

Stephen M Lanier

List of Publications by Year in descending order

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95
papers

4,348
citations

76326

40
h-index

114465

63
g-index

95
all docs

95
docs citations

95
times ranked

2663
citing authors

#	ARTICLE	IF	CITATIONS
1	Receptor-independent Activators of Heterotrimeric G-protein Signaling Pathways. <i>Journal of Biological Chemistry</i> , 1999, 274, 33202-33205.	3.4	251
2	Asymmetrically Distributed <i>C. elegans</i> Homologs of AGS3/PINS Control Spindle Position in the Early Embryo. <i>Current Biology</i> , 2003, 13, 1029-1037.	3.9	229
3	Activator of G Protein Signaling 3. <i>Neuron</i> , 2004, 42, 269-281.	8.1	221
4	Genetic screens in yeast to identify mammalian nonreceptor modulators of G-protein signaling. <i>Nature Biotechnology</i> , 1999, 17, 878-883.	17.5	196
5	ACCESSORY PROTEINS FOR G PROTEINS: Partners in Signaling. <i>Annual Review of Pharmacology and Toxicology</i> , 2006, 46, 151-187.	9.4	171
6	Activation of Heterotrimeric G-protein Signaling by a Ras-related Protein. <i>Journal of Biological Chemistry</i> , 2000, 275, 23421-23424.	3.4	144
7	The elusive family of imidazoline binding sites. <i>Trends in Pharmacological Sciences</i> , 1996, 17, 13-16.	8.7	133
8	Selective Interaction of AGS3 with G-proteins and the Influence of AGS3 on the Activation State of G-proteins. <i>Journal of Biological Chemistry</i> , 2001, 276, 1585-1593.	3.4	131
9	Interaction of Arrestins with Intracellular Domains of Muscarinic and β_2 -Adrenergic Receptors. <i>Journal of Biological Chemistry</i> , 1997, 272, 17836-17842.	3.4	129
10	Stabilization of the GDP-bound Conformation of $G_{i\pm}$ by a Peptide Derived from the G-protein Regulatory Motif of AGS3. <i>Journal of Biological Chemistry</i> , 2000, 275, 33193-33196.	3.4	126
11	Mechanistic pathways and biological roles for receptor-independent activators of G-protein signaling. , 2007, 113, 488-506.		119
12	The Ras-related protein AGS1/RASD1 suppresses cell growth. <i>Oncogene</i> , 2004, 23, 5858-5863.	5.9	113
13	Expression Analysis and Subcellular Distribution of the Two G-protein Regulators AGS3 and LGN Indicate Distinct Functionality. <i>Journal of Biological Chemistry</i> , 2002, 277, 15897-15903.	3.4	106
14	AGS3 Inhibits GDP Dissociation from $G_{i\pm}$ Subunits of the Gi Family and Rhodopsin-dependent Activation of Transducin. <i>Journal of Biological Chemistry</i> , 2000, 275, 40981-40985.	3.4	102
15	Receptor Docking Sites for G-protein $\beta\gamma$ Subunits. <i>Journal of Biological Chemistry</i> , 1998, 273, 7197-7200.	3.4	97
16	Identification of $G_{i\pm}$ Binding Sites in the Third Intracellular Loop of the M3-muscarinic Receptor and Their Role in Receptor Regulation. <i>Journal of Biological Chemistry</i> , 2000, 275, 9026-9034.	3.4	91
17	AGS proteins: receptor-independent activators of G-protein signaling. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 470-6.	8.7	81
18	Influence of the Membrane Lipid Structure on Signal Processing via G Protein-Coupled Receptors. <i>Molecular Pharmacology</i> , 2005, 68, 210-217.	2.3	80

