Stephen S G Ferguson

List of Publications by Year
in descending order

83 papers	4,987 citations	109137 35 h-index	95083 68 g-index
84 all docs	84 docs citations	84 times ranked	5316 citing authors

#	Article	IF	Citations
1	A Î²-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation. Journal of Biological Chemistry, 1997, 272, 27497-27500.	1.6	402
2	Regulation of GPCR activity, trafficking and localization by GPCRâ€interacting proteins. British Journal of Pharmacology, 2012, 165, 1717-1736.	2.7	294
3	Regulation of tyrosine kinase activation and granule release through Î²-arrestin by CXCR1. Nature Immunology, 2000, 1, 227-233.	7.0	215
4	Cellular Trafficking of G Protein-coupled Receptor/Î²-Arrestin Endocytic Complexes. Journal of Biological Chemistry, 1999, 274, 10999-11006.	1.6	199
5	Metabotropic glutamate receptors and neurodegenerative diseases. Pharmacological Research, 2017, 115, 179-191.	3.1	194
6	Regulation of G protein-coupled receptor endocytosis and trafficking by Rab GTPases. Life Sciences, 2003, 74, 225-235.	2.0	184
7	Regulation of metabotropic glutamate receptor signaling, desensitization and endocytosis. , 2006, 111, 260-271.		180
8	CRF receptor 1 regulates anxiety behavior via sensitization of 5-HT2 receptor signaling. Nature Neuroscience, 2010, 13, 622-629.	7.1	176
9	G-Proteinâ€“Coupled Receptor Kinase Activity in Hypertension. Hypertension, 2000, 35, 38-42.	1.3	138
10	Group I Metabotropic Glutamate Receptor Signalling and its Implication in Neurological Disease. CNS and Neurological Disorders - Drug Targets, 2010, 9, 574-595.	0.8	136
11	Î²-Arrestins regulate a Ral-GDSâ€“Ral effector pathway that mediates cytoskeletal reorganization. Nature Cell Biology, 2002, 4, 547-555.	4.6	129
12	Inhibition of Metabotropic Glutamate Receptor Signaling by the Huntingtin-binding Protein Optineurin. Journal of Biological Chemistry, 2005, 280, 34840-34848.	1.6	127
13	Rab5 Association with the Angiotensin II Type 1A Receptor Promotes Rab5 GTP Binding and Vesicular Fusion. Journal of Biological Chemistry, 2002, 277, 679-685.	1.6	117
14	G Protein-coupled Receptor Kinase-mediated Desensitization of Metabotropic Glutamate Receptor 1A Protects against Cell Death. Journal of Biological Chemistry, 2000, 275, 38213-38220.	1.6	111
15	Metabotropic glutamate receptor 5 knockout reduces cognitive impairment and pathogenesis in a mouse model of Alzheimer's disease. Molecular Brain, 2014, 7, 40.	1.3	107
16	Phosphorylation-independent attenuation of GPCR signalling. Trends in Pharmacological Sciences, 2007, 28, 173-179.	4.0	104
17	PDZ Protein Regulation of G Proteinâ€“Coupled Receptor Trafficking and Signaling Pathways. Molecular Pharmacology, 2015, 88, 624-639.	1.0	98
18	Phosphorylation-independent Regulation of Metabotropic Glutamate Receptor Signaling by G Protein-coupled Receptor Kinase 2. Journal of Biological Chemistry, 2002, 277, 25266-25272.	1.6	97

