Karnam S Murthy

List of Publications by Year
in descending order

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57	1,845	331538	265120
papers	citations	21 h-index	42 g-index

57	57	57	2437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decreased smooth muscle function, peristaltic activity, and gastrointestinal transit in dystrophic (mdx) mice. Neurogastroenterology and Motility, 2021, 33, e13968.	1.6	13
2	COVID-19 and gastrointestinal system: A brief review. Biomedical Journal, 2021, 44, 245-251.	1.4	11
3	Obituary for Dr. Gabriel M. Makhlouf. Neurogastroenterology and Motility, 2021, 33, e14272.	1.6	0
4	Expression and function of umami receptors T1R1/T1R3 in gastric smooth muscle. Neurogastroenterology and Motility, 2020, 32, e13737.	1.6	7
5	Expression patterns of l-amino acid receptors in the murine STC-1 enteroendocrine cell line. Cell and Tissue Research, 2019, 378, 471-483.	1.5	7
6	Muscarinic m2 receptorâ€mediated actin polymerization via PI3 kinase Î³ and integrinâ€linked kinase in gastric smooth muscle. Neurogastroenterology and Motility, 2019, 31, e13495.	1.6	6
7	Identification of expression and function of the glucagon-like peptide-1 receptor in colonic smooth muscle. Peptides, 2019, 112, 48-55.	1.2	15
8	Branched Short-Chain Fatty Acid Isovaleric Acid Causes Colonic Smooth Muscle Relaxation via cAMP/PKA Pathway. Digestive Diseases and Sciences, 2019, 64, 1171-1181.	1.1	41
9	Hydrogen Sulfide Improves Aberrant Gastric Smooth Muscle Function in Duchenne Muscular Dystrophy Mice. FASEB Journal, 2019, 33, 821.8.	0.2	0
10	Restoration of Contractile Protein Expression and Colonic Smooth Muscle Function by H 2 S in Duchenne Muscular Dystrophy Mice. FASEB Journal, 2019, 33, 821.5.	0.2	0
11	Regulation of gastric smooth muscle contraction via Ca2+-dependent and Ca2+-independent actin polymerization. PLoS ONE, 2018, 13, e0209359.	1.1	5
12	Inhibition of RhoA/Rho kinase pathway and smooth muscle contraction by hydrogen sulfide. Pharmacology Research and Perspectives, 2017, 5, e00343.	1.1	17
13	Augmentation of cGMP/PKG pathway and colonic motility by hydrogen sulfide. American Journal of Physiology - Renal Physiology, 2017, 313, G330-G341.	1.6	21
14	Regulator of G protein signaling 4 is a novel target of GATA-6 transcription factor. Biochemical and Biophysical Research Communications, 2017, 483, 923-929.	1.0	6
15	Cyclic-AMP regulates postnatal development of neural and behavioral responses to NaCl in rats. PLoS ONE, 2017, 12, e0171335.	1.1	4
16	Diabetes-induced oxidative stress mediates upregulation of RhoA/Rho kinase pathway and hypercontractility of gastric smooth muscle. PLoS ONE, 2017, 12, e0178574.	1.1	20
17	Nicotine-Induced Effects on Nicotinic Acetylcholine Receptors (nAChRs), Ca2+ and Brain-Derived Neurotrophic Factor (BDNF) in STC-1 Cells. PLoS ONE, 2016, 11, e0166565.	1.1	13
18	Immune/Inflammatory Response and Hypocontractility of Rabbit Colonic Smooth Muscle After TNBS-Induced Colitis. Digestive Diseases and Sciences, 2016, 61, 1925-1940.	1.1	9

