

# Satish Rattan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/828683/publications.pdf>

Version: 2024-02-01

102  
papers

3,612  
citations

117625

34  
h-index

149698

56  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1802  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for the presence and release of BDNF in the neuronal and non-neuronal structures of the internal anal sphincter. <i>Neurogastroenterology and Motility</i> , 2022, 34, e14099.	3.0	40
2	In the memory of our following colleagues, and friends. <i>Neurogastroenterology and Motility</i> , 2022, 34, e14393.	3.0	1
3	BDNF rescues aging-associated internal anal sphincter dysfunction. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G87-G97.	3.4	29
4	BDNF augments rat internal anal sphincter smooth muscle tone via RhoA/ROCK signaling and nonadrenergic noncholinergic relaxation via increased NO release. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G23-G33.	3.4	37
5	Increased expression of desmin and vimentin reduces bladder smooth muscle contractility via JNK2. <i>FASEB Journal</i> , 2020, 34, 2126-2146.	0.5	5
6	Downregulation of thromboxane A2 and angiotensin II type 1 receptors associated with aging-related decrease in internal anal sphincter tone. <i>Scientific Reports</i> , 2019, 9, 6759.	3.3	7
7	NF- $\kappa$ B and GATA-Binding Factor 6 Repress Transcription of Caveolins in Bladder Smooth Muscle Hypertrophy. <i>American Journal of Pathology</i> , 2019, 189, 847-867.	3.8	5
8	Acidosis potentiates endothelium-dependent vasorelaxation and gap junction communication in the superior mesenteric artery. <i>European Journal of Pharmacology</i> , 2018, 827, 22-31.	3.5	8
9	In vivo magnetofection: a novel approach for targeted topical delivery of nucleic acids for rectoanal motility disorders. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, G109-G118.	3.4	12
10	Role of differentially expressed microRNA-139-5p in the regulation of phenotypic internal anal sphincter smooth muscle tone. <i>Scientific Reports</i> , 2017, 7, 1477.	3.3	8
11	Ca <sup>2+</sup> /calmodulin/MLCK pathway initiates, and RhoA/ROCK maintains, the internal anal sphincter smooth muscle tone. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, G63-G66.	3.4	23
12	Aging-associated changes in microRNA expression profile of internal anal sphincter smooth muscle: Role of microRNA-133a. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G964-G973.	3.4	23
13	Role of microRNAs in gastrointestinal smooth muscle fibrosis and dysfunction: novel molecular perspectives on the pathophysiology and therapeutic targeting. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G449-G459.	3.4	11
14	Association between common variable immunodeficiency and collagenous infiltrative disorders of the gastrointestinal tract: A series of four patients. <i>Indian Journal of Gastroenterology</i> , 2016, 35, 133-138.	1.4	8
15	Role of muscarinic-3 receptor antibody in systemic sclerosis: correlation with disease duration and effects of IVIG. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G1052-G1060.	3.4	49
16	Nature of extracellular signal that triggers RhoA/ROCK activation for the basal internal anal sphincter tone in humans. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G924-G933.	3.4	16
17	Role of SM22 in the differential regulation of phasic vs. tonic smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G605-G612.	3.4	6
18	Bimodal effect of oxidative stress in internal anal sphincter smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G292-G300.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Survey of anal sphincter dysfunction using anal manometry in patients with fecal incontinence: a possible guide to therapy. <i>Annals of Gastroenterology</i> , 2015, 28, 469-74.	0.6	8
20	Heme oxygenase-1 upregulation modulates tone and fibroelastic properties of internal anal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G595-G601.	3.4	6
21	Aging-associated oxidative stress leads to decrease in IAS tone via RhoA/ROCK downregulation. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, G983-G991.	3.4	17
22	Smooth Muscle-Specific Myosin Phosphatase Target Subunit 1 (MYPT1): An Important Piece of the Puzzle. <i>Gastroenterology</i> , 2013, 145, 1494-1495.	1.3	2
23	Role of PKC and RhoA/ROCK pathways in the spontaneous phasic activity in the rectal smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, G723-G731.	3.4	15
24	Intestinal GUCY2C Prevents TGF- $\beta$ 2 Secretion Coordinating Desmoplasia and Hyperproliferation in Colorectal Cancer. <i>Cancer Research</i> , 2013, 73, 6654-6666.	0.9	21
25	Smooth muscle fascicular reorientation is required for esophageal morphogenesis and dependent on Cdo. <i>Journal of Cell Biology</i> , 2013, 201, 309-323.	5.2	20
26	Bioengineered human IAS reconstructs with functional and molecular properties similar to intact IAS. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G713-G722.	3.4	16
27	Biosynthetic Pathways and the Role of the Mas Receptor in the Effects of Angiotensin-(1-7) in Smooth Muscles. <i>International Journal of Hypertension</i> , 2012, 2012, 1-6.	1.3	8
28	Effects of Scleroderma Antibodies and Pooled Human Immunoglobulin on Anal Sphincter and Colonic Smooth Muscle Function. <i>Gastroenterology</i> , 2012, 143, 1308-1318.	1.3	38
29	RhoA/ROCK pathway is the major molecular determinant of basal tone in intact human internal anal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G664-G675.	3.4	27
30	Role of rho kinase in the functional and dysfunctional tonic smooth muscles. <i>Trends in Pharmacological Sciences</i> , 2011, 32, 384-393.	8.7	59
31	Basal internal anal sphincter tone, inhibitory neurotransmission, and other factors contributing to the maintenance of high pressures in the anal canal. <i>Neurogastroenterology and Motility</i> , 2011, 23, 3-7.	3.0	21
32	Immunocytochemical evidence for PDBu-induced activation of RhoA/ROCK in human internal anal sphincter smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 301, G317-G325.	3.4	13
33	3-Hydroxymethyl coenzyme A reductase inhibition attenuates spontaneous smooth muscle tone via RhoA/ROCK pathway regulated by RhoA prenylation. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, G962-G969.	3.4	20
34	RhoA/Rho-Kinase: Pathophysiologic and Therapeutic Implications in Gastrointestinal Smooth Muscle Tone and Relaxation. <i>Gastroenterology</i> , 2010, 138, 13-18.e3.	1.3	54
35	COX-1 vs. COX-2 as a determinant of basal tone in the internal anal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G219-G225.	3.4	13
36	Immunoglobulins from scleroderma patients inhibit the muscarinic receptor activation in internal anal sphincter smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, G1206-G1213.	3.4	63