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19	Chronic Pharmacological mGluR5 Inhibition Prevents Cognitive Impairment and Reduces Pathogenesis in an Alzheimer Disease Mouse Model. Cell Reports, 2016, 15, 1859-1865.	2.9	95
20	Receptor/Î²-Arrestin Complex Formation and the Differential Trafficking and Resensitization ofÎ²2-Adrenergic and Angiotensin II Type 1A Receptors. Molecular Endocrinology, 2000, 14, 2040-2053.	3.7	93
21	A Dopamine D2 Receptor-DISC1 Protein Complex may Contribute to Antipsychotic-Like Effects. Neuron, 2014, 84, 1302-1316.	3.8	91
22	Metabotropic Glutamate Receptor-Mediated Cell Signaling Pathways Are Altered in a Mouse Model of Huntington's Disease. Journal of Neuroscience, 2010, 30, 316-324.	1.7	83
23	Ral and Phospholipase D2-Dependent Pathway for Constitutive Metabotropic Glutamate Receptor Endocytosis. Journal of Neuroscience, 2004, 24, 8752-8761.	1.7	82
24	Differential regulation of corticotropin releasing factor 1alpha receptor endocytosis and trafficking by beta-arrestins and Rab GTPases. Journal of Neurochemistry, 2006, 96, 934-949.	2.1	81
25	mGluR5 antagonism increases autophagy and prevents disease progression in the zQ175 mouse model of Huntingtonâ€™s disease. Science Signaling, 2017, 10, .	1.6	70
26	Modulation of mTOR and CREB pathways following mGluR5 blockade contribute to improved Huntingtonâ€™s pathology in zQ175 mice. Molecular Brain, 2019, 12, 35.	1.3	67
27	Spatial-Temporal Patterning of Metabotropic Glutamate Receptor-mediated Inositol 1,4,5-Triphosphate, Calcium, and Protein Kinase C Oscillations. Journal of Biological Chemistry, 2001, 276, 35900-35908.	1.6	64
28	Phosphorylation-independent Regulation of Metabotropic Glutamate Receptor 5 Desensitization and Internalization by G Protein-coupled Receptor Kinase 2 in Neurons. Journal of Biological Chemistry, 2009, 284, 23444-23453.	1.6	63
29	Glutamate receptors function as scaffolds for the regulation of Î²-amyloid and cellular prion protein signaling complexes. Molecular Brain, 2015, 8, 18.	1.3	59
30	Green Fluorescent Protein-Tagged Î²-Arrestin Translocation as a Measure of G Protein-Coupled Receptor Activation. , 2004, 237, 121-126.		55
31	Huntingtonâ€™s Disease and Group I Metabotropic Glutamate Receptors. Molecular Neurobiology, 2011, 43, 1-11.	1.9	47
32	MIiSR: Molecular Interactions in Super-Resolution Imaging Enables the Analysis of Protein Interactions, Dynamics and Formation of Multi-protein Structures. PLoS Computational Biology, 2015, 11, e1004634.	1.5	47
33	Phosphorylation-independent Regulation of Metabotropic Glutamate Receptor 1 Signaling Requires G Protein-coupled Receptor Kinase 2 Binding to the Second Intracellular Loop. Journal of Biological Chemistry, 2005, 280, 24420-24427.	1.6	46
34	AÎ² oligomers induce pathophysiological mGluR5 signaling in Alzheimerâ€™s disease model mice in a sex-selective manner. Science Signaling, 2020, 13, .	1.6	45
35	Metabotropic glutamate receptor 5 knockout promotes motor and biochemical alterations in a mouse model of Huntington's disease. Human Molecular Genetics, 2014, 23, 2030-2042.	1.4	44
36	Pyk2 uncouples metabotropic glutamate receptor G protein signaling but facilitates ERK1/2 activation. Molecular Brain, 2010, 3, 4.	1.3	40

