

# Gian Michele Ratto

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

2,904  
citations

218677

26  
h-index

276875

41  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetically encoded sensors for Chloride concentration. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109455.	2.5	16
2	Perturbation of Cortical Excitability in a Conditional Model of PCDH19 Disorder. <i>Cells</i> , 2022, 11, 1939.	4.1	7
3	Trehalose Treatment in Zebrafish Model of Lafora Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6874.	4.1	9
4	Altered Cl <sup>-</sup> homeostasis hinders forebrain GABAergic interneuron migration in a mouse model of intellectual disability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
5	Modelling genetic mosaicism of neurodevelopmental disorders in vivo by a Cre-amplifying fluorescent reporter. <i>Nature Communications</i> , 2020, 11, 6194.	12.8	8
6	Evolution of Epileptiform Activity in Zebrafish by Statistical-Based Integration of Electrophysiology and 2-Photon Ca <sup>2+</sup> Imaging. <i>Cells</i> , 2020, 9, 769.	4.1	12
7	Understanding Spreading Depression from Headache to Sudden Unexpected Death. <i>Frontiers in Neurology</i> , 2018, 9, 19.	2.4	51
8	Transient Cognitive Impairment in Epilepsy. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 458.	2.9	30
9	Perineuronal nets control visual input via thalamic recruitment of cortical PV interneurons. <i>eLife</i> , 2018, 7, .	6.0	46
10	Brain-wide Mapping of Endogenous Serotonergic Transmission via Chemogenetic fMRI. <i>Cell Reports</i> , 2017, 21, 910-918.	6.4	70
11	Simultaneous two-photon imaging of intracellular chloride concentration and pH in mouse pyramidal neurons in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8770-E8779.	7.1	110
12	Synchronous Bioimaging of Intracellular pH and Chloride Based on LSS Fluorescent Protein. <i>ACS Chemical Biology</i> , 2016, 11, 1652-1660.	3.4	28
13	Arduino Due based tool to facilitate in vivo two-photon excitation microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 1604.	2.9	8
14	Targeted in vivo genetic manipulation of the mouse or rat brain by in utero electroporation with a triple-electrode probe. <i>Nature Protocols</i> , 2016, 11, 399-412.	12.0	72
15	Dendritic Spine Instability in a Mouse Model of CDKL5 Disorder Is Rescued by Insulin-like Growth Factor 1. <i>Biological Psychiatry</i> , 2016, 80, 302-311.	1.3	106
16	Parvalbumin-Positive Inhibitory Interneurons Oppose Propagation But Favor Generation of Focal Epileptiform Activity. <i>Journal of Neuroscience</i> , 2015, 35, 9544-9557.	3.6	123
17	Twenty years of fluorescence imaging of intracellular chloride. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 258.	3.7	83
18	In Vivo Distribution and Toxicity of PAMAM Dendrimers in the Central Nervous System Depend on Their Surface Chemistry. <i>Molecular Pharmaceutics</i> , 2013, 10, 249-260.	4.6	154

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19	Synthesis, Cellular Delivery and <i>In vivo</i> Application of Dendrimer-based pH Sensors. Journal of Visualized Experiments, 2013, , .	0.3	2
20	Mathematical modeling reveals the functional implications of the different nuclear shuttling rates of Erk1 and Erk2. Physical Biology, 2012, 9, 036001.	1.8	8
21	Finding a Needle in a Haystack: Identification of EGFP Tagged Neurons during Calcium Imaging by Means of Two-Photon Spectral Separation. Frontiers in Molecular Neuroscience, 2012, 5, 96.	2.9	14
22	High-performance and site-directed in utero electroporation by a triple-electrode probe. Nature Communications, 2012, 3, 960.	12.8	110
23	Ictal but Not Interictal Epileptic Discharges Activate Astrocyte Endfeet and Elicit Cerebral Arteriole Responses. Frontiers in Cellular Neuroscience, 2011, 5, 8.	3.7	20
24	The short-time structural plasticity of dendritic spines is altered in a model of Rett syndrome. Scientific Reports, 2011, 1, 45.	3.3	75
25	Cytochrome <i>P</i> -450 3A13 and endothelin jointly mediate ductus arteriosus constriction to oxygen in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H892-H901.	3.2	36
26	Dendrimer-Based Fluorescent Indicators: In Vitro and In Vivo Applications. PLoS ONE, 2011, 6, e28450.	2.5	33
27	An Excitatory Loop with Astrocytes Contributes to Drive Neurons to Seizure Threshold. PLoS Biology, 2010, 8, e1000352.	5.6	194
28	The N-Terminal Domain of ERK1 Accounts for the Functional Differences with ERK2. PLoS ONE, 2008, 3, e3873.	2.5	45
29	Spatio-temporal Dynamics and Localization of MeCP2 and Pathological Mutants in Living Cells. Epigenetics, 2007, 2, 187-197.	2.7	25
30	Dynamic regulation of ERK2 nuclear translocation and mobility in living cells. Journal of Cell Science, 2006, 119, 4952-4963.	2.0	91
31	A Kinase with a Vision. , 2006, 557, 122-132.		15
32	The ability of axons to regenerate their growth cones depends on axonal type and age, and is regulated by calcium, cAMP and ERK. European Journal of Neuroscience, 2005, 21, 2051-2062.	2.6	134
33	At Least 2 Distinct Pathways Generating Reactive Oxygen Species Mediate Vascular Cell Adhesion Molecule-1 Induction by Advanced Glycation End Products. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1401-1407.	2.4	192
34	Amiodarone Inhibits the 3,5,3'-Triiodothyronine-Dependent Increase of Sodium/Potassium Adenosine Triphosphatase Activity and Concentration in Human Atrial Myocardial Tissue. Thyroid, 2004, 14, 493-499.	4.5	11
35	Acute physiological response of mammalian central neurons to axotomy: ionic regulation and electrical activity. FASEB Journal, 2004, 18, 1934-1936.	0.5	95
36	Molecular basis of plasticity in the visual cortex. Trends in Neurosciences, 2003, 26, 369-378.	8.6	252

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37	Patterned Vision Causes CRE-Mediated Gene Expression in the Visual Cortex through PKA and ERK. Journal of Neuroscience, 2003, 23, 7012-7020.	3.6	79
38	Requirement of ERK Activation for Visual Cortical Plasticity. Science, 2001, 292, 2337-2340.	12.6	192
39	Apoptosis and adaptive responses to oxidative stress in human endothelial cells exposed to cyclosporin A correlate with BCL-2 expression levels. FASEB Journal, 2001, 15, 731-740.	0.5	56
40	Brain-Derived Neurotrophic Factor Causes cAMP Response Element-Binding Protein Phosphorylation in Absence of Calcium Increases in Slices and Cultured Neurons from Rat Visual Cortex. Journal of Neuroscience, 2000, 20, 2809-2816.	3.6	124
41	Long-term Survival of Retina Optic Nerve Section in Adult Ganglion Cells Following bcl-2 Transgenic Mice. European Journal of Neuroscience, 1996, 8, 1735-1745.	2.6	138
42	Structure and Function in the Retina. , 1994, , 67-82.		0
43	Two systems of branching axons in monkey's retina. Journal of Comparative Neurology, 1991, 308, 149-161.	1.6	19