

Kirill A Martemyanov

List of Publications by Year in descending order

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147
papers

6,438
citations

53794

45
h-index

88630

70
g-index

156
all docs

156
docs citations

156
times ranked

6759
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacogenomics of GPCR Drug Targets. <i>Cell</i> , 2018, 172, 41-54.e19.	28.9	464
2	Mutations in GNAL cause primary torsion dystonia. <i>Nature Genetics</i> , 2013, 45, 88-92.	21.4	281
3	RGS Expression Rate-Limits Recovery of Rod Photoresponses. <i>Neuron</i> , 2006, 51, 409-416.	8.1	244
4	Distinct profiles of functional discrimination among G proteins determine the actions of G protein-coupled receptors. <i>Science Signaling</i> , 2015, 8, ra123.	3.6	197
5	Defects in RGS9 or its anchor protein R9AP in patients with slow photoreceptor deactivation. <i>Nature</i> , 2004, 427, 75-78.	27.8	159
6	Structure of a mutant EF-G reveals domain III and possibly the fusidic acid binding site 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 2000, 303, 593-603.	4.2	141
7	Human Immunodeficiency Virus Protein Tat Induces Synapse Loss via a Reversible Process That Is Distinct from Cell Death. <i>Journal of Neuroscience</i> , 2008, 28, 12604-12613.	3.6	139
8	R7BP, a Novel Neuronal Protein Interacting with RGS Proteins of the R7 Family. <i>Journal of Biological Chemistry</i> , 2005, 280, 5133-5136.	3.4	136
9	The R7 RGS Protein Family: Multi-Subunit Regulators of Neuronal G Protein Signaling. <i>Cell Biochemistry and Biophysics</i> , 2009, 54, 33-46.	1.8	126
10	The DEP Domain Determines Subcellular Targeting of the GTPase Activating Protein RGS9 <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2003, 23, 10175-10181.	3.6	113
11	Mechanism for Selective Synaptic Wiring of Rod Photoreceptors into the Retinal Circuitry and Its Role in Vision. <i>Neuron</i> , 2015, 87, 1248-1260.	8.1	100
12	GPR158/179 regulate G protein signaling by controlling localization and activity of the RGS7 complexes. <i>Journal of Cell Biology</i> , 2012, 197, 711-719.	5.2	94
13	Absence of the RGS9-GÎ25 GTPase-activating Complex in Photoreceptors of the R9AP Knockout Mouse. <i>Journal of Biological Chemistry</i> , 2004, 279, 1581-1584.	3.4	90
14	TRPM1 Forms Complexes with Nyctalopin <i>In Vivo</i> and Accumulates in Postsynaptic Compartment of ON-Bipolar Neurons in mGluR6-Dependent Manner. <i>Journal of Neuroscience</i> , 2011, 31, 11521-11526.	3.6	90
15	Community guidelines for GPCR ligand bias: IUPHAR review 32. <i>British Journal of Pharmacology</i> , 2022, 179, 3651-3674.	5.4	84
16	RGS6/GÎ25 Complex Accelerates <i>In Vivo</i> KACH Gating Kinetics in Atrial Myocytes and Modulates Parasympathetic Regulation of Heart Rate. <i>Circulation Research</i> , 2010, 107, 1350-1354.	4.5	83
17	A Global Map of G Protein Signaling Regulation by RGS Proteins. <i>Cell</i> , 2020, 183, 503-521.e19.	28.9	82
18	The Auxiliary Calcium Channel Subunit Î2Î4 Is Required for Axonal Elaboration, Synaptic Transmission, and Wiring of Rod Photoreceptors. <i>Neuron</i> , 2017, 93, 1359-1374.e6.	8.1	80

