

# Maria Rodriguez-Muñoz

## List of Publications by Year in descending order

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47  
papers

2,013  
citations

136740

32  
h-index

243296

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1801  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mu-Opioid Receptor and the NMDA Receptor Associate in PAG Neurons: Implications in Pain Control. <i>Neuropsychopharmacology</i> , 2012, 37, 338-349.	2.8	155
2	The cannabinoid receptor 1 associates with NMDA receptors to produce glutamatergic hypofunction: implications in psychosis and schizophrenia. <i>Frontiers in Pharmacology</i> , 2014, 4, 169.	1.6	98
3	Cannabidiol enhances morphine antinociception, diminishes NMDA-mediated seizures and reduces stroke damage via the sigma 1 receptor. <i>Molecular Brain</i> , 2018, 11, 51.	1.3	80
4	Direct Association of Mu-Opioid and NMDA Glutamate Receptors Supports their Cross-Regulation: Molecular Implications for Opioid Tolerance. <i>Current Drug Abuse Reviews</i> , 2012, 5, 199-226.	3.4	77
5	Activation of $\delta$ -Opioid Receptors Transfers Control of $G_{i2}$ Subunits to the Regulator of G-protein Signaling RGS9-2. <i>Journal of Biological Chemistry</i> , 2005, 280, 8951-8960.	1.6	73
6	The $\delta$ 1 Receptor Engages the Redox-Regulated HINT1 Protein to Bring Opioid Analgesia Under NMDA Receptor Negative Control. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 799-818.	2.5	71
7	The RGS22 Protein Exists in a Complex with $\delta$ -Opioid Receptors and Regulates the Desensitizing Capacity of Gz Proteins. <i>Neuropsychopharmacology</i> , 2005, 30, 1632-1648.	2.8	69
8	Cannabinoid Receptors Couple to NMDA Receptors to Reduce the Production of NO and the Mobilization of Zinc Induced by Glutamate. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1766-1782.	2.5	69
9	Morphine alters the selective association between mu-opioid receptors and specific RGS proteins in mouse periaqueductal gray matter. <i>Neuropharmacology</i> , 2005, 48, 853-868.	2.0	68
10	Endocannabinoid control of glutamate NMDA receptors: the therapeutic potential and consequences of dysfunction. <i>Oncotarget</i> , 2016, 7, 55840-55862.	0.8	66
11	NMDAR-nNOS generated zinc recruits PKC $\beta$ 3 to the HINT1-RGS17 complex bound to the C terminus of Mu-opioid receptors. <i>Cellular Signalling</i> , 2008, 20, 1855-1864.	1.7	61
12	RGSZ1 and GAIP Regulate $\delta$ - but Not $\delta$ -Opioid Receptors in Mouse CNS: Role in Tachyphylaxis and Acute Tolerance. <i>Neuropsychopharmacology</i> , 2004, 29, 1091-1104.	2.8	59
13	Mu-Opioid Receptors Transiently Activate the Akt-nNOS Pathway to Produce Sustained Potentiation of PKC-Mediated NMDAR-CaMKII Signaling. <i>PLoS ONE</i> , 2010, 5, e11278.	1.1	57
14	The histidine triad nucleotide-binding protein 1 supports mu-opioid receptor-glutamate NMDA receptor cross-regulation. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 2933-2949.	2.4	50
15	The ON:OFF switch, $\delta$ 1R-HINT1 protein, controls GPCR-NMDA receptor cross-regulation: Implications in neurological disorders. <i>Oncotarget</i> , 2015, 6, 35458-35477.	0.8	50
16	Sumoylated RGS-Rz Proteins Act as Scaffolds for Mu-Opioid Receptors and G-Protein Complexes in Mouse Brain. <i>Neuropsychopharmacology</i> , 2007, 32, 842-850.	2.8	49
17	Gz Mediates the Long-Lasting Desensitization of Brain CB1 Receptors and is Essential for Cross-Tolerance with Morphine. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-11.	1.0	48
18	The plasticity of the association between mu-opioid receptor and glutamate ionotropic receptor N in opioid analgesic tolerance and neuropathic pain. <i>European Journal of Pharmacology</i> , 2013, 716, 94-105.	1.7	47

