## Sandhya Srikant Visweswariah

List of Publications by Year in descending order

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126 3,538 papers citations

145106 33 h-index 50 g-index

134 all docs

134 docs citations

134 times ranked 3272 citing authors

#	Article	IF	CITATIONS
1	The metabolic impact of bacterial infection in the gut. FEBS Journal, 2023, 290, 3928-3945.	2.2	2
2	Particle uptake driven phagocytosis in macrophages and neutrophils enhances bacterial clearance. Journal of Controlled Release, 2022, 343, 131-141.	4.8	15
3	The pseudokinase domain in receptor guanylyl cyclases. Methods in Enzymology, 2022, 667, 535-574.	0.4	2
4	Impaired Intestinal Sodium Transport in Inflammatory Bowel Disease: From the Passenger to the Driver's Seat. Cellular and Molecular Gastroenterology and Hepatology, 2021, 12, 277-292.	2.3	12
5	Mycobacterial STAND adenylyl cyclases: The HTH domain binds DNA to form biocrystallized nucleoids. Biophysical Journal, 2021, 120, 1231-1246.	0.2	4
6	Identification of Potential Binders of Mtb Universal Stress Protein (Rv1636) Through an in silico Approach and Insights Into Compound Selection for Experimental Validation. Frontiers in Molecular Biosciences, 2021, 8, 599221.	1.6	10
7	Gut-associated cGMP mediates colitis and dysbiosis in a mouse model of an activating mutation in <i>GUCY2C</i> . Journal of Experimental Medicine, 2021, 218, .	4.2	14
8	Mechanistic Insights into Pore Formation by an $\hat{l}_{\pm}$ -Pore Forming Toxin: Protein and Lipid Bilayer Interactions of Cytolysin A. Accounts of Chemical Research, 2021, 54, 120-131.	7.6	14
9	A universal stress protein in Mycobacterium smegmatis sequesters the cAMP-regulated lysine acyltransferase and is essential for biofilm formation. Journal of Biological Chemistry, 2020, 295, 1500-1516.	1.6	10
10	Cyclic nucleotides, gut physiology and inflammation. FEBS Journal, 2020, 287, 1970-1981.	2.2	6
11	Intramacrophage ROS Primes the Innate Immune System via JAK/STAT and Toll Activation. Cell Reports, 2020, 33, 108368.	2.9	67
12	Mutational landscape of receptor guanylyl cyclase C: Functional analysis and diseaseâ€related mutations. IUBMB Life, 2020, 72, 1145-1159.	1.5	10
13	A giant leap for womankind. Nature Medicine, 2019, 25, 704-707.	15.2	2
14	Absence of Receptor Guanylyl Cyclase C Enhances Ileal Damage and Reduces Cytokine and Antimicrobial Peptide Production during Oral Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2018, 86, .	1.0	10
15	The regulatory role of the kinase-homology domain in receptor guanylyl cyclases: nothing †pseudo†about it!. Biochemical Society Transactions, 2018, 46, 1729-1742.	1.6	8
16	Cholesterol promotes Cytolysin A activity by stabilizing the intermediates during pore formation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7323-E7330.	3.3	48
17	Guanylyl Cyclase C. , 2018, , 2301-2308.		0
18	Guanylyl Cyclase Receptors. , 2018, , 2308-2315.		0