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19	Activation of Transmembrane Bile Acid Receptor TGR5 Modulates Pancreatic Islet Î± Cells to Promote Glucose Homeostasis. Journal of Biological Chemistry, 2016, 291, 6626-6640.	1.6	100
20	Cytokine-Induced S-Nitrosylation of Soluble Guanylyl Cyclase and Expression of Phosphodiesterase 1A Contribute to Dysfunction of Longitudinal Smooth Muscle Relaxation. Journal of Pharmacology and Experimental Therapeutics, 2015, 352, 509-518.	1.3	18
21	Inhibition of RhoA-dependent pathway and contraction by endogenous hydrogen sulfide in rabbit gastric smooth muscle cells. American Journal of Physiology - Cell Physiology, 2015, 308, C485-C495.	2.1	26
22	Noncanonical STAT3 Activation Regulates Excess TGF-Î²1 and Collagen I Expression in Muscle of Stricturing Crohnâ€™s Disease. Journal of Immunology, 2015, 194, 3422-3431.	0.4	93
23	Activation of the umami taste receptor (T1R1/T1R3) initiates the peristaltic reflex and pellet propulsion in the distal colon. American Journal of Physiology - Renal Physiology, 2014, 307, G1100-G1107.	1.6	42
24	Cytokine-induced iNOS and ERK1/2 inhibit adenylyl cyclase type 5/6 activity and stimulate phosphodiesterase 4D5 activity in intestinal longitudinal smooth muscle. American Journal of Physiology - Cell Physiology, 2014, 307, C402-C411.	2.1	9
25	Jun kinase-induced overexpression of leukemia-associated Rho GEF (LARG) mediates sustained hypercontraction of longitudinal smooth muscle in inflammation. American Journal of Physiology - Cell Physiology, 2014, 306, C1129-C1141.	2.1	9
26	Release of GLP-1 and PYY in response to the activation of G protein-coupled bile acid receptor TGR5 is mediated by Epac/PLC-ÃŽÂµ pathway and modulated by endogenous H2S. Frontiers in Physiology, 2014, 5, 420.	1.3	86
27	The short chain fatty acids, butyrate and propionate, have differential effects on the motility of the guinea pig colon. Neurogastroenterology and Motility, 2014, 26, 1586-1596.	1.6	100
28	Hypercontractility of Intestinal Longitudinal Smooth Muscle Induced by Cytokines Is Mediated by the Nuclear Factor-Î°B/AMP-Activated Kinase/Myosin Light Chain Kinase Pathway. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 89-98.	1.3	20
29	Role of various kinases in muscarinic M3 receptor-mediated contraction of longitudinal muscle of rat colon. Journal of Smooth Muscle Research, 2014, 50, 103-119.	0.7	9
30	Differential regulation of muscarinic M₂ and M₃ receptor signaling in gastrointestinal smooth muscle by caveolin-1. American Journal of Physiology - Cell Physiology, 2013, 305, C334-C347.	2.1	18
31	Activation of G protein-coupled bile acid receptor, TGR5, induces smooth muscle relaxation via both Epac- and PKA-mediated inhibition of RhoA/Rho kinase pathway. American Journal of Physiology - Renal Physiology, 2013, 304, G527-G535.	1.6	65
32	Increased PDE5 activity and decreased Rho kinase and PKC activities in colonic muscle from caveolin-1^{â^'/â^'} mice impair the peristaltic reflex and propulsion. American Journal of Physiology - Renal Physiology, 2013, 305, G964-G974.	1.6	8
33	Characterization of Gzâ€Coupled Dopamine D3 Receptors in Gastric Smooth Muscle. FASEB Journal, 2012, 26, 1075.22.	0.2	0
34	Proteaseâ€activated receptorâ€2 reduces cycloheximideâ€induced apoptosis in K562 myeloid leukemia cells. FASEB Journal, 2011, 25, lb311.	0.2	0
35	Pituitary Adenylate Cyclaseâ€Activating Peptide (PACAP) and Substance P (SP) induce the release of Brainâ€Derived Neurotropic Factor (BDNF) from the longitudinal muscle layer of the intestine. FASEB Journal, 2011, 25, 1070.4.	0.2	2
36	Regulation of RhoAâ€Dependent Sustained Contraction by Caveolinâ€1 in Gastric Smooth Muscle. FASEB Journal, 2011, 25, 1059.5.	0.2	0