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19	Activator of G Protein Signaling 8 (AGS8) Is Required for Hypoxia-induced Apoptosis of Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2009, 284, 31431-31440.	3.4	74
20	Identification of a receptor-independent activator of G protein signaling (AGS8) in ischemic heart and its interaction with Gβ2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 797-802.	7.1	66
21	Activator of G-protein Signaling 1 Blocks GIRK Channel Activation by a G-protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 2002, 277, 13827-13830.	3.4	63
22	Receptor-independent activators of heterotrimeric G-proteins. <i>Life Sciences</i> , 2001, 68, 2301-2308.	4.3	62
23	Factors Determining Specificity of Signal Transduction by G-protein-coupled Receptors. <i>Journal of Biological Chemistry</i> , 1995, 270, 15269-15276.	3.4	59
24	Receptor- and Nucleotide Exchange-independent Mechanisms for Promoting G Protein Subunit Dissociation. <i>Journal of Biological Chemistry</i> , 2003, 278, 34747-34750.	3.4	59
25	Purification of Heterotrimeric G Protein α Subunits by GST-Ric-8 Association. <i>Journal of Biological Chemistry</i> , 2011, 286, 2625-2635.	3.4	59
26	Imidazoline/Guanidinium Binding Domains on Monoamine Oxidases. <i>Journal of Biological Chemistry</i> , 1995, 270, 27961-27968.	3.4	58
27	Activator of G Protein Signaling 3 Null Mice: I. Unexpected Alterations in Metabolic and Cardiovascular Function. <i>Endocrinology</i> , 2008, 149, 3842-3849.	2.8	58
28	Identification of a Truncated Form of the G-protein Regulator AGS3 in Heart That Lacks the Tetratricopeptide Repeat Domains. <i>Journal of Biological Chemistry</i> , 2001, 276, 16601-16610.	3.4	57
29	Interaction of Activator of G-protein Signaling 3 (AGS3) with LKB1, a Serine/Threonine Kinase Involved in Cell Polarity and Cell Cycle Progression. <i>Journal of Biological Chemistry</i> , 2003, 278, 23217-23220.	3.4	57
30	Dopamine induces ERK activation in renal epithelial cells through H ₂ O ₂ produced by monoamine oxidase. <i>Kidney International</i> , 2001, 59, 76-86.	5.2	56
31	Activators of G Protein Signaling Exhibit Broad Functionality and Define a Distinct Core Signaling Triad. <i>Molecular Pharmacology</i> , 2014, 85, 388-396.	2.3	54
32	Activator of G Protein Signaling 3 Promotes Epithelial Cell Proliferation in PKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1275-1280.	6.1	52
33	Loss of activator of G-protein signaling 3 impairs renal tubular regeneration following acute kidney injury in rodents. <i>FASEB Journal</i> , 2011, 25, 1844-1855.	0.5	52
34	Influence of G Protein Type on Agonist Efficacy. <i>Molecular Pharmacology</i> , 1999, 56, 651-656.	2.3	51
35	Identification of Structural Features in the G-protein Regulatory Motif Required for Regulation of Heterotrimeric G-proteins. <i>Journal of Biological Chemistry</i> , 2002, 277, 6767-6770.	3.4	51
36	Factors Determining the Specificity of Signal Transduction by Guanine Nucleotide-binding Protein-coupled Receptors. <i>Journal of Biological Chemistry</i> , 1997, 272, 16466-16473.	3.4	46

