

Karnam S Murthy

List of Publications by Year in descending order

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57
papers

1,845
citations

331670

21
h-index

265206

42
g-index

57
all docs

57
docs citations

57
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Decreased smooth muscle function, peristaltic activity, and gastrointestinal transit in dystrophic (<i>mdx</i>) mice. <i>Neurogastroenterology and Motility</i> , 2021, 33, e13968.	3.0	13
2	COVID-19 and gastrointestinal system: A brief review. <i>Biomedical Journal</i> , 2021, 44, 245-251.	3.1	11
3	Obituary for Dr. Gabriel M. Makhlof. <i>Neurogastroenterology and Motility</i> , 2021, 33, e14272.	3.0	0
4	Expression and function of umami receptors T1R1/T1R3 in gastric smooth muscle. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13737.	3.0	7
5	Expression patterns of l-amino acid receptors in the murine STC-1 enteroendocrine cell line. <i>Cell and Tissue Research</i> , 2019, 378, 471-483.	2.9	7
6	Muscarinic m2 receptor-mediated actin polymerization via PI3 kinase β and integrin-linked kinase in gastric smooth muscle. <i>Neurogastroenterology and Motility</i> , 2019, 31, e13495.	3.0	6
7	Identification of expression and function of the glucagon-like peptide-1 receptor in colonic smooth muscle. <i>Peptides</i> , 2019, 112, 48-55.	2.4	15
8	Branched Short-Chain Fatty Acid Isovaleric Acid Causes Colonic Smooth Muscle Relaxation via cAMP/PKA Pathway. <i>Digestive Diseases and Sciences</i> , 2019, 64, 1171-1181.	2.3	41
9	Hydrogen Sulfide Improves Aberrant Gastric Smooth Muscle Function in Duchenne Muscular Dystrophy Mice. <i>FASEB Journal</i> , 2019, 33, 821.8.	0.5	0
10	Restoration of Contractile Protein Expression and Colonic Smooth Muscle Function by H ₂ S in Duchenne Muscular Dystrophy Mice. <i>FASEB Journal</i> , 2019, 33, 821.5.	0.5	0
11	Regulation of gastric smooth muscle contraction via Ca ²⁺ -dependent and Ca ²⁺ -independent actin polymerization. <i>PLoS ONE</i> , 2018, 13, e0209359.	2.5	5
12	Inhibition of RhoA/Rho kinase pathway and smooth muscle contraction by hydrogen sulfide. <i>Pharmacology Research and Perspectives</i> , 2017, 5, e00343.	2.4	17
13	Augmentation of cGMP/PKG pathway and colonic motility by hydrogen sulfide. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, G330-G341.	3.4	21
14	Regulator of G protein signaling 4 is a novel target of GATA-6 transcription factor. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 923-929.	2.1	6
15	Cyclic-AMP regulates postnatal development of neural and behavioral responses to NaCl in rats. <i>PLoS ONE</i> , 2017, 12, e0171335.	2.5	4
16	Diabetes-induced oxidative stress mediates upregulation of RhoA/Rho kinase pathway and hypercontractility of gastric smooth muscle. <i>PLoS ONE</i> , 2017, 12, e0178574.	2.5	20
17	Nicotine-Induced Effects on Nicotinic Acetylcholine Receptors (nAChRs), Ca ²⁺ and Brain-Derived Neurotrophic Factor (BDNF) in STC-1 Cells. <i>PLoS ONE</i> , 2016, 11, e0166565.	2.5	13
18	Immune/Inflammatory Response and Hypocontractility of Rabbit Colonic Smooth Muscle After TNBS-Induced Colitis. <i>Digestive Diseases and Sciences</i> , 2016, 61, 1925-1940.	2.3	9

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19	Activation of Transmembrane Bile Acid Receptor TGR5 Modulates Pancreatic Islet β Cells to Promote Glucose Homeostasis. <i>Journal of Biological Chemistry</i> , 2016, 291, 6626-6640.	3.4	100
20	Cytokine-Induced S-Nitrosylation of Soluble Guanylyl Cyclase and Expression of Phosphodiesterase 1A Contribute to Dysfunction of Longitudinal Smooth Muscle Relaxation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 352, 509-518.	2.5	18
21	Inhibition of RhoA-dependent pathway and contraction by endogenous hydrogen sulfide in rabbit gastric smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C485-C495.	4.6	26
22	Noncanonical STAT3 Activation Regulates Excess TGF- β 21 and Collagen I Expression in Muscle of Stricturing Crohn's Disease. <i>Journal of Immunology</i> , 2015, 194, 3422-3431.	0.8	93
23	Activation of the umami taste receptor (T1R1/T1R3) initiates the peristaltic reflex and pellet propulsion in the distal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G1100-G1107.	3.4	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. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C402-C411.	4.6	9
25	Jun kinase-induced overexpression of leukemia-associated Rho GEF (LARG) mediates sustained hypercontraction of longitudinal smooth muscle in inflammation. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C1129-C1141.	4.6	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- β pathway and modulated by endogenous H ₂ S. <i>Frontiers in Physiology</i> , 2014, 5, 420.	2.8	86
27	The short chain fatty acids, butyrate and propionate, have differential effects on the motility of the guinea pig colon. <i>Neurogastroenterology and Motility</i> , 2014, 26, 1586-1596.	3.0	100
28	Hypercontractility of Intestinal Longitudinal Smooth Muscle Induced by Cytokines Is Mediated by the Nuclear Factor- κ B/AMP-Activated Kinase/Myosin Light Chain Kinase Pathway. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 89-98.	2.5	20
29	Role of various kinases in muscarinic M3 receptor-mediated contraction of longitudinal muscle of rat colon. <i>Journal of Smooth Muscle Research</i> , 2014, 50, 103-119.	1.2	9
30	Differential regulation of muscarinic M ₂ and M ₃ receptor signaling in gastrointestinal smooth muscle by caveolin-1. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C334-C347.	4.6	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. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, G527-G535.	3.4	65
32	Increased PDE5 activity and decreased Rho kinase and PKC activities in colonic muscle from caveolin-1 ^{-/-} mice impair the peristaltic reflex and propulsion. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, G964-G974.	3.4	8
33	Characterization of G-coupled Dopamine D3 Receptors in Gastric Smooth Muscle. <i>FASEB Journal</i> , 2012, 26, 1075.22.	0.5	0
34	Protease-activated receptor-2 reduces cycloheximide-induced apoptosis in K562 myeloid leukemia cells. <i>FASEB Journal</i> , 2011, 25, 1b311.	0.5	0
35	Pituitary Adenylate Cyclase-Activating Peptide (PACAP) and Substance P (SP) induce the release of Brain-Derived Neurotrophic Factor (BDNF) from the longitudinal muscle layer of the intestine. <i>FASEB Journal</i> , 2011, 25, 1070.4.	0.5	2
36	Regulation of RhoA-Dependent Sustained Contraction by Caveolin-1 in Gastric Smooth Muscle. <i>FASEB Journal</i> , 2011, 25, 1059.5.	0.5	0

