatría 2008 " , Ed.: Tomas Palomo, Jimenez Arriero Eds. .Cap