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37	The Angiotensin II Type 1 Receptor Induces Membrane Blebbing by Coupling to Rho A, Rho Kinase, and Myosin Light Chain Kinase. Molecular Pharmacology, 2010, 77, 903-911.	1.0	40
38	Autophagy is increased following either pharmacological or genetic silencing of mGluR5 signaling in Alzheimerâ€™s disease mouse models. Molecular Brain, 2018, 11, 19.	1.3	38
39	Rab8 Modulates Metabotropic Glutamate Receptor Subtype 1 Intracellular Trafficking and Signaling in a Protein Kinase C-Dependent Manner. Journal of Neuroscience, 2012, 32, 16933-16942.	1.7	36
40	Ca2+/Calmodulin-dependent protein Kinase II interacts with group I Metabotropic Glutamate and facilitates Receptor Endocytosis and ERK1/2 signaling: role of Î²-Amyloid. Molecular Brain, 2015, 8, 21.	1.3	36
41	Noncanonical Metabotropic Glutamate Receptor 5 Signaling in Alzheimer's Disease. Annual Review of Pharmacology and Toxicology, 2022, 62, 235-254.	4.2	36
42	Role of metabotropic glutamate receptor 5 signaling and homer in oxygen glucose deprivation-mediated astrocyte apoptosis. Molecular Brain, 2013, 6, 9.	1.3	35
43	mGluR5 Contribution to Neuropathology in Alzheimer Mice Is Disease Stage-Dependent. ACS Pharmacology and Translational Science, 2020, 3, 334-344.	2.5	34
44	Minireview: Role of Intracellular Scaffolding Proteins in the Regulation of Endocrine G Protein-Coupled Receptor Signaling. Molecular Endocrinology, 2015, 29, 814-830.	3.7	32
45	Controlled positioning of analytes and cells on a plasmonic platform for glycan sensing using surface enhanced Raman spectroscopy. Chemical Science, 2016, 7, 575-582.	3.7	31
46	PDZK1/NHERF3 Differentially Regulates Corticotropin-releasing Factor Receptor 1 and Serotonin 2A Receptor Signaling and Endocytosis. Cellular Signalling, 2015, 27, 519-531.	1.7	29
47	Somatic Mutations in GRM1 in Cancer Alter Metabotropic Glutamate Receptor 1 Intracellular Localization and Signaling. Molecular Pharmacology, 2013, 83, 770-780.	1.0	28
48	The metabotropic glutamate receptor 5 role on motor behavior involves specific neural substrates. Molecular Brain, 2015, 8, 24.	1.3	27
49	Role of SAP97 Protein in the Regulation of Corticotropin-releasing Factor Receptor 1 Endocytosis and Extracellular Signal-regulated Kinase 1/2 Signaling. Journal of Biological Chemistry, 2013, 288, 15023-15034.	1.6	26
50	mGluR5 Allosteric Modulation Promotes Neurorecovery in a 6-OHDA-Toxicant Model of Parkinsonâ€™s Disease. Molecular Neurobiology, 2020, 57, 1418-1431.	1.9	25
51	PSD-95 regulates CRFR1 localization, trafficking and Î²-arrestin2 recruitment. Cellular Signalling, 2016, 28, 531-540.	1.7	24
52	Role of Spinophilin in Group I Metabotropic Glutamate Receptor Endocytosis, Signaling, and Synaptic Plasticity. Journal of Biological Chemistry, 2016, 291, 17602-17615.	1.6	23
53	Role of SAP97 in the Regulation of 5-HT2AR Endocytosis and Signaling. Molecular Pharmacology, 2014, 86, 275-283.	1.0	22
54	GRK2 Targeted Knock-down Results in Spontaneous Hypertension, and Altered Vascular GPCR Signaling. Journal of Biological Chemistry, 2015, 290, 5141-5155.	1.6	22