#	ARTICLE	IF	CITATIONS
37	Arachidonic acid metabolites follow the preferential course of cyclooxygenase pathway for the basal tone in the internal anal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G727-G734.	3.4	14
38	Role of RHO Kinase in Gastrointestinal Motility. <i>Gastroenterology</i> , 2009, 136, 1109-1112.	1.3	2
39	Sympathetic (Adrenergic) Innervation Modulates But Does Not Generate Basal Tone in the Internal Anal Sphincter Smooth Muscle. <i>Gastroenterology</i> , 2008, 134, 2179-2181.	1.3	3
40	Selectivity of ROCK inhibitors in the spontaneously tonic smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G687-G693.	3.4	24
41	PET Imaging of VPAC1 Expression in Experimental and Spontaneous Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2008, 49, 112-121.	5.0	46
42	Role of phospholipase A2 (group I secreted) in the genesis of basal tone in the internal anal sphincter smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, G979-G986.	3.4	11
43	Cellular regulation of basal tone in internal anal sphincter smooth muscle by RhoA/ROCK. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, G1747-G1756.	3.4	44
44	RhoA Prenylation Inhibitor Produces Relaxation of Tonic Smooth Muscle of Internal Anal Sphincter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 501-508.	2.5	9
45	Vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase activating peptide (PACAP) receptor specific peptide analogues for PET imaging of breast cancer: In vitro/in vivo evaluation. <i>Regulatory Peptides</i> , 2007, 144, 91-100.	1.9	37
46	H-ras Inhibits RhoA/ROCK Leading to a Decrease in the Basal Tone in the Internal Anal Sphincter. <i>Gastroenterology</i> , 2007, 132, 1401-1409.	1.3	8
47	Rho Kinase as a Novel Molecular Therapeutic Target for Hypertensive Internal Anal Sphincter. <i>Gastroenterology</i> , 2006, 131, 108-116.	1.3	42
48	Spontaneously tonic smooth muscle has characteristically higher levels of RhoA/ROK compared with the phasic smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, G830-G837.	3.4	57
49	Translocation of AT1- and AT2-Receptors by Higher Concentrations of Angiotensin II in the Smooth Muscle Cells of Rat Internal Anal Sphincter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 1088-1095.	2.5	29
50	Angiotensin-Converting Enzyme and Angiotensin II Receptor Subtype 1 Inhibitors Reconstitute Hypertensive Internal Anal Sphincter in the Spontaneously Hypertensive Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 725-734.	2.5	25
51	The internal anal sphincter: regulation of smooth muscle tone and relaxation. <i>Neurogastroenterology and Motility</i> , 2005, 17, 50-59.	3.0	109
52	Autocrine regulation of internal anal sphincter tone by renin-angiotensin system: comparison with phasic smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G1164-G1175.	3.4	30
53	Nitric Oxide Not Carbon Monoxide Mediates Nonadrenergic Noncholinergic Relaxation in the Murine Internal Anal Sphincter. <i>Gastroenterology</i> , 2005, 129, 1954-1966.	1.3	41
54	Mechanism of internal anal sphincter relaxation by CORM-1, authentic CO, and NANC nerve stimulation. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, G605-G611.	3.4	23