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19	Do Pharmacological Approaches that Prevent Opioid Tolerance Target Different Elements in the Same Regulatory Machinery?. <i>Current Drug Abuse Reviews</i> , 2008, 1, 222-238.	3.4	46
20	The calcium-sensitive Sigma-1 receptor prevents cannabinoids from provoking glutamate NMDA receptor hypofunction: implications in antinociception and psychotic diseases. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 1943-1955.	1.0	45
21	Nitric Oxide and Zinc-Mediated Protein Assemblies Involved in Mu Opioid Receptor Signaling. <i>Molecular Neurobiology</i> , 2013, 48, 769-782.	1.9	44
22	HINT1 protein cooperates with cannabinoid 1 receptor to negatively regulate glutamate NMDA receptor activity. <i>Molecular Brain</i> , 2013, 6, 42.	1.3	43
23	Morphine Induces Endocytosis of Neuronal $\mu$ -opioid Receptors Through the Sustained Transfer of $G\beta\gamma$ Subunits to RGS22 Proteins. <i>Molecular Pain</i> , 2007, 3, 1744-8069-3-19.	1.0	40
24	GPCRs Promote the Release of Zinc Ions Mediated by nNOS/NO and the Redox Transducer RGS22 Protein. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1163-1177.	2.5	40
25	Effector antagonism by the regulators of G protein signalling (RGS) proteins causes desensitization of mu-opioid receptors in the CNS. <i>Psychopharmacology</i> , 2005, 180, 1-11.	1.5	39
26	Expression of Neural RGS-R7 and $G\beta\gamma$ Proteins in Response to Acute and Chronic Morphine. <i>Neuropsychopharmacology</i> , 2005, 30, 99-110.	2.8	39
27	Fenfluramine diminishes NMDA receptor-mediated seizures via its mixed activity at serotonin 5HT2A and type 1 sigma receptors. <i>Oncotarget</i> , 2018, 9, 23373-23389.	0.8	39
28	Schizophrenia and depression, two poles of endocannabinoid system deregulation. <i>Translational Psychiatry</i> , 2017, 7, 1291.	2.4	38
29	The GBeta5 subunit that associates with the R7 subfamily of RGS proteins regulates mu-opioid effects. <i>Neuropharmacology</i> , 2003, 45, 82-95.	2.0	37
30	HINT1 protein: A new therapeutic target to enhance opioid antinociception and block mechanical allodynia. <i>Neuropharmacology</i> , 2015, 89, 412-423.	2.0	37
31	RGS14 prevents morphine from internalizing Mu-opioid receptors in periaqueductal gray neurons. <i>Cellular Signalling</i> , 2007, 19, 2558-2571.	1.7	33
32	RGS-Rz and RGS9-2 proteins control mu-opioid receptor desensitisation in CNS: the role of activated $G\beta\gamma$ subunits. <i>Neuropharmacology</i> , 2005, 48, 134-150.	2.0	32
33	NO-released Zinc Supports the Simultaneous Binding of Raf-1 and PKC $\beta$ Cysteine-Rich Domains to HINT1 Protein at the Mu-Opioid Receptor. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 2413-2425.	2.5	31
34	RGS22 Binds to the Neural Nitric Oxide Synthase PDZ Domain to Regulate Mu-Opioid Receptor-Mediated Potentiation of the $N$ -Methyl-D-Aspartate Receptor-Calmodulin-Dependent Protein Kinase II Pathway. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 873-887.	2.5	30
35	Brain-specific $G\beta\gamma$ interacts with Src tyrosine kinase to regulate Mu-opioid receptor-NMDAR signaling pathway. <i>Cellular Signalling</i> , 2009, 21, 1444-1454.	1.7	27
36	Calcium/calmodulin-dependent protein kinase II supports morphine antinociceptive tolerance by phosphorylation of glycosylated phosphatidylinositol-dependent protein kinase. <i>Neuropharmacology</i> , 2008, 54, 319-330.	2.0	23

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37	Increased PKC activity and altered GSK3 $\beta$ /NMDAR function drive behavior cycling in HINT1-deficient mice: bipolarity or opposing forces. <i>Scientific Reports</i> , 2017, 7, 43468.	1.6	15
38	The Axonal Motor Neuropathy-Related HINT1 Protein Is a Zinc- and Calmodulin-Regulated Cysteine SUMO Protease. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 503-520.	2.5	15
39	Supersensitivity to $\mu$ -opioid receptor-mediated inhibition of the adenylyl cyclase pathway involves pertussis toxin-resistant G $\beta\gamma$ protein subunits. <i>Neuropharmacology</i> , 2008, 54, 989-997.	2.0	14
40	The Sigma 2 receptor promotes and the Sigma 1 receptor inhibits mu-opioid receptor-mediated antinociception. <i>Molecular Brain</i> , 2020, 13, 150.	1.3	13
41	SUMO-SIM Interactions Regulate the Activity of RGSZ2 Proteins. <i>PLoS ONE</i> , 2011, 6, e28557.	1.1	13
42	Calmodulin Supports TRPA1 Channel Association with Opioid Receptors and Glutamate NMDA Receptors in the Nervous Tissue. <i>International Journal of Molecular Sciences</i> , 2021, 22, 229.	1.8	9
43	The $\delta$ 1 Receptor and the HINT1 Protein Control $\mu$ 1 Binding to Glutamate NMDA Receptors: Implications in Neuropathic Pain. <i>Biomolecules</i> , 2021, 11, 1681.	1.8	7
44	The ALS-Related $\delta$ 1R E102Q Mutant Eludes Ligand Control and Exhibits Anomalous Response to Calcium. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7339.	1.8	6
45	Human HINT1 Mutant Proteins that Cause Axonal Motor Neuropathy Exhibit Anomalous Interactions with Partner Proteins. <i>Molecular Neurobiology</i> , 2021, 58, 1834-1845.	1.9	5
46	Sigma 1 Receptor Antagonists Inhibit Manic-Like Behaviors in Two Congenital Strains of Mice. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 938-948.	1.0	4
47	Detecting Zinc Release Induced by Mu-Opioid Receptor Agonists in Brain Slices. <i>Methods in Molecular Biology</i> , 2015, 1230, 233-241.	0.4	2