Sudha K Shenoy

List of Publications by Citations

78 papers	10,888 citations	39 h-index	84 g-index
84 ext. papers	11,847 ext. citations	9.1 avg, IF	6.41 L-index

#	Paper	IF	Citations
78	Transduction of receptor signals by beta-arrestins. *Science*, **2005**, 308, 512-7	33.3	1394
77	Beta-arrestins and cell signaling. *Annual Review of Physiology*, **2007**, 69, 483-510	23.1	1135
76	Regulation of receptor fate by ubiquitination of activated beta 2-adrenergic receptor and beta-arrestin. *Science*, **2001**, 294, 1307-13	33.3	731
75	beta-arrestin-dependent, G protein-independent ERK1/2 activation by the beta2 adrenergic receptor. *Journal of Biological Chemistry*, **2006**, 281, 1261-73	5.4	585
74	Independent beta-arrestin 2 and G protein-mediated pathways for angiotensin II activation of extracellular signal-regulated kinases 1 and 2. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 10782-7	11.5	569
73	Arrestin-mediated receptor trafficking and signal transduction. *Trends in Pharmacological Sciences*, **2011**, 32, 521-33	13.2	519
72	A unique mechanism of beta-blocker action: carvedilol stimulates beta-arrestin signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 16657-62	11.5	466
71	Distinct phosphorylation sites on the (2)-adrenergic receptor establish a barcode that encodes differential functions of arrestin. *Science Signaling*, **2011**, 4, ra51	8.8	418
70	Differential kinetic and spatial patterns of beta-arrestin and G protein-mediated ERK activation by the angiotensin II receptor. *Journal of Biological Chemistry*, **2004**, 279, 35518-25	5.4	402
69	Multifaceted roles of beta-arrestins in the regulation of seven-membrane-spanning receptor trafficking and signalling. *Biochemical Journal*, **2003**, 375, 503-15	3.8	332
68	Functional specialization of beta-arrestin interactions revealed by proteomic analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12011-6	11.5	323
67	A stress response pathway regulates DNA damage through 2-adrenoreceptors and arrestin-1. *Nature*, **2011**, 477, 349-53	50.4	280
66	Trafficking of G protein-coupled receptors. *Circulation Research*, **2006**, 99, 570-82	15.7	252
65	beta-arrestin-biased agonism at the beta2-adrenergic receptor. *Journal of Biological Chemistry*, **2008**, 283, 5669-76	5.4	208
64	Trafficking patterns of beta-arrestin and G protein-coupled receptors determined by the kinetics of beta-arrestin deubiquitination. *Journal of Biological Chemistry*, **2003**, 278, 14498-506	5.4	207
63	Distinct conformational changes in beta-arrestin report biased agonism at seven-transmembrane receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9988-93	11.5	198
62	GPCR desensitization: Acute and prolonged phases. *Cellular Signalling*, **2018**, 41, 9-16	4.9	150

61	Nedd4 mediates agonist-dependent ubiquitination, lysosomal targeting, and degradation of the beta2-adrenergic receptor. *Journal of Biological Chemistry*, **2008**, 283, 22166-76	5.4	148
60	Constitutive protease-activated receptor-2-mediated migration of MDA MB-231 breast cancer cells requires both beta-arrestin-1 and -2. *Journal of Biological Chemistry*, **2004**, 279, 55419-24	5.4	144
59	The deubiquitinases USP33 and USP20 coordinate beta2 adrenergic receptor recycling and resensitization. *EMBO Journal*, **2009**, 28, 1684-96	13	136
58	Receptor-specific ubiquitination of beta-arrestin directs assembly and targeting of seven-transmembrane receptor signalosomes. *Journal of Biological Chemistry*, **2005**, 280, 15315-24	5.4	135
57	Beta-arrestin-dependent signaling and trafficking of 7-transmembrane receptors is reciprocally regulated by the deubiquitinase USP33 and the E3 ligase Mdm2. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6650-5	11.5	132
56	Seven-transmembrane receptor signaling through beta-arrestin. *Science Signaling*, **2005**, 2005, cm10	8.8	130
55	{beta}-Arrestin is crucial for ubiquitination and down-regulation of the insulin-like growth factor-1 receptor by acting as adaptor for the MDM2 E3 ligase. *Journal of Biological Chemistry*, **2005**, 280, 24412-9	5.4	127
54	Manifold roles of □arrestins in GPCR signaling elucidated with siRNA and CRISPR/Cas9. *Science Signaling*, **2018**, 11,	8.8	116
53	Regulation of V2 vasopressin receptor degradation by agonist-promoted ubiquitination. *Journal of Biological Chemistry*, **2003**, 278, 45954-9	5.4	111
52	Activation-dependent conformational changes in {beta}-arrestin 2. *Journal of Biological Chemistry*, **2004**, 279, 55744-53	5.4	111
51	Ubiquitination of beta-arrestin links seven-transmembrane receptor endocytosis and ERK activation. *Journal of Biological Chemistry*, **2007**, 282, 29549-62	5.4	109
50	Beta-arrestin and Mdm2 mediate IGF-1 receptor-stimulated ERK activation and cell cycle progression. *Journal of Biological Chemistry*, **2007**, 282, 11329-38	5.4	100
49	Seven-transmembrane receptors and ubiquitination. *Circulation Research*, **2007**, 100, 1142-54	15.7	90
48	G Protein-Coupled Receptor Signaling Through □Arrestin-Dependent Mechanisms. *Journal of Cardiovascular Pharmacology*, **2017**, 70, 142-158	3.1	84
47	Distinct roles for □arrestin2 and arrestin-domain-containing proteins in □2 adrenergic receptor trafficking. *EMBO Reports*, **2013**, 14, 164-71	6.5	84
46	Phosphorylation of beta-arrestin2 regulates its function in internalization of beta(2)-adrenergic receptors. *Biochemistry*, **2002**, 41, 10692-9	3.2	81
45	Arresting a transient receptor potential (TRP) channel: beta-arrestin 1 mediates ubiquitination and functional down-regulation of TRPV4. *Journal of Biological Chemistry*, **2010**, 285, 30115-25	5.4	80
44	□arrestin1 mediates metastatic growth of breast cancer cells by facilitating HIF-1-dependent VEGF expression. *Oncogene*, **2012**, 31, 282-92	9.2	56