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19	Retina-Specific GTPase Accelerator RGS11/G $\hat{2}$ 5S/R9AP Is a Constitutive Heterotrimer Selectively Targeted to mGluR6 in ON-Bipolar Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 9301-9313.	3.6	76
20	Regulators of G protein signaling RGS7 and RGS11 determine the onset of the light response in ON bipolar neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7905-7910.	7.1	76
21	Dopamine Receptor DAMB Signals via Gq to Mediate Forgetting in <i>Drosophila</i> . <i>Cell Reports</i> , 2017, 21, 2074-2081.	6.4	73
22	Mutations in <i>GNAL</i> . <i>JAMA Neurology</i> , 2014, 71, 490.	9.0	70
23	Cell-Free Production of Biologically Active Polypeptides: Application to the Synthesis of Antibacterial Peptide Cecropin. <i>Protein Expression and Purification</i> , 2001, 21, 456-461.	1.3	67
24	Specific Binding of RGS9-G $\hat{2}$ 5L to Protein Anchor in Photoreceptor Membranes Greatly Enhances Its Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 24376-24381.	3.4	67
25	G $\hat{2}$ 5 recruits R7 RGS proteins to GIRK channels to regulate the timing of neuronal inhibitory signaling. <i>Nature Neuroscience</i> , 2010, 13, 661-663.	14.8	65
26	Targeting G protein-coupled receptor signaling at the G protein level with a selective nanobody inhibitor. <i>Nature Communications</i> , 2018, 9, 1996.	12.8	65
27	RGS7/G $\hat{2}$ 5/R7BP complex regulates synaptic plasticity and memory by modulating hippocampal GABABR-GIRK signaling. <i>ELife</i> , 2014, 3, e02053.	6.0	64
28	Monitoring G Protein Activation in Cells with BRET. <i>Methods in Molecular Biology</i> , 2015, 1335, 107-113.	0.9	61
29	Subcellular Targeting of RGS9-2 Is Controlled by Multiple Molecular Determinants on Its Membrane Anchor, R7BP. <i>Journal of Biological Chemistry</i> , 2006, 281, 15361-15369.	3.4	60
30	Expression and Localization of RGS9-2/G 5/R7BP Complex In Vivo Is Set by Dynamic Control of Its Constitutive Degradation by Cellular Cysteine Proteases. <i>Journal of Neuroscience</i> , 2007, 27, 14117-14127.	3.6	60
31	An Input-Specific Orphan Receptor GPR158-HSPG Interaction Organizes Hippocampal Mossy Fiber-CA3 Synapses. <i>Neuron</i> , 2018, 100, 201-215.e9.	8.1	60
32	RGS9-G $\hat{2}$ 5 Substrate Selectivity in Photoreceptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 37365-37372.	3.4	59
33	The Membrane Anchor R7BP Controls the Proteolytic Stability of the Striatal Specific RGS Protein, RGS9-2. <i>Journal of Biological Chemistry</i> , 2007, 282, 4772-4781.	3.4	59
34	GPR179 Is Required for High Sensitivity of the mGluR6 Signaling Cascade in Depolarizing Bipolar Cells. <i>Journal of Neuroscience</i> , 2014, 34, 6334-6343.	3.6	58
35	A role of RGS proteins in drug addiction. <i>Biochemical Pharmacology</i> , 2008, 75, 76-84.	4.4	57
36	LGR5 receptor promotes cell-cell adhesion in stem cells and colon cancer cells via the IQGAP1-Rac1 pathway. <i>Journal of Biological Chemistry</i> , 2017, 292, 14989-15001.	3.4	57