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37	Differences in the Expression of Multiâ€Drug Resistant Protein 5 (MRP5) and Regulation of cGMP Levels in Phasic and Tonic Smooth Muscles. FASEB Journal, 2011, 25, 1059.4.	0.2	0
38	Agonistâ€Induced Rho Kinase and ZIP kinase Activity Levels in Different Regions of the Stomach. FASEB Journal, 2011, 25, 1059.3.	0.2	0
39	Characterization of Melatonin Receptors and Signaling Pathways in Gastrointestinal Smooth Muscle. FASEB Journal, 2010, 24, 1008.3.	0.2	0
40	Expression of PDE5 and its stimulation by cGMPâ€dependent protein kinase (PKG) determine the magnitude of smooth muscle relaxation in different regions of the stomach. FASEB Journal, 2010, 24, 1008.4.	0.2	0
41	Upâ€regulation of RGS2 Mediate ILâ€1betaâ€Induced Decrease in Muscle Contraction in Response to NPRâ€C activation in Tenia Coli. FASEB Journal, 2009, 23, 983.3.	0.2	0
42	Inhibitory Phosphorylation of Soluble Guanylyl Cyclase by Muscarinic m2 Receptors via Gî²î³-Dependent Activation of c-Src Kinase. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 183-189.	1.3	15
43	Phosphorylation of GRK2 by PKA augments GRK2-mediated phosphorylation, internalization, and desensitization of VPAC2 receptors in smooth muscle. American Journal of Physiology - Cell Physiology, 2008, 294, C477-C487.	2.1	29
44	Stimulatory phosphorylation of cAMP-specific PDE4D5 by contractile agonists is mediated by PKC-dependent inactivation of protein phosphatase 2A. American Journal of Physiology - Renal Physiology, 2008, 294, G327-G335.	1.6	6
45	SIGNALING FOR CONTRACTION AND RELAXATION IN SMOOTH MUSCLE OF THE GUT. Annual Review of Physiology, 2006, 68, 345-374.	5.6	310
46	Activation of PLC-Î´1 by Gi/o-coupled receptor agonists. American Journal of Physiology - Cell Physiology, 2004, 287, C1679-C1687.	2.1	39
47	Modulation of soluble guanylate cyclase activity by phosphorylation. Neurochemistry International, 2004, 45, 845-851.	1.9	21
48	Differential signalling by muscarinic receptors in smooth muscle: m2-mediated inactivation of myosin light chain kinase via Gi3, Cdc42/Rac1 and p21-activated kinase 1 pathway, and m3-mediated MLC20 (20ÂkDa) Tj ETQq0 0 0 rgBT /Over targeting subunit 1 and protein kinase C/CPI-17 pathway. Biochemical Journal, 2003, 374, 145-155.	1.7	134
49	Inhibition of sustained smooth muscle contraction by PKA and PKG preferentially mediated by phosphorylation of RhoA. American Journal of Physiology - Renal Physiology, 2003, 284, G1006-G1016.	1.6	98
50	Selective phosphorylation of the IP₃R-I in vivo by cGMP-dependent protein kinase in smooth muscle. American Journal of Physiology - Renal Physiology, 2003, 284, G221-G230.	1.6	53
51	PKA-dependent activation of PDE3A and PDE4 and inhibition of adenylyl cyclase V/VI in smooth muscle. American Journal of Physiology - Cell Physiology, 2002, 282, C508-C517.	2.1	88
52	Activation of phosphodiesterase 5 and inhibition of guanylate cyclase by cGMP-dependent protein kinase in smooth muscle. Biochemical Journal, 2001, 360, 199.	1.7	50
53	Activation of phosphodiesterase 5 and inhibition of guanylate cyclase by cGMP-dependent protein kinase in smooth muscle. Biochemical Journal, 2001, 360, 199-208.	1.7	78
54	Heterologous Desensitization Mediated by G Protein-specific Binding to Caveolin. Journal of Biological Chemistry, 2000, 275, 30211-30219.	1.6	76

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55	Longitudinal smooth muscle of the mammalian intestine. Cell Biochemistry and Biophysics, 1998, 28, 31-44.	0.9	25
56	cGMP-mediated Ca²⁺release from IP₃-insensitive Ca²⁺stores in smooth muscle. American Journal of Physiology - Cell Physiology, 1998, 274, C1199-C1205.	2.1	21
57	Smooth Muscle of the Gut. , 0, , 103-132.		2