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19	Studying Binding, Conformational Transition and Assembly of E. Coli Cytolysin a Pore Forming Toxin by Single Molecule Fluorescence. Biophysical Journal, 2017, 112, 524a.	0.2	1
20	Illuminating Cyclic Nucleotides: Sensors for cAMP and cGMP and Their Application in Live Cell Imaging. Journal of the Indian Institute of Science, 2017, 97, 109-128.	0.9	3
21	Guest Editor's Desk. Journal of the Indian Institute of Science, 2017, 97, 3-4.	0.9	О
22	Mycobacterial phenolic glycolipid synthesis is regulated by cAMP-dependent lysine acylation of FadD22. Microbiology (United Kingdom), 2017, 163, 373-382.	0.7	8
23	The Solvent-Exposed C-Terminus of the Cytolysin A Pore-Forming Toxin Directs Pore Formation and Channel Function in Membranes. Biochemistry, 2016, 55, 5952-5961.	1.2	17
24	Super-resolution Stimulated Emission Depletion-Fluorescence Correlation Spectroscopy Reveals Nanoscale Membrane Reorganization Induced by Pore-Forming Proteins. Langmuir, 2016, 32, 9649-9657.	1.6	43
25	Substrate specificity determinants of class <scp>III</scp> nucleotidyl cyclases. FEBS Journal, 2016, 283, 3723-3738.	2.2	5
26	Nanoscale dynamics of phospholipids reveals an optimal assembly mechanism of pore-forming proteins in bilayer membranes. Physical Chemistry Chemical Physics, 2016, 18, 29935-29945.	1.3	20
27	Congenital secretory diarrhoea caused by activating germline mutations in <i>GUCY2C </i> . Gut, 2016, 65, 1306-1313.	6.1	74
28	Guanylyl Cyclase C., 2016,, 1-8.		0
28	Guanylyl Cyclase C., 2016, , 1-8.  Guanylyl Cyclase Receptors., 2016, , 1-8.		0
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29	Guanylyl Cyclase Receptors. , 2016, , 1-8.  The adenylyl cyclase Rv2212 modifies the proteome and infectivity of Mycobacterium bovis BCG. Folia	1.1	0
30	Guanylyl Cyclase Receptors., 2016, , 1-8.  The adenylyl cyclase Rv2212 modifies the proteome and infectivity of Mycobacterium bovis BCG. Folia Microbiologica, 2015, 60, 21-31.  Evolution of bacterial transcription factors: how proteins take on new tasks, but do not always stop		6
29 30 31	Guanylyl Cyclase Receptors., 2016, , 1-8.  The adenylyl cyclase Rv2212 modifies the proteome and infectivity of Mycobacterium bovis BCG. Folia Microbiologica, 2015, 60, 21-31.  Evolution of bacterial transcription factors: how proteins take on new tasks, but do not always stop doing the old ones. Trends in Microbiology, 2015, 23, 463-467.  Linking carbon metabolism to carotenoid production in mycobacteria using Raman spectroscopy. FEMS	3.5	0 6 28
29 30 31 32	Guanylyl Cyclase Receptors., 2016, , 1-8.  The adenylyl cyclase Rv2212 modifies the proteome and infectivity of Mycobacterium bovis BCG. Folia Microbiologica, 2015, 60, 21-31.  Evolution of bacterial transcription factors: how proteins take on new tasks, but do not always stop doing the old ones. Trends in Microbiology, 2015, 23, 463-467.  Linking carbon metabolism to carotenoid production in mycobacteria using Raman spectroscopy. FEMS Microbiology Letters, 2015, 362, 1-6.  Metallophosphoesterases: structural fidelity with functional promiscuity. Biochemical Journal, 2015,	0.7	0 6 28 24
29 30 31 32 33	Guanylyl Cyclase Receptors., 2016, , 1-8.  The adenylyl cyclase Rv2212 modifies the proteome and infectivity of Mycobacterium bovis BCG. Folia Microbiologica, 2015, 60, 21-31.  Evolution of bacterial transcription factors: how proteins take on new tasks, but do not always stop doing the old ones. Trends in Microbiology, 2015, 23, 463-467.  Linking carbon metabolism to carotenoid production in mycobacteria using Raman spectroscopy. FEMS Microbiology Letters, 2015, 362, 1-6.  Metallophosphoesterases: structural fidelity with functional promiscuity. Biochemical Journal, 2015, 467, 201-216.  Autoinhibitory mechanism and activity-related structural changes in a mycobacterial adenylyl cyclase.	3.5 0.7 1.7	0 6 28 24 48