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37	Identification and Characterization of AGS4. <i>Journal of Biological Chemistry</i> , 2004, 279, 27567-27574.	3.4	46
38	Characterization of a G-protein Activator in the Neuroblastoma-Glioma Cell Hybrid NG108-15. <i>Journal of Biological Chemistry</i> , 1996, 271, 30052-30060.	3.4	45
39	AGS3 and Signal Integration by G α s- and G α i-coupled Receptors. <i>Journal of Biological Chemistry</i> , 2004, 279, 13375-13382.	3.4	44
40	Regulation of the AGS3-G α i Signaling Complex by a Seven-transmembrane Span Receptor*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33949-33958.	3.4	44
41	Analysis of the Pharmacological and Molecular Heterogeneity of α -Imidazoline-Binding Proteins using Monoamine Oxidase-Deficient Mouse Models. <i>Molecular Pharmacology</i> , 2000, 58, 1085-1090.	2.3	43
42	The G-protein regulatory (GPR) motif-containing Leu α -Gly α -Asn-enriched protein (LGN) and G α i3 influence cortical positioning of the mitotic spindle poles at metaphase in symmetrically dividing mammalian cells. <i>European Journal of Cell Biology</i> , 2006, 85, 1233-1240.	3.6	42
43	Signaling by a Non-dissociated Complex of G Protein $\beta\gamma$ and α Subunits Stimulated by a Receptor-independent Activator of G Protein Signaling, AGS8. <i>Journal of Biological Chemistry</i> , 2007, 282, 19938-19947.	3.4	38
44	Regulation of the G-protein Regulatory-G α i Signaling Complex by Nonreceptor Guanine Nucleotide Exchange Factors. <i>Journal of Biological Chemistry</i> , 2013, 288, 3003-3015.	3.4	33
45	Adenylyl cyclase isoforms and signal integration in models of vascular smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H1545-H1552.	3.2	32
46	The PDZ and Band 4.1 Containing Protein Frmpd1 Regulates the Subcellular Location of Activator of G-protein Signaling 3 and Its Interaction with G-proteins. <i>Journal of Biological Chemistry</i> , 2008, 283, 24718-24728.	3.4	30
47	Identification of Transcription Factor E3 (TFE3) as a Receptor-independent Activator of G α 16. <i>Journal of Biological Chemistry</i> , 2011, 286, 17766-17776.	3.4	30
48	AGS proteins, GPR motifs and the signals processed by heterotrimeric G proteins. <i>Biology of the Cell</i> , 2004, 96, 369-372.	2.0	26
49	Accessory Proteins for G Protein-Signaling Systems: Activators of G Protein Signaling and Other Nonreceptor Proteins Influencing the Activation State of G Proteins. <i>Receptors and Channels</i> , 2003, 9, 195-204.	1.1	26
50	Distribution of Activator of G-Protein Signaling 3 within the Aggresomal Pathway: Role of Specific Residues in the Tetratricopeptide Repeat Domain and Differential Regulation by the AGS3 Binding Partners G α i and Mammalian Inscuteable. <i>Molecular and Cellular Biology</i> , 2010, 30, 1528-1540.	2.3	23
51	Defective Chemokine Signal Integration in Leukocytes Lacking Activator of G Protein Signaling 3 (AGS3). <i>Journal of Biological Chemistry</i> , 2014, 289, 10738-10747.	3.4	23
52	The 3 α -Untranslated Region of the β 2-Adrenergic Receptor mRNA Impedes Translation of the Receptor Message. <i>Journal of Biological Chemistry</i> , 1997, 272, 15466-15473.	3.4	22
53	The Proto-oncogene SET Interacts with Muscarinic Receptors and Attenuates Receptor Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 40310-40320.	3.4	20
54	Transient high-affinity binding of agonists to β 1 -adrenergic receptors of intact liver cells. <i>FEBS Letters</i> , 1985, 187, 205-210.	2.8	19