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37	Differences in the Expression of Multi-Drug Resistant Protein 5 (MRP5) and Regulation of cGMP Levels in Phasic and Tonic Smooth Muscles. <i>FASEB Journal</i> , 2011, 25, 1059.4.	0.5	0
38	Agonist-Induced Rho Kinase and ZIP Kinase Activity Levels in Different Regions of the Stomach. <i>FASEB Journal</i> , 2011, 25, 1059.3.	0.5	0
39	Characterization of Melatonin Receptors and Signaling Pathways in Gastrointestinal Smooth Muscle. <i>FASEB Journal</i> , 2010, 24, 1008.3.	0.5	0
40	Expression of PDE5 and its stimulation by cGMP-dependent protein kinase (PKG) determine the magnitude of smooth muscle relaxation in different regions of the stomach. <i>FASEB Journal</i> , 2010, 24, 1008.4.	0.5	0
41	Up-regulation of RGS2 Mediate IL-1 beta-Induced Decrease in Muscle Contraction in Response to NPR-activation in Tenia Coli. <i>FASEB Journal</i> , 2009, 23, 983.3.	0.5	0
42	Inhibitory Phosphorylation of Soluble Guanylyl Cyclase by Muscarinic m2 Receptors via G β -Dependent Activation of c-Src Kinase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 325, 183-189.	2.5	15
43	Phosphorylation of GRK2 by PKA augments GRK2-mediated phosphorylation, internalization, and desensitization of VPAC2 receptors in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C477-C487.	4.6	29
44	Stimulatory phosphorylation of cAMP-specific PDE4D5 by contractile agonists is mediated by PKC-dependent inactivation of protein phosphatase 2A. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G327-G335.	3.4	6
45	SIGNALING FOR CONTRACTION AND RELAXATION IN SMOOTH MUSCLE OF THE GUT. <i>Annual Review of Physiology</i> , 2006, 68, 345-374.	13.1	310
46	Activation of PLC- β 1 by Gi/o-coupled receptor agonists. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1679-C1687.	4.6	39
47	Modulation of soluble guanylate cyclase activity by phosphorylation. <i>Neurochemistry International</i> , 2004, 45, 845-851.	3.8	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 (20 kDa) targeting subunit 1 and protein kinase C/CPI-17 pathway. <i>Biochemical Journal</i> , 2003, 374, 145-155.	3.7	134
49	Inhibition of sustained smooth muscle contraction by PKA and PKG preferentially mediated by phosphorylation of RhoA. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, G1006-G1016.	3.4	98
50	Selective phosphorylation of the IP ₃ R-1 in vivo by cGMP-dependent protein kinase in smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, G221-G230.	3.4	53
51	PKA-dependent activation of PDE3A and PDE4 and inhibition of adenylyl cyclase V/VI in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C508-C517.	4.6	88
52	Activation of phosphodiesterase 5 and inhibition of guanylate cyclase by cGMP-dependent protein kinase in smooth muscle. <i>Biochemical Journal</i> , 2001, 360, 199.	3.7	50
53	Activation of phosphodiesterase 5 and inhibition of guanylate cyclase by cGMP-dependent protein kinase in smooth muscle. <i>Biochemical Journal</i> , 2001, 360, 199-208.	3.7	78
54	Heterologous Desensitization Mediated by G Protein-specific Binding to Caveolin. <i>Journal of Biological Chemistry</i> , 2000, 275, 30211-30219.	3.4	76

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55	Longitudinal smooth muscle of the mammalian intestine. Cell Biochemistry and Biophysics, 1998, 28, 31-44.	1.8	25
56	cGMP-mediated Ca ²⁺ release from IP ₃ -insensitive Ca ²⁺ stores in smooth muscle. American Journal of Physiology - Cell Physiology, 1998, 274, C1199-C1205.	4.6	21
57	Smooth Muscle of the Gut. , 0, , 103-132.		2