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37	Orphan receptor GPR158 controls stress-induced depression. <i>ELife</i> , 2018, 7, .	6.0	56
38	Interrogating the Spatiotemporal Landscape of Neuromodulatory GPCR Signaling by Real-Time Imaging of cAMP in Intact Neurons and Circuits. <i>Cell Reports</i> , 2018, 22, 255-268.	6.4	53
39	Transsynaptic Binding of Orphan Receptor GPR179 to Dystroglycan-Pikachurin Complex Is Essential for the Synaptic Organization of Photoreceptors. <i>Cell Reports</i> , 2018, 25, 130-145.e5.	6.4	53
40	Regional Heterogeneity of D2-Receptor Signaling in the Dorsal Striatum and Nucleus Accumbens. <i>Neuron</i> , 2018, 98, 575-587.e4.	8.1	52
41	The Transduction Cascade in Retinal ON-Bipolar Cells: Signal Processing and Disease. <i>Annual Review of Vision Science</i> , 2017, 3, 25-51.	4.4	51
42	Orphan Receptor GPR179 Forms Macromolecular Complexes With Components of Metabotropic Signaling Cascade in Retina ON-Bipolar Neurons. , 2013, 54, 7153.		50
43	Homer 1a Gates the Induction Mechanism for Endocannabinoid-Mediated Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2010, 30, 3072-3081.	3.6	49
44	Orphan Receptor GPR158 Is an Allosteric Modulator of RGS7 Catalytic Activity with an Essential Role in Dictating Its Expression and Localization in the Brain. <i>Journal of Biological Chemistry</i> , 2015, 290, 13622-13639.	3.4	49
45	Targeting of RGS7/G β 25 to the Dendritic Tips of ON-Bipolar Cells Is Independent of Its Association with Membrane Anchor R7BP. <i>Journal of Neuroscience</i> , 2008, 28, 10443-10449.	3.6	48
46	<sc>LRIT</sc>3 is essential to localize <sc>TRPM</sc>1 to the dendritic tips of depolarizing bipolar cells and may play a role in cone synapse formation. <i>European Journal of Neuroscience</i> , 2015, 42, 1966-1975.	2.6	48
47	G β 10 is a major determinant of cAMP signaling in the pathophysiology of movement disorders. <i>Cell Reports</i> , 2021, 34, 108718.	6.4	48
48	Synaptic adhesion protein ELFN1 is a selective allosteric modulator of group III metabotropic glutamate receptors <i>in trans</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5022-5027.	7.1	47
49	R7BP Complexes With RGS9-2 and RGS7 in the Striatum Differentially Control Motor Learning and Locomotor Responses to Cocaine. <i>Neuropsychopharmacology</i> , 2010, 35, 1040-1050.	5.4	46
50	Macromolecular Composition Dictates Receptor and G Protein Selectivity of Regulator of G Protein Signaling (RGS) 7 and 9-2 Protein Complexes in Living Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 25129-25142.	3.4	46
51	Genetic behavioral screen identifies an orphan anti-opioid system. <i>Science</i> , 2019, 365, 1267-1273.	12.6	43
52	Diversity of the G β 23 complexes defines spatial and temporal bias of GPCR signaling. <i>Cell Systems</i> , 2021, 12, 324-337.e5.	6.2	43
53	Interaction of Transducin with Uncoordinated 119 Protein (UNC119). <i>Journal of Biological Chemistry</i> , 2011, 286, 28954-28962.	3.4	42
54	Specificity of G Protein-RGS Protein Recognition Is Regulated by Affinity Adapters. <i>Neuron</i> , 2003, 38, 857-862.	8.1	41