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37	Systematic Analysis of Mycobacterial Acylation Reveals First Example of Acylation-mediated Regulation of Enzyme Activity of a Bacterial Phosphatase. Journal of Biological Chemistry, 2015, 290, 26218-26234.	1.6	53
38	Cyclic nucleotide binding and structural changes in the isolated GAF domain of <i>Anabaena </i> adenylyl cyclase, CyaB2. PeerJ, 2015, 3, e882.	0.9	26
39	Genomic mapping of cAMP receptor protein (CRP <sup>Mt</sup> ) in <i>Mycobacterium tuberculosis</i> relation to transcriptional start sites and the role of CRP <sup>Mt</sup> as a transcription factor. Nucleic Acids Research, 2014, 42, 8320-8329.	6.5	54
40	Intestinal Cell Proliferation and Senescence Are Regulated by Receptor Guanylyl Cyclase C and p21. Journal of Biological Chemistry, 2014, 289, 581-593.	1.6	51
41	Paralogous cAMP Receptor Proteins in <i>Mycobacterium smegmatis</i> Show Biochemical and Functional Divergence. Biochemistry, 2014, 53, 7765-7776.	1.2	12
42	A Fluorescent Nucleic Acid Nanodevice Quantitatively Images Elevated Cyclic Adenosine Monophosphate in Membraneâ€Bound Compartments. Small, 2014, 10, 4276-4280.	5.2	15
43	Lysis dynamics and membrane oligomerization pathways for Cytolysin A (ClyA) pore-forming toxin. RSC Advances, 2014, 4, 4930.	1.7	27
44	Allostery and Conformational Dynamics in cAMP-binding Acyltransferases. Journal of Biological Chemistry, 2014, 289, 16588-16600.	1.6	15
45	The Non-catalytic "Cap Domain―of a Mycobacterial Metallophosphoesterase Regulates Its Expression and Localization in the Cell. Journal of Biological Chemistry, 2014, 289, 22470-22481.	1.6	11
46	New structural forms of a mycobacterial adenylyl cyclase Rv1625c. IUCrJ, 2014, 1, 338-348.	1.0	6
47	Overexpression of the Rv0805 phosphodiesterase elicits a cAMP-independent transcriptional response. Tuberculosis, 2013, 93, 492-500.	0.8	13
48	Cyclic AMP-dependent Protein Lysine Acylation in Mycobacteria Regulates Fatty Acid and Propionate Metabolism. Journal of Biological Chemistry, 2013, 288, 14114-14124.	1.6	96
49	Cyclic nucleotide signaling in intestinal epithelia: getting to the gut of the matter. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 409-424.	6.6	13
50	Site-specific N-Linked Glycosylation of Receptor Guanylyl Cyclase C Regulates Ligand Binding, Ligand-mediated Activation and Interaction with Vesicular Integral Membrane Protein 36, VIP36. Journal of Biological Chemistry, 2013, 288, 3907-3917.	1.6	17
51	Physical understanding of pore formation on supported lipid bilayer by bacterial toxins. , 2013, , .		0
52	Cyclic AMP-induced Conformational Changes in Mycobacterial Protein Acetyltransferases. Journal of Biological Chemistry, 2012, 287, 18115-18129.	1.6	24
53	The multiple and enigmatic roles of guanylyl cyclase C in intestinal homeostasis. FEBS Letters, 2012, 586, 2835-2840.	1.3	62
54	Familial Diarrhea Syndrome Caused by an Activating <i>GUCY2C </i> Mutation. New England Journal of Medicine, 2012, 366, 1586-1595.	13.9	175

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55	Unique Utilization of a Phosphoprotein Phosphatase Fold by a Mammalian Phosphodiesterase Associated with WAGR Syndrome. Journal of Molecular Biology, 2011, 412, 481-494.	2.0	14
56	Defying the Stereotype: Non-Canonical Roles of the Peptide Hormones Guanylin and Uroguanylin. Frontiers in Endocrinology, 2011, 2, 14.	1.5	10
57	Signalling mechanisms in Mycobacteria. Tuberculosis, 2011, 91, 432-440.	0.8	34
58	Signaling via guanylyl cyclase C: cGMP, Src and p21. BMC Pharmacology, 2011, 11, .	0.4	0
59	Distinct Allostery Induced in the Cyclic GMP-binding, Cyclic GMP-specific Phosphodiesterase (PDE5) by Cyclic GMP, Sildenafil, and Metal Ions. Journal of Biological Chemistry, 2011, 286, 8545-8554.	1.6	30
60	Receptor guanylyl cyclase C (GC-C): regulation and signal transduction. Molecular and Cellular Biochemistry, 2010, 334, 67-80.	1.4	73
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62	Characterization of an Evolutionarily Conserved Metallophosphoesterase That Is Expressed in the Fetal Brain and Associated with the WAGR Syndrome. Journal of Biological Chemistry, 2009, 284, 5217-5228.	1.6	27
63	A Mycobacterial Cyclic AMP Phosphodiesterase That Moonlights as a Modifier of Cell Wall Permeability. Journal of Biological Chemistry, 2009, 284, 32846-32857.	1.6	62
64	The Linker Region in Receptor Guanylyl Cyclases Is a Key Regulatory Module. Journal of Biological Chemistry, 2009, 284, 27135-27145.	1.6	46
65	Cross Talk between Receptor Guanylyl Cyclase C and c-src Tyrosine Kinase Regulates Colon Cancer Cell Cytostasis. Molecular and Cellular Biology, 2009, 29, 5277-5289.	1.1	39
66	The Evolution of Guanylyl Cyclases as Multidomain Proteins: Conserved Features of Kinase-Cyclase Domain Fusions. Journal of Molecular Evolution, 2009, 68, 587-602.	0.8	37
67	Histone Deacetylases Regulate Multicellular Development in the Social Amoeba Dictyostelium discoideum. Journal of Molecular Biology, 2009, 391, 833-848.	2.0	14
68	The GAF Domain of the cGMP-Binding, cGMP-Specific Phosphodiesterase (PDE5) Is a Sensor and a Sink for cGMP. Biochemistry, 2008, 47, 3534-3543.	1.2	49
69	Cyclic AMP in Mycobacteria: Characterization and Functional Role of the Rv1647 Ortholog in <i>Mycobacterium smegmatis</i> ). Journal of Bacteriology, 2008, 190, 3824-3834.	1.0	42
70	Structural and Biochemical Analysis of the Rv0805 Cyclic Nucleotide Phosphodiesterase from Mycobacterium tuberculosis. Journal of Molecular Biology, 2007, 365, 211-225.	2.0	74
71	The Kinase Homology Domain of Receptor Guanylyl Cyclase C: ATP Binding and Identification of an Adenine Nucleotide Sensitive Siteâ€. Biochemistry, 2006, 45, 1888-1898.	1.2	36
72	Mycobacterial adenylyl cyclases: Biochemical diversity and structural plasticity. FEBS Letters, 2006, 580, 3344-3352.	1.3	53