#	ARTICLE	IF	CITATIONS
55	Esophageal muscle physiology and morphogenesis require assembly of a collagen XIX-rich basement membrane zone. <i>Journal of Cell Biology</i> , 2004, 166, 591-600.	5.2	52
56	Role of Adenylate and Guanylate Cyclases in $\hat{1}^2$ -, $\hat{1}^2$ -, and $\hat{1}^3$ -Adrenoceptor-Mediated Relaxation of Internal Anal Sphincter Smooth Muscle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 1111-1120.	2.5	28
57	Angiotensin II-Induced Relaxation of Anococcygeus Smooth Muscle via Desensitization of AT1 Receptor, and Activation of AT2 Receptor Associated with Nitric-Oxide Synthase Pathway. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 394-401.	2.5	17
58	Impaired Rectoanal Inhibitory Response in Scleroderma (Systemic Sclerosis): An Association with Fecal Incontinence. <i>Digestive Diseases and Sciences</i> , 2004, 49, 1040-1045.	2.3	55
59	Evidence for the role of angiotensin II biosynthesis in the rat internal anal sphincter tone. <i>Gastroenterology</i> , 2004, 127, 127-138.	1.3	35
60	The multiple mediators of neurogenic smooth muscle relaxation. <i>Trends in Endocrinology and Metabolism</i> , 2004, 15, 189-191.	7.1	39
61	PET imaging of oncogene overexpression using $^{64}\text{Cu}$ -vasoactive intestinal peptide (VIP) analog: comparison with $^{99\text{m}}\text{Tc}$ -VIP analog. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1381-9.	5.0	49
62	Functional and Molecular Characterization of $\hat{1}^2$ -Adrenoceptors in the Internal Anal Sphincter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 615-624.	2.5	20
63	Inhibitory Effect of $\hat{1}^3$ -Adrenoceptor Agonist in Lower Esophageal Sphincter Smooth Muscle: In Vitro Studies. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 304, 48-55.	2.5	19
64	Role of nitric oxide in $\hat{1}^3$ -adrenoceptor activation on basal tone of internal anal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, G547-G555.	3.4	15
65	Involvement of Rho and Rho-Associated Kinase in Sphincteric Smooth Muscle Contraction by Angiotensin II. <i>Experimental Biology and Medicine</i> , 2003, 228, 972-981.	2.4	35
66	Animal model for angiotensin II effects in the internal anal sphincter smooth muscle: mechanism of action. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 282, G461-G469.	3.4	15
67	$\hat{1}^3$ adrenergic stimulation inhibits the opossum lower esophageal sphincter. <i>Gastroenterology</i> , 2002, 123, 1508-1515.	1.3	9
68	Comparison of angiotensin II (Ang II) effects in the internal anal sphincter (IAS) and lower esophageal sphincter smooth muscles. <i>Life Sciences</i> , 2002, 70, 2147-2164.	4.3	20
69	Role of $\text{pp60}^{\text{c-src}}$ and $\text{p}^{44/42}$ MAPK in ANG II-induced contraction of rat tonic gastrointestinal smooth muscles. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G390-G399.	3.4	12
70	Inducible and neuronal nitric oxide synthase involvement in lipopolysaccharide-induced sphincteric dysfunction. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, G32-G42.	3.4	61
71	Mechanism of internal anal sphincter smooth muscle relaxation by phorbol 12,13-dibutyrate. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, G1341-G1350.	3.4	11
72	Heme oxygenase-2 distribution in anorectum: colocalization with neuronal nitric oxide synthase. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 278, G148-G155.	3.4	48