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55	The Complex of G Protein Regulator RGS9-2 and G $\hat{1}^2$ Controls Sensitization and Signaling Kinetics of Type 5 Adenylyl Cyclase in the Striatum. <i>Science Signaling</i> , 2012, 5, ra63.	3.6	41
56	Novel <i>GNB1</i> mutations disrupt assembly and function of G protein heterotrimers and cause global developmental delay in humans. <i>Human Molecular Genetics</i> , 2017, 26, ddx018.	2.9	41
57	Localization and differential interaction of R7 RGS proteins with their membrane anchors R7BP and R9AP in neurons of vertebrate retina. <i>Molecular and Cellular Neurosciences</i> , 2007, 35, 311-319.	2.2	40
58	Association of Rgs7/G $\hat{1}^2$ complexes with girk channels and GABA _B receptors in hippocampal CA1 pyramidal neurons. <i>Hippocampus</i> , 2013, 23, 1231-1245.	1.9	40
59	Essential Role of the m2R-RGS6-1KCh Pathway in Controlling Intrinsic Heart Rate Variability. <i>PLoS ONE</i> , 2013, 8, e76973.	2.5	38
60	Kinetic Mechanism of RGS9-1 Potentiation by R9AP. <i>Biochemistry</i> , 2006, 45, 10690-10697.	2.5	37
61	Control of Striatal Signaling by G Protein Regulators. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 49.	1.7	36
62	GNB5 mutation causes a novel neuropsychiatric disorder featuring attention deficit hyperactivity disorder, severely impaired language development and normal cognition. <i>Genome Biology</i> , 2016, 17, 195.	8.8	36
63	Beyond the Ligand: Extracellular and Transcellular G Protein-Coupled Receptor Complexes in Physiology and Pharmacology. <i>Pharmacological Reviews</i> , 2019, 71, 503-519.	16.0	36
64	G Protein-Gated K ⁺ Channel Ablation in Forebrain Pyramidal Neurons Selectively Impairs Fear Learning. <i>Biological Psychiatry</i> , 2016, 80, 796-806.	1.3	35
65	Caspase-2 promotes AMPA receptor internalization and cognitive flexibility via mTORC2-AKT-GSK3 $\hat{1}^2$ signaling. <i>Nature Communications</i> , 2019, 10, 3622.	12.8	35
66	Free Fatty Acid Receptors as new potential therapeutic target in inflammatory bowel diseases. <i>Pharmacological Research</i> , 2020, 152, 104604.	7.1	35
67	NF1 Is a Direct G Protein Effector Essential for Opioid Signaling to Ras in the Striatum. <i>Current Biology</i> , 2016, 26, 2992-3003.	3.9	34
68	Synergistically acting agonists and antagonists of G protein-coupled receptors prevent photoreceptor cell degeneration. <i>Science Signaling</i> , 2016, 9, ra74.	3.6	33
69	Disruption of the Chaperonin Containing TCP-1 Function Affects Protein Networks Essential for Rod Outer Segment Morphogenesis and Survival. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.000570.	3.8	32
70	Changes in Striatal Signaling Induce Remodeling of RGS Complexes Containing G $\hat{1}^2$ and R7BP Subunits. <i>Molecular and Cellular Biology</i> , 2009, 29, 3033-3044.	2.3	31
71	G $\hat{1}^2$ -RGS complexes are gatekeepers of hyperactivity involved in control of multiple neurotransmitter systems. <i>Psychopharmacology</i> , 2012, 219, 823-834.	3.1	31
72	RGS6, but Not RGS4, Is the Dominant Regulator of G Protein Signaling (RGS) Modulator of the Parasympathetic Regulation of Mouse Heart Rate. <i>Journal of Biological Chemistry</i> , 2014, 289, 2440-2449.	3.4	31