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73	A Structural Basis for the Role of Nucleotide Specifying Residues in Regulating the Oligomerization of the Rv1625c Adenylyl Cyclase from M.tuberculosis. Journal of Molecular Biology, 2006, 356, 904-916.	2.0	19
74	New messages from old messengers: cAMP and mycobacteria. Trends in Microbiology, 2006, 14, 543-550.	3.5	69
75	Characterization of phylogenetically distant members of the adenylate cyclase family from mycobacteria: Rv1647 from Mycobacterium tuberculosis and its orthologue ML1399 from M. leprae. Biochemical Journal, 2005, 387, 541-551.	1.7	31
76	"That which we call a rose by any other name would smell as sweet†How the nose knows!. Resonance, 2005, 10, 28-34.	0.2	0
77	The Rv0805 Gene fromMycobacterium tuberculosisEncodes a 3â€~,5â€~-Cyclic Nucleotide Phosphodiesterase:Â Biochemical and Mutational Analysisâ€. Biochemistry, 2005, 44, 15695-15704.	1.2	80
78	An adenylyl cyclase pseudogene in Mycobacterium tuberculosis has a functional ortholog in Mycobacterium avium. Biochimie, 2005, 87, 557-563.	1.3	13
79	The cGMP-binding, cGMP-specific phosphodiesterase (PDE5): intestinal cell expression, regulation and role in fluid secretion. Cellular Signalling, 2004, 16, 681-692.	1.7	25
80	Purification, crystallization and preliminary X-ray diffraction analysis of the catalytic domain of adenylyl cyclase Rv1625c fromMycobacterium tuberculosis. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 371-373.	2.5	9
81	A Survey of Nucleotide Cyclases in Actinobacteria: Unique Domain Organization and Expansion of the Class III Cyclase Family inMycobacterium tuberculosis. Comparative and Functional Genomics, 2004, 5, 17-38.	2.0	48
82	Tyrphostins Are Inhibitors of Guanylyl and Adenylyl Cyclases. Biochemistry, 2004, 43, 8247-8255.	1.2	44
83	Class III nucleotide cyclases in bacteria and archaebacteria: lineage-specific expansion of adenylyl cyclases. FEBS Letters, 2004, 561, 11-21.	1.3	47
84	Glycosylation of the receptor guanylate cyclase C: role in ligand binding and catalytic activity. Biochemical Journal, 2004, 379, 653-663.	1.7	33
85	Site-directed mutagenesis using a single mutagenic oligonucleotide and DpnI digestion of template DNA. Analytical Biochemistry, 2003, 319, 335-336.	1.1	109
86	Cellular refractoriness to the heat-stable enterotoxin peptide is associated with alterations in levels of the differentially glycosylated forms of guanylyl cyclase C. FEBS Journal, 2003, 270, 3848-3857.	0.2	21
87	Modeling and mutational analysis of the GAF domain of the cGMP-binding, cGMP-specific phosphodiesterase, PDE5. FEBS Letters, 2003, 539, 161-166.	1.3	26
88	Mutational analysis of the Mycobacterium tuberculosis Rv1625c adenylyl cyclase: residues that confer nucleotide specificity contribute to dimerization. FEBS Letters, 2003, 545, 253-259.	1.3	32
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92	Advantage of the Ether Linkage between the Positive Charge and the Cholesteryl Skeleton in Cholesterol-Based Amphiphiles as Vectors for Gene Delivery. Bioconjugate Chemistry, 2002, 13, 378-384.	1.8	73
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95	Monoclonal antibodies to mycobacterial DNA gyrase A inhibit DNA supercoiling activity. FEBS Journal, 2001, 268, 2038-2046.	0.2	14
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97	AMycobacterium smegmatisgyrase B specific monoclonal antibody reveals association of gyrase A and B subunits in the cell. FEMS Microbiology Letters, 2001, 194, 87-92.	0.7	7
98	Expression and regulation of the cGMP-binding, cGMP-specific phosphodiesterase (PDE5) in human colonic epithelial cells: Role in the induction of cellular refractoriness to the heat-stable enterotoxin peptide. Journal of Cellular Biochemistry, 2000, 77, 159-167.	1.2	31