#	ARTICLE	IF	CITATIONS
73	Heme oxygenase activity in the internal anal sphincter: Effects of nonadrenergic, noncholinergic nerve stimulation. <i>Gastroenterology</i> , 2000, 118, 477-486.	1.3	24
74	Mechanism of inhibition of VIP-induced LES relaxation by heme oxygenase inhibitor zinc protoporphyrin IX. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, G138-G145.	3.4	4
75	Mechanism of action of cholera toxin on the opossum internal anal sphincter smooth muscle. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, G152-G160.	3.4	6
76	Role of Galanin in the Gastrointestinal Sphincters a. <i>Annals of the New York Academy of Sciences</i> , 1998, 863, 143-155.	3.8	11
77	Sites of Actions of Contractile and Relaxant Effects of Pituitary Adenylate Cyclase Activating Peptide (PACAP) in the Internal Anal Sphincter Smooth Muscles. <i>Annals of the New York Academy of Sciences</i> , 1998, 865, 503-511.	3.8	4
78	Neuronal NOS gene expression in gastrointestinal myenteric neurons and smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 1997, 273, C1868-C1875.	4.6	34
79	Colocalization of NADPH-diaphorase staining and VIP immunoreactivity in neurons in opossum internal anal sphincter. <i>Digestive Diseases and Sciences</i> , 1995, 40, 781-791.	2.3	25
80	Differential Isoactin Gene Expression in the Sphincteric and Nonsphincteric Gastrointestinal Smooth Muscles of the Opossum. <i>Experimental Biology and Medicine</i> , 1994, 205, 321-326.	2.4	6
81	Vasoactive intestinal polypeptide gene expression is characteristically higher in opossum gastrointestinal sphincters. <i>Gastroenterology</i> , 1994, 106, 1467-1476.	1.3	6
82	Role of nitric oxide in sympathetic neurotransmission in opossum internal anal sphincter. <i>Gastroenterology</i> , 1993, 105, 827-836.	1.3	21
83	Nitric oxide pathway in rectoanal inhibitory reflex of opossum internal anal sphincter. <i>Gastroenterology</i> , 1992, 103, 43-50.	1.3	101
84	Effects of galanin on the opossum internal anal sphincter: Structure-activity relationship. <i>Gastroenterology</i> , 1991, 100, 711-718.	1.3	21
85	Role of galanin in the gut. <i>Gastroenterology</i> , 1991, 100, 1762-1768.	1.3	66
86	Peptide Histidine Isoleucine and Vasoactive Intestinal Polypeptide Cause Relaxation of Opossum Internal Anal Sphincter via Two Distinct Receptors. <i>Gastroenterology</i> , 1989, 96, 403-413.	1.3	27
87	Inhibitory effect of calcitonin gene-related peptide and calcitonin on opossum esophageal smooth muscle. <i>Gastroenterology</i> , 1988, 94, 284-293.	1.3	50
88	Effect of galanin on the opossum lower esophageal sphincter. <i>Life Sciences</i> , 1987, 41, 2783-2790.	4.3	31
89	Structure-activity relationship of subtypes of cholecystokinin receptors in the cat lower esophageal sphincter. <i>Gastroenterology</i> , 1986, 90, 94-102.	1.3	40
90	Membrane potential and mechanical responses of the opossum esophagus to vagal stimulation and swallowing. <i>Gastroenterology</i> , 1983, 85, 922-928.	1.3	49

#	ARTICLE	IF	CITATIONS
91	Vasoactive intestinal peptide causes peristaltic contractions in the esophageal body. Life Sciences, 1982, 30, 1557-1563.	4.3	27
92	Neural Regulation of Gastrointestinal Motility: Nature of Neurotransmission. Medical Clinics of North America, 1981, 65, 1129-1147.	2.5	10
93	VIP as a possible neurotransmitter of non-cholinergic non-adrenergic inhibitory neurones. Nature, 1980, 288, 378-380.	27.8	338
94	Evidence against purinergic inhibitory nerves in the vagal pathway to the opossum lower esophageal sphincter. Gastroenterology, 1980, 78, 898-904.	1.3	27
95	Neurohumoral, hormonal, and drug receptors for the lower esophageal sphincter. Gastroenterology, 1978, 74, 598-619.	1.3	289
96	Effect of Vasoactive Intestinal Polypeptide (VIP) on the Lower Esophageal Sphincter Pressure (LESP). Experimental Biology and Medicine, 1977, 155, 40-43.	2.4	56
97	Genesis of Basal Sphincter Pressure: Effect of Tetrodotoxin on Lower Esophageal Sphincter Pressure in Opossum in Vivo. Gastroenterology, 1976, 71, 62-67.	1.3	184
98	Effect of Nicotine on the Lower Esophageal Sphincter. Gastroenterology, 1975, 69, 154-159.	1.3	43
99	Neural Control of the Lower Esophageal Sphincter INFLUENCE OF THE VAGUS NERVES. Journal of Clinical Investigation, 1974, 54, 899-906.	8.2	118
100	Comparison of the Effects of Prostaglandins E1, E2, and A2, and of Hypovolumic Hypotension on the Lower Esophageal Sphincter. Gastroenterology, 1973, 65, 608-612.	1.3	50
101	Mechanism of the Lower Esophageal Sphincter Relaxation ACTION OF PROSTAGLANDIN E1 AND THEOPHYLLINE. Journal of Clinical Investigation, 1973, 52, 337-341.	8.2	119
102	Effect of Prostaglandin F2 $\alpha$ and Gastrin Pentapeptide on the Lower Esophageal Sphincter. Experimental Biology and Medicine, 1972, 141, 573-575.	2.4	17