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55	Neuronal scaffolding protein spinophilin is integral for cocaine-induced behavioral sensitization and ERK1/2 activation. Molecular Brain, 2019, 12, 15.	1.3	22
56	mGluR5 regulates REST/NRSF signaling through N-cadherin/Î²-catenin complex in Huntingtonâ€™s disease. Molecular Brain, 2020, 13, 118.	1.3	20
57	Metabotropic glutamate receptor 5 as a potential therapeutic target in Huntingtonâ€™s disease. Expert Opinion on Therapeutic Targets, 2014, 18, 1293-1304.	1.5	19
58	Orchestrated activation of mGluR5 and CB1 promotes neuroprotection. Molecular Brain, 2016, 9, 80.	1.3	18
59	Optineurin deletion disrupts metabotropic glutamate receptor 5-mediated regulation of ERK1/2, GSK3Î²/ZBTB16, mTOR/ULK1 signaling in autophagy. Biochemical Pharmacology, 2021, 185, 114427.	2.0	15
60	Calcineurin Inhibitor Protein (CAIN) Attenuates Group I Metabotropic Glutamate Receptor Endocytosis and Signaling. Journal of Biological Chemistry, 2009, 284, 28986-28994.	1.6	14
61	Targeting VGLUT Machinery: Implications on mGluR5 Signaling and Behavior. Molecular Pharmacology, 2020, 98, MOLPHARM-MR-2020-000089.	1.0	14
62	A positive allosteric modulator for the muscarinic receptor (M1 mAChR) improves pathology and cognitive deficits in female <scp>APPswe</scp>/PSEN1Î”E9 mice. British Journal of Pharmacology, 2022, 179, 1769-1783.	2.7	14
63	Regulation of G protein-coupled receptor trafficking and signaling by Rab GTPases. Small GTPases, 2013, 4, 132-135.	0.7	13
64	Suppression of piriform cortex activity in rat by corticotropin-releasing factor 1 and serotonin 2A/C receptors. Frontiers in Cellular Neuroscience, 2015, 09, 200.	1.8	13
65	Vascular Smooth Muscle-Specific EP4 Receptor Deletion in Mice Exacerbates Angiotensin II-Induced Renal Injury. Antioxidants and Redox Signaling, 2016, 25, 642-656.	2.5	12
66	Metabotropic Glutamate Receptor 2/3 Activation Improves Motor Performance and Reduces Pathology in Heterozygous zQ175 Huntington Disease Mice. Journal of Pharmacology and Experimental Therapeutics, 2021, 379, 74-84.	1.3	12
67	Metabotropic Glutamate Receptor 5 Antagonism Reduces Pathology and Differentially Improves Symptoms in Male and Female Heterozygous zQ175 Huntingtonâ€™s Mice. Frontiers in Molecular Neuroscience, 2022, 15, 801757.	1.4	11
68	GRK2 knockdown in mice exacerbates kidney injury and alters renal mechanisms of blood pressure regulation. Scientific Reports, 2018, 8, 11415.	1.6	10
69	The Role of Neuroglial Metabotropic Glutamate Receptors in Alzheimerâ€™s Disease. Current Neuropharmacology, 2023, 21, 273-283.	1.4	10
70	Role of cystic fibrosis transmembrane conductance regulator-associated ligand (CAL) in regulating the trafficking and signaling of corticotropin-releasing factor receptor 1. Cellular Signalling, 2015, 27, 2120-2130.	1.7	9
71	Structural determinants governing Î²-arrestin2 interaction with PDZ proteins and recruitment to CRFR1. Cellular Signalling, 2019, 63, 109361.	1.7	9
72	MAGI Proteins Regulate the Trafficking and Signaling of Corticotropin-Releasing Factor Receptor 1 via a Compensatory Mechanism. Journal of Molecular Signaling, 2016, 11, 5.	0.5	6

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73	MAGI proteins can differentially regulate the signaling pathways of 5-HT 2A R by enhancing receptor trafficking and PLC recruitment. Cellular Signalling, 2018, 47, 109-121.	1.7	6
74	Role of Dynein Axonemal Heavy Chain 6 Gene Expression as a Possible Biomarker for Huntingtonâ€™s Disease: a Translational Study. Journal of Molecular Neuroscience, 2017, 63, 342-348.	1.1	4
75	Amyloid Î² Oligomers Induce Sex-Specific Pathophysiological mGluR5 Signaling in Alzheimer Mice. SSRN Electronic Journal, 0, , .	0.4	4
76	Super-Resolution Imaging of G Protein-Coupled Receptors Using Ground State Depletion Microscopy. Methods in Molecular Biology, 2019, 1947, 323-336.	0.4	3
77	Targeting Vesicular Glutamate Transporter Machinery: Implications on Metabotropic Glutamate Receptor 5 Signaling and Behavior. Molecular Pharmacology, 2020, 98, 314-327.	1.0	2
78	mGluR5 regulates ZBTB16 pathway of autophagy in Alzheimer's disease in a sexâ€specific manner. FASEB Journal, 2019, 33, 810.5.	0.2	1
79	VGLUT3 ablation differentially modulates glutamate receptor densities in mouse brain. ENeuro, 2022, , ENEURO.0041-22.2022.	0.9	1
80	mGluR5: a potential target for the treatment of Huntington's disease. Future Neurology, 2014, 9, 289-293.	0.9	0
81	Methods to Investigate the Roles of Î²-Arrestin-Dependent RalGDS Activation in GPCR-Stimulated Membrane Blebbing. Methods in Molecular Biology, 2019, 1957, 169-175.	0.4	0
82	Ablation of optineurin impairs metabotropic glutamate receptor 5 signaling in mouse hippocampus. FASEB Journal, 2021, 35, .	0.2	0
83	Metabotropic glutamate receptor 5 (mGluR5) blockade ameliorates Huntington's disease pathology via activating convergent mechanisms of autophagy. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, OR24-3.	0.0	0