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73	Domain IV of elongation factor G from <i>Thermus thermophilus</i> strictly required for translocation. <i>FEBS Letters</i> , 1999, 452, 155-159.	2.8	30
74	The TRPM1 channel in ON-bipolar cells is gated by both the $\hat{1}\pm$ and the $\hat{1}^2\hat{1}^3$ subunits of the G-protein G_o . <i>Scientific Reports</i> , 2016, 6, 20940.	3.3	30
75	Regulator of G-Protein Signaling 7 Regulates Reward Behavior by Controlling Opioid Signaling in the Striatum. <i>Biological Psychiatry</i> , 2016, 80, 235-245.	1.3	29
76	ELFN2 is a postsynaptic cell adhesion molecule with essential roles in controlling group III mGluRs in the brain and neuropsychiatric behavior. <i>Molecular Psychiatry</i> , 2019, 24, 1902-1919.	7.9	28
77	Functional comparison of RGS9 splice isoforms in a living cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20988-20993.	7.1	27
78	Stable G protein-effector complexes in striatal neurons: mechanism of assembly and role in neurotransmitter signaling. <i>eLife</i> , 2015, 4, .	6.0	27
79	Sulfhydryl-Reactive, Cleavable, and Radioiodinatable Benzophenone Photoprobes for Study of Protein-Protein Interaction. <i>Bioconjugate Chemistry</i> , 2005, 16, 685-693.	3.6	26
80	Membrane Anchor R9AP Potentiates GTPase-accelerating Protein Activity of RGS11-G $\hat{1}^25$ Complex and Accelerates Inactivation of the mGluR6-Go Signaling. <i>Journal of Biological Chemistry</i> , 2010, 285, 4781-4787.	3.4	26
81	Domain III of Elongation Factor G from <i>Thermus thermophilus</i> Is Essential for Induction of GTP Hydrolysis on the Ribosome. <i>Journal of Biological Chemistry</i> , 2000, 275, 35820-35824.	3.4	25
82	LRIT3 Differentially Affects Connectivity and Synaptic Transmission of Cones to ON- and OFF-Bipolar Cells. , 2017, 58, 1768.		25
83	Mutations in the G-domain of Elongation Factor G from <i>Thermus thermophilus</i> Affect Both Its Interaction with GTP and Fusidic Acid. <i>Journal of Biological Chemistry</i> , 2001, 276, 28774-28778.	3.4	24
84	Cryo-EM structure of human GPR158 receptor coupled to the RGS7-G $\hat{1}^25$ signaling complex. <i>Science</i> , 2022, 375, 86-91.	12.6	24
85	Noncatalytic Domains of RGS9-1-G $\hat{1}^25L$ Play a Decisive Role in Establishing Its Substrate Specificity. <i>Journal of Biological Chemistry</i> , 2002, 277, 32843-32848.	3.4	23
86	Chapter 7 Biology and Functions of the RGS9 Isoforms. <i>Progress in Molecular Biology and Translational Science</i> , 2009, 86, 205-227.	1.7	23
87	Nuclear localization of the G protein $\hat{1}^25/R7$ regulator of G protein signaling protein complex is dependent on R7 binding protein. <i>Journal of Neurochemistry</i> , 2010, 113, 1101-1112.	3.9	22
88	Homozygous <i>GNAL</i> mutation associated with familial childhood-onset generalized dystonia. <i>Neurology: Genetics</i> , 2016, 2, e78.	1.9	22
89	Genetic modeling of GNAO1 disorder delineates mechanisms of G $\hat{1}\pm$ dysfunction. <i>Human Molecular Genetics</i> , 2022, 31, 510-522.	2.9	22
90	Type 5 G Protein $\hat{1}^2$ Subunit (G $\hat{1}^25$) Controls the Interaction of Regulator of G Protein Signaling 9 (RGS9) with Membrane Anchors. <i>Journal of Biological Chemistry</i> , 2011, 286, 21806-21813.	3.4	21