43	beta-arrestin-1 competitively inhibits insulin-induced ubiquitination and degradation of insulin receptor substrate 1. *Molecular and Cellular Biology*, **2004**, 24, 8929-37	4.8	52
42	MARCH2 promotes endocytosis and lysosomal sorting of carvedilol-bound (2)-adrenergic receptors. *Journal of Cell Biology*, **2012**, 199, 817-30	7.3	49
41	Beta2-adrenergic receptor lysosomal trafficking is regulated by ubiquitination of lysyl residues in two distinct receptor domains. *Journal of Biological Chemistry*, **2011**, 286, 12785-95	5.4	45
40	Angiotensin II-stimulated signaling through G proteins and beta-arrestin. *Science Signaling*, **2005**, 2005, cm14	8.8	42
39	Reconstitution of mitochondrial processing peptidase from the core proteins (subunits I and II) of bovine heart mitochondrial cytochrome bc(1) complex. *Journal of Biological Chemistry*, **2001**, 276, 6499-505	5.4	37
38	G protein-coupled receptor kinase-5 attenuates atherosclerosis by regulating receptor tyrosine kinases and 7-transmembrane receptors. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 308-16	9.4	34
37	Ubiquitin-Related Roles of Arrestins in Endocytic Trafficking and Signal Transduction. *Journal of Cellular Physiology*, **2016**, 231, 2071-80	7	34
36	Ubiquitin-specific Protease 20 Regulates the Reciprocal Functions of Arrestin2 in Toll-like Receptor 4-promoted Nuclear Factor B (NFB) Activation. *Journal of Biological Chemistry*, **2016**, 291, 7450-64	5.4	33
35	Arrestins and protein ubiquitination. *Progress in Molecular Biology and Translational Science*, **2013**, 118, 175-204	4	32
34	Microgravity induces proteomics changes involved in endoplasmic reticulum stress and mitochondrial protection. *Scientific Reports*, **2016**, 6, 34091	4.9	29
33	Phosphorylation of the deubiquitinase USP20 by protein kinase A regulates post-endocytic trafficking of 2 adrenergic receptors to autophagosomes during physiological stress. *Journal of Biological Chemistry*, **2015**, 290, 8888-903	5.4	27
32	The smallest membrane anchoring subunit (QPs3) of bovine heart mitochondrial succinate-ubiquinone reductase. Cloning, sequencing, topology, and Q-binding domain. *Journal of Biological Chemistry*, **1997**, 272, 17867-72	5.4	27
31	Identification of quinone-binding and heme-ligating residues of the smallest membrane-anchoring subunit (QPs3) of bovine heart mitochondrial succinate:ubiquinone reductase. *Journal of Biological Chemistry*, **1999**, 274, 8717-22	5.4	21
30	Chapter One - Ubiquitination and Deubiquitination of G Protein-Coupled Receptors. *Progress in Molecular Biology and Translational Science*, **2016**, 141, 1-55	4	21
29	USP20 (Ubiquitin-Specific Protease 20) Inhibits TNF (Tumor Necrosis Factor)-Triggered Smooth Muscle Cell Inflammation and Attenuates Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2295-2305	9.4	17
28	Subunit IV of cytochrome bc1 complex from Rhodobacter sphaeroides. Localization of regions essential for interaction with the three-subunit core complex. *Journal of Biological Chemistry*, **2000**, 275, 15287-94	5.4	16
27	Reciprocal regulation of the platelet-derived growth factor receptor-beta and G protein-coupled receptor kinase 5 by cross-phosphorylation: effects on catalysis. *Molecular Pharmacology*, **2009**, 75, 626-36	4.3	15
26	Structural basis of multifunctional bovine mitochondrial cytochrome bc1 complex. *Journal of Bioenergetics and Biomembranes*, **1999**, 31, 191-9	3.7	14

