Tommaso Patriarchi

List of Publications by Year
in descending order

34 papers	3,007 citations	279798 23 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	3735 citing authors

#	Article	IF	Citations
1	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. Science, 2018, 360, .	12.6	773
2	Dissociable dopamine dynamics for learning and motivation. Nature, 2019, 570, 65-70.	27.8	487
3	An expanded palette of dopamine sensors for multiplex imaging in vivo. Nature Methods, 2020, 17, 1147-1155.	19.0	134
4	Dopamine neurons projecting to medial shell of the nucleus accumbens drive heroin reinforcement. ELife, 2018, 7, .	6.0	125
5	Distinct temporal integration of noradrenaline signaling by astrocytic second messengers during vigilance. Nature Communications, 2020, 11, 471.	12.8	102
6	Cell-type-specific asynchronous modulation of PKA by dopamine in learning. Nature, 2021, 590, 451-456.	27.8	100
7	Dopamine metabolism by a monoamine oxidase mitochondrial shuttle activates the electron transport chain. Nature Neuroscience, 2020, 23, 15-20.	14.8	97
8	Phosphorylation of Ser ¹⁹²⁸ mediates the enhanced activity of the L-type Ca ²⁺ channel Ca _v 1.2 by the Î² ₂ -adrenergic receptor in neurons. Science Signaling, 2017, 10, .	3.6	91
9	Ser ¹⁹²⁸ phosphorylation by PKA stimulates the L-type Ca ²⁺ channel Ca _V 1.2 and vasoconstriction during acute hyperglycemia and diabetes. Science Signaling, 2017, 10, .	3.6	85
10	Striatal-enriched Protein-tyrosine Phosphatase (STEP) Regulates Pyk2 Kinase Activity. Journal of Biological Chemistry, 2012, 287, 20942-20956.	3.4	77
11	Î²₂-Adrenergic receptor supports prolonged theta tetanus-induced LTP. Journal of Neurophysiology, 2012, 107, 2703-2712.	1.8	69
12	GluD1 is a common altered player in neuronal differentiation from both MECP2-mutated and CDKL5-mutated iPS cells. European Journal of Human Genetics, 2015, 23, 195-201.	2.8	65
13	Capping of the N-terminus of PSD-95 by calmodulin triggers its postsynaptic release. EMBO Journal, 2014, 33, 1341-53.	7.8	64
14	A photoswitchable GPCR-based opsin for presynaptic inhibition. Neuron, 2021, 109, 1791-1809.e11.	8.1	62
15	Adenylyl Cyclase Anchoring by a Kinase Anchor Protein AKAP5 (AKAP79/150) Is Important for Postsynaptic Î²-Adrenergic Signaling. Journal of Biological Chemistry, 2013, 288, 17918-17931.	3.4	61
16	Phosphorylation of Ca _v 1.2 on S1928 uncouples the Lâ€type Ca ²⁺ channel from the Î² ₂ adrenergic receptor. EMBO Journal, 2016, 35, 1330-1345.	7.8	61
17	Postsynaptic localization and regulation of AMPA receptors and Cav1.2 by Î²2 adrenergic receptor/PKA and Ca ²⁺ /CaMKII signaling. EMBO Journal, 2018, 37, .	7.8	57
18	Imbalance of excitatory/inhibitory synaptic protein expression in iPSC-derived neurons from FOXG1+/âˆ’ patients and in foxg1+/âˆ’ mice. European Journal of Human Genetics, 2016, 24, 871-880.	2.8	54

#	Article	IF	Citations
19	Î±-Actinin Anchors PSD-95 at Postsynaptic Sites. Neuron, 2018, 97, 1094-1109.e9.	8.1	53
20	A genetically encoded sensor for in vivo imaging of orexin neuropeptides. Nature Methods, 2022, 19, 231-241.	19.0	50
21	Ca ²⁺ /calmodulin binding to <scp>PSD</scp> â€95 mediates homeostatic synaptic scaling down. EMBO Journal, 2018, 37, 122-138.	7.8	36
22	A Bright and Colorful Future for G-Protein Coupled Receptor Sensors. Frontiers in Cellular Neuroscience, 2020, 14, 67.	3.7	35
23	A versatile GPCR toolkit to track in vivo neuromodulation: not a one-size-fits-all sensor. Neuropsychopharmacology, 2021, 46, 2043-2047.	5.4	35
24	Imaging neuromodulators with high spatiotemporal resolution using genetically encoded indicators. Nature Protocols, 2019, 14, 3471-3505.	12.0	33
25	Optical dopamine monitoring with dLight1 reveals mesolimbic phenotypes in a mouse model of neurofibromatosis typeÂ1. ELife, 2019, 8, .	6.0	33
26	GPCR-Based Dopamine Sensorsâ€"A Detailed Guide to Inform Sensor Choice for In Vivo Imaging. International Journal of Molecular Sciences, 2020, 21, 8048.	4.1	32
27	Cyclin G2 promotes cell cycle arrest in breast cancer cells responding to fulvestrant and metformin and correlates with patient survival. Cell Cycle, 2016, 15, 3278-3295.	2.6	30
28	Î±-Actinin Promotes Surface Localization and Current Density of the Ca²⁺ Channel Ca_V1.2 by Binding to the IQ Region of the Î±1 Subunit. Biochemistry, 2017, 56, 3669-3681.	2.5	21
29	L-type CaV1.2 deletion in the cochlea but not in the brainstem reduces noise vulnerability: implication for CaV1.2-mediated control of cochlear BDNF expression. Frontiers in Molecular Neuroscience, 2013, 6, 20.	2.9	15
30	Nanodelivery of a functional membrane receptor to manipulate cellular phenotype. Scientific Reports, 2018, 8, 3556.	3.3	15
31	Multimodal detection of dopamine by sniffer cells expressing genetically encoded fluorescent sensors. Communications Biology, 2022, 5, .	4.4	10
32	Cyclin G2 Contributes to the Cell Cycle Arrest Response of Breast Cancer Cells to Estrogen Signalingâ€Antagonists and the AMPK Agonist, Metformin. FASEB Journal, 2015, 29, 576.10.	0.5	3
33	Abstract 4559: Knockdown of cyclin G2 expression hinders the cell cycle arrest response of MCF-7 cells to estrogen receptor signaling-antagonists and treatment with the antidiabetic metformin. , 2014, , .		0
34	State of the art imaging of neurotransmission in animal models. Journal of Neuroscience Methods, 2022, 376, 109623.	2.5	0