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55	Pertussis Toxin-insensitive Activation of the Heterotrimeric G-proteins Gi/Go by the NG108-15 G-protein Activator. <i>Journal of Biological Chemistry</i> , 2002, 277, 50223-50225.	3.4	19
56	Influence of Cytosolic AGS3 on Receptor α G Protein Coupling. <i>Biochemistry</i> , 2003, 42, 8085-8093.	2.5	18
57	Inhibition by Prostaglandins of Adrenergic Transmission in the Left Ventricular Myocardium of Anesthetized Dogs. <i>Journal of Cardiovascular Pharmacology</i> , 1985, 7, 653-659.	1.9	17
58	Translocation of Activator of G-protein Signaling 3 to the Golgi Apparatus in Response to Receptor Activation and Its Effect on the trans-Golgi Network. <i>Journal of Biological Chemistry</i> , 2013, 288, 24091-24103.	3.4	16
59	Identification of Modulators of Mammalian G-Protein Signaling by Functional Screens in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 2002, 344, 153-168.	1.0	14
60	Agonist-induced isomerization of the α .1-adrenergic receptor: kinetic analysis using broken-cell and solubilized preparations. <i>Biochemistry</i> , 1986, 25, 2697-2702.	2.5	13
61	Separation of α -adrenergic and imidazoline/guanidinium receptive sites (IGRS) activity in a series of imidazoline analogues of cirazoline. <i>Bioorganic and Medicinal Chemistry</i> , 1995, 3, 1503-1509.	3.0	12
62	Group II Activators of G-protein Signaling. <i>Methods in Enzymology</i> , 2013, 522, 153-167.	1.0	11
63	Accessory proteins for G protein-signaling systems: activators of G protein signaling and other nonreceptor proteins influencing the activation state of G proteins. <i>Receptors and Channels</i> , 2003, 9, 195-204.	1.1	10
64	Dual modulation of calcium channel current via recombinant α 2-adrenoceptors in pheochromocytoma (PC-12) cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1997, 435, 280-285.	2.8	9
65	AGS3: A G-Protein Regulator of Addiction-Associated Behaviors. <i>Annals of the New York Academy of Sciences</i> , 2003, 1003, 356-357.	3.8	9
66	Identification and characterization of a G-protein regulatory motif in WAVE1. <i>FEBS Letters</i> , 2006, 580, 1993-1998.	2.8	9
67	Direct Coupling of a Seven-Transmembrane-Span Receptor to a G α 12 G-Protein Regulatory Motif Complex. <i>Molecular Pharmacology</i> , 2015, 88, 231-237.	2.3	9
68	Role of G-proteins and S/T phosphorylation sites in the transition of Activator of G-Protein signaling 3 to cell puncta. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	8
69	Partial Agonist Clonidine Mediates α 2-AR Subtypes Specific Regulation of cAMP Accumulation in Adenylyl Cyclase II Transfected DDT1-MF2 Cells. <i>Molecular Pharmacology</i> , 2001, 59, 331-338.	2.3	7
70	Influence of the Accessory Protein SET on M3 Muscarinic Receptor Phosphorylation and G Protein Coupling. <i>Molecular Pharmacology</i> , 2012, 82, 17-26.	2.3	7
71	Intersection of two key signal integrators in the cell: activator of G protein Signaling 3 and Dishevelled-2. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	4
72	Use of High Affinity, Radioiodinated Probes for Identification of Imidazoline/Guanidinium Receptive Sites. <i>Annals of the New York Academy of Sciences</i> , 1995, 763, 106-111.	3.8	3