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91	The N Terminus of GTP γ S-activated Transducin $\hat{\alpha}$ -Subunit Interacts with the C Terminus of the cGMP Phosphodiesterase $\hat{\beta}$ -Subunit. <i>Journal of Biological Chemistry</i> , 2006, 281, 6194-6202.	3.4	20
92	The signaling proteins GPR158 and RGS7 modulate excitability of L2/3 pyramidal neurons and control A-type potassium channel in the prelimbic cortex. <i>Journal of Biological Chemistry</i> , 2019, 294, 13145-13157.	3.4	20
93	Homeostatic cAMP regulation by the RGS7 complex controls depression-related behaviors. <i>Neuropsychopharmacology</i> , 2019, 44, 642-653.	5.4	20
94	Interplay between cell-adhesion molecules governs synaptic wiring of cone photoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23914-23924.	7.1	20
95	The orphan receptor GPR139 signals via Gq/11 to oppose opioid effects. <i>Journal of Biological Chemistry</i> , 2020, 295, 10822-10830.	3.4	20
96	Expression and relevance of the G protein-gated K ⁺ channel in the mouse ventricle. <i>Scientific Reports</i> , 2018, 8, 1192.	3.3	19
97	Automated Live-Cell Imaging of Synapses in Rat and Human Neuronal Cultures. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 467.	3.7	19
98	R7BP Modulates Opiate Analgesia and Tolerance but not Withdrawal. <i>Neuropsychopharmacology</i> , 2012, 37, 1005-1012.	5.4	18
99	LRIT1 Modulates Adaptive Changes in Synaptic Communication of Cone Photoreceptors. <i>Cell Reports</i> , 2018, 22, 3562-3573.	6.4	18
100	Structural organization of a major neuronal G protein regulator, the RGS7-G $\hat{\gamma}$ 25-R7BP complex. <i>ELife</i> , 2018, 7, .	6.0	18
101	Inhibitory Signaling to Ion Channels in Hippocampal Neurons Is Differentially Regulated by Alternative Macromolecular Complexes of RGS7. <i>Journal of Neuroscience</i> , 2018, 38, 10002-10015.	3.6	18
102	GPCR-dependent biasing of GIRK channel signaling dynamics by RGS6 in mouse sinoatrial nodal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14522-14531.	7.1	17
103	Nuclear Receptor Nr4a1 Regulates Striatal Striosome Development and Dopamine D ₂ Receptor Signaling. <i>ENeuro</i> , 2019, 6, ENEURO.0305-19.2019.	1.9	17
104	Improved Scalability of Neuron-Based Phenotypic Screening Assays for Therapeutic Discovery in Neuropsychiatric Disorders. <i>Molecular Neuropsychiatry</i> , 2017, 3, 141-150.	2.9	16
105	A Conserved Protein Interaction Interface on the Type 5 G Protein $\hat{\beta}$ Subunit Controls Proteolytic Stability and Activity of R7 Family Regulator of G Protein Signaling Proteins. <i>Journal of Biological Chemistry</i> , 2010, 285, 41100-41112.	3.4	15
106	Proteomic Identification of Hsc70 as a Mediator of RGS9-2 Degradation by In Vivo Interactome Analysis. <i>Journal of Proteome Research</i> , 2010, 9, 1510-1521.	3.7	15
107	RGS proteins as targets in the treatment of intestinal inflammation and visceral pain: New insights and future perspectives. <i>BioEssays</i> , 2016, 38, 344-354.	2.5	15
108	Identification of Novel Adenylyl Cyclase 5 (AC5) Signaling Networks in D1 and D2 Medium Spiny Neurons using Bimolecular Fluorescence Complementation Screening. <i>Cells</i> , 2019, 8, 1468.	4.1	15

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109	Clarin α expression in adult mouse and human retina highlights a role of Müller glia in Usher syndrome. <i>Journal of Pathology</i> , 2020, 250, 195-204.	4.5	15
110	Sensitivity and kinetics of signal transmission at the first visual synapse differentially impact visually-guided behavior. <i>ELife</i> , 2015, 4, e06358.	6.0	15
111	G Protein Signaling in the Retina and Beyond: The Cogan Lecture. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8201-8207.	3.3	14
112	NF1-cAMP signaling dissociates cell type-specific contributions of striatal medium spiny neurons to reward valuation and motor control. <i>PLoS Biology</i> , 2019, 17, e3000477.	5.6	14
113	Allostatic Changes in the cAMP System Drive Opioid-Induced Adaptation in Striatal Dopamine Signaling. <i>Cell Reports</i> , 2019, 29, 946-960.e2.	6.4	14
114	Ligand-directed bias of G protein signaling at the dopamine D2 receptor. <i>Cell Chemical Biology</i> , 2022, 29, 226-238.e4.	5.2	14
115	Members of the KCTD family are major regulators of cAMP signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
116	RGS7 is recurrently mutated in melanoma and promotes migration and invasion of human cancer cells. <i>Scientific Reports</i> , 2018, 8, 653.	3.3	13
117	The role of orphan receptor GPR139 in neuropsychiatric behavior. <i>Neuropsychopharmacology</i> , 2022, 47, 902-913.	5.4	13
118	Kinetic Approaches to Study the Function of RGS9 Isoforms. <i>Methods in Enzymology</i> , 2004, 390, 196-209.	1.0	12
119	Intermolecular Interaction between Anchoring Subunits Specify Subcellular Targeting and Function of RGS Proteins in Retina ON-Bipolar Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 2915-2925.	3.6	12
120	Molecular Deconvolution Platform to Establish Disease Mechanisms by Surveying GPCR Signaling. <i>Cell Reports</i> , 2018, 24, 557-568.e5.	6.4	12
121	Haploinsufficiency as a disease mechanism in <i>GNB1</i> -associated neurodevelopmental disorder. <i>Molecular Genetics & Genomic Medicine</i> , 2020, 8, e1477.	1.2	12
122	Regulator of G Protein Signaling 7 (RGS7) Can Exist in a Homo-oligomeric Form That Is Regulated by $G\beta$ and R7-binding Protein. <i>Journal of Biological Chemistry</i> , 2016, 291, 9133-9147.	3.4	11
123	Divergent outer retinal circuits drive image and non-image visual behaviors. <i>Cell Reports</i> , 2022, 39, 111003.	6.4	11
124	Screening of GNAL variants in Brazilian patients with isolated dystonia reveals a novel mutation with partial loss of function. <i>Journal of Neurology</i> , 2016, 263, 665-668.	3.6	10
125	Association with the Plasma Membrane Is Sufficient for Potentiating Catalytic Activity of Regulators of G Protein Signaling (RGS) Proteins of the R7 Subfamily. <i>Journal of Biological Chemistry</i> , 2016, 291, 7195-7204.	3.4	10
126	Membrane Anchoring Subunits Specify Selective Regulation of RGS9-G β 25 GAP Complex in Photoreceptor Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 13784-13793.	3.6	9