25	Regulation of inflammation by β-arrestins: Not just receptor tales. *Cellular Signalling*, **2018**, 41, 41-45	4.9	13
24	Arrestin interaction with E3 ubiquitin ligases and deubiquitinases: functional and therapeutic implications. *Handbook of Experimental Pharmacology*, **2014**, 219, 187-203	3.2	13
23	The role of the supernumerary subunit of Rhodobacter sphaeroides cytochrome bc1 complex. *Journal of Bioenergetics and Biomembranes*, **1999**, 31, 251-7	3.7	13
22	Mdm2 regulates cardiac contractility by inhibiting GRK2-mediated desensitization of β-adrenergic receptor signaling. *JCI Insight*, **2017**, 2,	9.9	11
21	β-arrestin-biased signaling by the β-adrenergic receptors. *Current Topics in Membranes*, **2011**, 67, 51-78	2.2	11
20	Chapter Nine - Cellular Roles of Beta-Arrestins as Substrates and Adaptors of Ubiquitination and Deubiquitination. *Progress in Molecular Biology and Translational Science*, **2016**, 141, 339-69	4	11
19	The deubiquitinase ubiquitin-specific protease 20 is a positive modulator of myocardial β-adrenergic receptor expression and signaling. *Journal of Biological Chemistry*, **2019**, 294, 2500-2518	5.4	10
18	β-Arrestin and dishevelled coordinate biased signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19839-40	11.5	9
17	Interleukin-9 mediates chronic kidney disease-dependent vein graft disease: a role for mast cells. *Cardiovascular Research*, **2017**, 113, 1551-1559	9.9	8
16	A Tale of Two Sites β How ubiquitination of a G protein-coupled receptor is coupled to its lysosomal trafficking from distinct receptor domains. *Communicative and Integrative Biology*, **2011**, 4, 528-531	1.7	8
15	Identification of amino acid residues involved in structural and ubiquinone-binding functions of subunit IV of the cytochrome bc1 complex from Rhodobacter sphaeroides. *Journal of Biological Chemistry*, **1995**, 270, 11496-501	5.4	7
14	A tale of two sites: How ubiquitination of a G protein-coupled receptor is coupled to its lysosomal trafficking from distinct receptor domains. *Communicative and Integrative Biology*, **2011**, 4, 528-31	1.7	7
13	SnapShot: β-Arrestin Functions. *Cell*, **2020**, 182, 1362-1362.e1	56.2	7
12	Drebrin regulates angiotensin II-induced aortic remodelling. *Cardiovascular Research*, **2018**, 114, 1806-1815	9.9	5
11	Deubiquitinases and their emerging roles in β-arrestin-mediated signaling. *Methods in Enzymology*, **2014**, 535, 351-70	1.7	5
10	Encoding the β-Arrestin Trafficking Fate of Ghrelin Receptor GHSR1a: C-Tail-Independent Molecular Determinants in GPCRs. *ACS Pharmacology and Translational Science*, **2019**, 2, 230-246	5.9	4
9	Detection of β-Arrestin-Mediated G Protein-Coupled Receptor Ubiquitination Using BRET. *Methods in Molecular Biology*, **2019**, 1957, 93-104	1.4	4
8	Cardiovascular biology: heart fails without pump partner. *Nature*, **2011**, 477, 546-7	50.4	4

7	Agonist-activated glucagon receptors are deubiquitinated at early endosomes by two distinct deubiquitinases to facilitate Rab4a-dependent recycling. *Journal of Biological Chemistry*, **2020**, 295, 16630-16642	5.4	4
6	In-frame fusion of SUMO1 enhances β-arrestin2/β2 association with activated GPCRs as well as with nuclear pore complexes. *Cellular Signalling*, **2020**, 75, 109759	4.9	1
5	The Crystal Structure of Mitochondrial Cytochrome bc1 Complex **1999**, 263-289		1
4	A novel anti-inflammatory signaling role for the deubiquitinase USP20 in vivo (1065.5). *FASEB Journal*, **2014**, 28, 1065.5	0.9	
3	Visualizing G protein-coupled receptor signalsomes using confocal immunofluorescence microscopy. *Methods in Molecular Biology*, **2011**, 756, 333-42	1.4	
2	β-arrestin2 and ARRDC proteins have distinct roles in β2AR trafficking and signaling. *FASEB Journal*, **2012**, 26, 665.4	0.9	
1	A single phenylalanine residue in β-arrestin2 critically regulates its binding to G protein-coupled receptors.. *Journal of Biological Chemistry*, **2022**, 101837	5.4	