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73	Analysis of Signal Transfer from Receptor to Go/Gi in Different Membrane Environments and Receptor-Independent Activators of Brain G Protein. <i>Methods in Enzymology</i> , 2002, 344, 140-152.	1.0	3
74	Prostaglandin E2 metabolism by isolated kidneys of New Zealand genetically hypertensive and normotensive rats. <i>Biochemical Medicine</i> , 1981, 25, 98-105.	0.5	2
75	Relationship between $\hat{\pm}$ 2-Adrenergic Receptors and Imidazoline/Guanidinium Receptive Sites. <i>Advances in Pharmacology</i> , 1997, 42, 474-477.	2.0	2
76	Protein Interaction Assays with G Proteins. <i>Methods in Enzymology</i> , 2002, 344, 521-535.	1.0	2
77	Accessory Proteins for G Protein-Signaling Systems: Activators of G Protein Signaling and Other Nonreceptor Proteins Influencing the Activation State of G Proteins. <i>Receptors and Channels</i> , 2003, 9, 195-204.	1.1	2
78	Ags1. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	2
79	AGS3 TPR domain interacting protein 2 (ATIP $\hat{\epsilon}$ 2) influences AGS3 interaction with G $\hat{\epsilon}$ protein.. <i>FASEB Journal</i> , 2006, 20, A256.	0.5	0
80	The influence of EGF, PM1 mutations and posttranslational processing on the subcellular location of AGS1/DexRas1. <i>FASEB Journal</i> , 2006, 20, A1120.	0.5	0
81	Ags3. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	0
82	The role of the tetratricopeptide repeat (TPR) domain of AGS3 in subcellular localization of the protein. <i>FASEB Journal</i> , 2008, 22, 908.3.	0.5	0
83	Selective regulation of G $\hat{\epsilon}$ protein signaling pathways by AGS3. <i>FASEB Journal</i> , 2008, 22, 908.2.	0.5	0
84	Activator of G $\hat{\epsilon}$ protein Signaling 3 null mice: unexpected alterations in metabolic and cardiovascular function. <i>FASEB Journal</i> , 2008, 22, 908.1.	0.5	0
85	The PDZ and Band 4.1 containing protein Frmpd1 influences the subcellular location of Activator of G $\hat{\epsilon}$ protein signaling 3 and its interaction with G $\hat{\epsilon}$ proteins. <i>FASEB Journal</i> , 2008, 22, 908.4.	0.5	0
86	ACTIVATOR OF G $\hat{\epsilon}$ PROTEIN SIGNALING 3: THE ROLE OF THE TETRATRICOPEPTIDE REPEAT DOMAIN IN REGULATING THE INTERACTION OF AGS3 WITH G $\hat{\epsilon}$ PROTEIN.. <i>FASEB Journal</i> , 2009, 23, 584.6.	0.5	0
87	ACTIVATOR OF G $\hat{\epsilon}$ PROTEIN SIGNALING 3: THE ROLE OF THE TETRATRICOPEPTIDE REPEAT DOMAIN IN SUBCELLULAR POSITIONING OF THE PROTEIN. <i>FASEB Journal</i> , 2009, 23, 584.5.	0.5	0
88	COUPLING OF A G $\hat{\epsilon}$ PROTEIN COUPLED RECEPTOR TO THE AGS3 $\hat{\epsilon}$ Galphi SIGNALING COMPLEX. <i>FASEB Journal</i> , 2010, 24, 587.7.	0.5	0
89	Movement of Activator of G $\hat{\epsilon}$ Protein Signaling 3 within the Aggresome Pathway. <i>FASEB Journal</i> , 2010, 24, 587.6.	0.5	0
90	Characterization of a Muscarinic M3 Receptor $\hat{\epsilon}$ Associated Protein Complex. <i>FASEB Journal</i> , 2011, 25, 1012.7.	0.5	0

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91	Mechanisms involved in the translocation of AGS3 from cell cortex to the Golgi apparatus following activation of a G-protein coupled receptor. FASEB Journal, 2012, 26, 838.5.	0.5	0
92	Defective migration in Activator of G protein Signaling 3 ^Δ leukocytes in response to CXCL12 and CCL19 stimulation. FASEB Journal, 2012, 26, 838.7.	0.5	0
93	Factors regulating the subcellular localization of Activators of G-protein Signaling 3: The role of serine/threonine residues in the G-protein regulatory domain. FASEB Journal, 2012, 26, 838.6.	0.5	0
94	Regulation of the AGS4 ^Δ G _i Interaction by Chemokine Receptors and the Non ^Δ Receptor Guanine Nucleotide Exchange Factor Ric ^Δ . FASEB Journal, 2013, 27, 1095.7.	0.5	0
95	Activators of G-Protein Signaling (AGS). , 2018, , 133-140.		0