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127	Cellular and Subcellular Localization of the RGS7/G β 25/R7BP Complex in the Cerebellar Cortex. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 114.	1.7	8
128	Striatal Dopamine Induced ERK Phosphorylation Is Altered in Mouse Models of Monogenic Dystonia. <i>Movement Disorders</i> , 2021, 36, 1147-1157.	3.9	7
129	Striatal RGS7 Regulates Depression-Related Behaviors and Stress-Induced Reinstatement of Cocaine Conditioned Place Preference. <i>ENeuro</i> , 2021, 8, ENEURO.0365-20.2020.	1.9	7
130	Selective Role of RGS9-2 in Regulating Retrograde Synaptic Signaling of Indirect Pathway Medium Spiny Neurons in Dorsal Striatum. <i>Journal of Neuroscience</i> , 2018, 38, 7120-7131.	3.6	6
131	GPR158 in the Visual System: Homeostatic Role in Regulation of Intraocular Pressure. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2019, 35, 203-215.	1.4	6
132	Extremely Thermostable Elongation Factor G from <i>Aquifex aeolicus</i> : Cloning, Expression, Purification, and Characterization in a Heterologous Translation System. <i>Protein Expression and Purification</i> , 2000, 18, 257-261.	1.3	5
133	The influences of the M2R-GIRK4-RGS6 dependent parasympathetic pathway on electrophysiological properties of the mouse heart. <i>PLoS ONE</i> , 2018, 13, e0193798.	2.5	5
134	Making useful gadgets with miniaturized G proteins. <i>Journal of Biological Chemistry</i> , 2018, 293, 7474-7475.	3.4	5
135	Adhesion GPCR Latrophilin 3 regulates synaptic function of cone photoreceptors in a trans-synaptic manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
136	A High-Throughput Time-Resolved Fluorescence Energy Transfer Assay to Screen for Modulators of RGS7/G β 25/R7BP Complex. <i>Assay and Drug Development Technologies</i> , 2018, 16, 150-161.	1.2	3
137	Live cell optical assay for precise characterization of receptors coupling to G β 12. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 126, 88-95.	2.5	3
138	Extended Phenotyping and Functional Validation Facilitate Diagnosis of a Complex Patient Harboring Genetic Variants in MCCC1 and GNB5 Causing Overlapping Phenotypes. <i>Genes</i> , 2021, 12, 1352.	2.4	3
139	Mechanisms of G β 3 Release upon GPCR Activation. <i>Trends in Biochemical Sciences</i> , 2021, 46, 703-704.	7.5	3
140	Cryo-EM structure of human GPR158 receptor coupled to the RGS7-G β 25 signaling complex. <i>Science</i> , 2021, , eabl4732.	12.6	2
141	GNAL Mutations and Dystonia—Reply. <i>JAMA Neurology</i> , 2014, 71, 1053.	9.0	1
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