99	Homologous desensitization of the human guanylate cyclase C receptor. FEBS Journal, 2000, 267, 179-187.	0.2	30
100	Tyrosine phosphorylation of the human guanylyl cyclase C receptor. Journal of Biosciences, 2000, 25, 339-346.	0.5	11
101	Expression of GC-C, a Receptor-Guanylate Cyclase, and Its Endogenous Ligands Uroguanylin and Guanylin along the Rostrocaudal Axis of the Intestine*. Endocrinology, 2000, 141, 3210-3224.	1.4	51
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103	Biochemical Characterization of the Intracellular Domain of the Human Guanylyl Cyclase C Receptor Provides Evidence for a Catalytically Active Homotrimerâ€. Biochemistry, 2000, 39, 16075-16083.	1.2	31
104	Structure and activity of OK-GC: a kidney receptor guanylate cyclase activated by guanylin peptides. American Journal of Physiology - Renal Physiology, 1999, 276, F882-F891.	1.3	25
105	Thermodynamic Analyses Reveal Role of Water Release in Epitope Recognition by a Monoclonal Antibody against the Human Guanylyl Cyclase C Receptor. Journal of Biological Chemistry, 1999, 274, 31272-31278.	1.6	44
106	Guanylyl Cyclase C Receptor: Regulation of Catalytic Activity by ATP. Bioscience Reports, 1999, 19, 179-188.	1.1	11
107	Identification and characterization of receptors for riboflavin carrier protein in the chicken oocyte. BBA - Proteins and Proteomics, 1998, 1382, 230-242.	2.1	10
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109	Topological mimicry and epitope duplication in the guanylyl cyclase C receptor. Protein Science, 1998, 7, 2175-2183.	3.1	4
110	Dual regulation of heat-stable enterotoxin-mediated cGMP accumulation in T84 cells by receptor desensitization and increased phosphodiesterase activity. FEBS Letters, 1997, 408, 345-349.	1.3	28
111	Epitope conservation and immunohistochemical localization of the guanylin/stable toxin peptide receptor, guanylyl cyclase C. Journal of Cellular Biochemistry, 1997, 66, 500-511.	1.2	31
112	Hyperexpression of Chicken Riboflavin Carrier Protein: Antibodies to the Recombinant Protein Curtail Pregnancy in Rodents. Protein Expression and Purification, 1996, 7, 147-154.	0.6	10
113	Expression of the Extracellular Domain of the Human Heat-Stable Enterotoxin Receptor inEscherichia coliand Generation of Neutralizing Antibodies. Protein Expression and Purification, 1996, 8, 151-159.	0.6	23
114	A conformational epitope in the N-terminus of the Escherichia coli heat-stable enterotoxins is involved in receptor-ligand interactions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1996, 1317, 149-154.	1.8	5
115	Characterization and partial purification of the human receptor for the heat-stable enterotoxin. FEBS Journal, 1994, 219, 727-736.	0.2	39
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118	Biochemical and immunological aspects of riboflavin carrier protein. Journal of Biosciences, 1988, 13, 87-104.	0.5	17
119	Estrogen modulation of riboflavin carrier protein in the bonnet monkey (Macaca radiata). The Journal of Steroid Biochemistry, 1988, 31, 91-96.	1.3	6
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122	Isolation of riboflavin carrier proteins from pregnant human and umbilical cord serum: Similarities with chicken egg riboflavin carrier protein. Bioscience Reports, 1987, 7, 563-571.	1.1	19
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125	Guanylyl cyclase receptor C. The AFCS-nature Molecule Pages, 0, , .	0.2	1
126	Receptor Guanylyl Cyclase C and Cyclic GMP in Health and Disease: Perspectives and Therapeutic Opportunities. Frontiers in Endocrinology, 0, 13, .	1.5	10