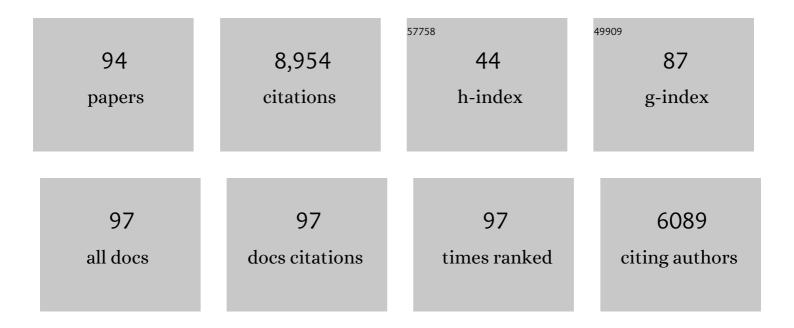
## Lonny R Levin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bicarbonate, carbon dioxide and pH sensing via mammalian bicarbonate-regulated soluble adenylyl cyclase. Interface Focus, 2021, 11, 20200034.	3.0	19
2	Soluble adenylyl cyclase regulates the cytosolic NADH/NAD+ redox state and the bioenergetic switch between glycolysis and oxidative phosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148367.	1.0	12
3	Discovery of TDI-10229: A Potent and Orally Bioavailable Inhibitor of Soluble Adenylyl Cyclase (sAC,) Tj ETQq1	1 0.784314 2.8	rgBT /Overlo
4	Soluble adenylyl cyclase inhibition prevents human sperm functions essential for fertilization. Molecular Human Reproduction, 2021, 27, .	2.8	26
5	Capacitation increases glucose consumption in murine sperm. Molecular Reproduction and Development, 2020, 87, 1037-1047.	2.0	27
6	Using an Extracellular Flux Analyzer to Measure Changes in Glycolysis and Oxidative Phosphorylation during Mouse Sperm Capacitation. Journal of Visualized Experiments, 2020, , .	0.3	9
7	Metabolic changes in mouse sperm during capacitationâ€. Biology of Reproduction, 2020, 103, 791-801.	2.7	50
8	Cholesterol Stabilizes TAZ in Hepatocytes to Promote Experimental Non-alcoholic Steatohepatitis. Cell Metabolism, 2020, 31, 969-986.e7.	16.2	117
9	Optimization of lead compounds into on-demand, nonhormonal contraceptives: leveraging a public–private drug discovery institute collaborationâ€. Biology of Reproduction, 2020, 103, 176-182.	2.7	18
10	Transient Sperm Starvation Improves the Outcome of Assisted Reproductive Technologies. Frontiers in Cell and Developmental Biology, 2019, 7, 262.	3.7	32
11	Mammalian pigmentation is regulated by a distinct cAMP-dependent mechanism that controls melanosome pH. Science Signaling, 2018, 11, .	3.6	28
12	Pharmacological modulation of the CO2/HCO3â^'/pH-, calcium-, and ATP-sensing soluble adenylyl cyclase. , 2018, 190, 173-186.		46
13	Distinct intracellular sAC-cAMP domains regulate ER calcium signaling and OXPHOS function. Journal of Cell Science, 2017, 130, 3713-3727.	2.0	28
14	Differential Intraocular Pressure Measurements by Tonometry and Direct Cannulation After Treatment with Soluble Adenylyl Cyclase Inhibitors. Journal of Ocular Pharmacology and Therapeutics, 2017, 33, 574-581.	1.4	13
15	Soluble adenylyl cyclase is essential for proper lysosomal acidification. Journal of General Physiology, 2016, 148, 325-339.	1.9	32
16	Discovery of LRE1 as a specific and allosteric inhibitor of soluble adenylyl cyclase. Nature Chemical Biology, 2016, 12, 838-844.	8.0	74
17	Transient exposure to calcium ionophore enables in vitro fertilization in sterile mouse models. Scientific Reports, 2016, 6, 33589.	3.3	40
18	Bithionol Potently Inhibits Human Soluble Adenylyl Cyclase through Binding to the Allosteric Activator Site. Journal of Biological Chemistry, 2016, 291, 9776-9784.	3.4	25

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19	The metabolic/pH sensor soluble adenylyl cyclase is a tumor suppressor protein. Oncotarget, 2016, 7, 45597-45607.	1.8	19
20	Endothelial CD99 signals through soluble adenylyl cyclase and PKA to regulate leukocyte transendothelial migration. Journal of Experimental Medicine, 2015, 212, 1021-1041.	8.5	92
21	Physiological Roles of Acid-Base Sensors. Annual Review of Physiology, 2015, 77, 347-362.	13.1	75
22	Endothelial CD99 Signals Through Soluble Adenylyl Cyclase and PKA to Regulate Leukocyte Transendothelial Migration. FASEB Journal, 2015, 29, 285.1.	0.5	0
23	Nonpigmented Ciliary Epithelial Cells Respond to Acetazolamide by a Soluble Adenylyl Cyclase Mechanism. , 2014, 55, 187.		9
24	A Soluble Adenylyl Cyclase Form Targets to Axonemes and Rescues Beat Regulation in Soluble Adenylyl Cyclase Knockout Mice. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 750-760.	2.9	28
25	The role of soluble adenylyl cyclase in health and disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2533-2534.	3.8	5
26	CO2/HCO3â^'- and calcium-regulated soluble adenylyl cyclase as a physiological ATP sensor Journal of Biological Chemistry, 2014, 289, 12679.	3.4	0
27	Crystal structures of human soluble adenylyl cyclase reveal mechanisms of catalysis and of its activation through bicarbonate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3727-3732.	7.1	113
28	A mitochondrial CO <sub>2</sub> â€adenylyl cyclase AMP signalosome controls yeast normoxic cytochrome <i>c</i> oxidase activity. FASEB Journal, 2014, 28, 4369-4380.	0.5	35
29	Soluble Adenylyl Cyclase Is Necessary and Sufficient to Overcome the Block of Axonal Growth by Myelin-Associated Factors. Journal of Neuroscience, 2014, 34, 9281-9289.	3.6	22
30	CO2/HCO3â^'- and Calcium-regulated Soluble Adenylyl Cyclase as a Physiological ATP Sensor. Journal of Biological Chemistry, 2013, 288, 33283-33291.	3.4	108
31	Compartmentalization of Distinct cAMP Signaling Pathways in Mammalian Sperm. Journal of Biological Chemistry, 2013, 288, 35307-35320.	3.4	88
32	Neuronal expression of soluble adenylyl cyclase in the mammalian brain. Brain Research, 2013, 1518, 1-8.	2.2	46
33	Pharmacological Distinction between Soluble and Transmembrane Adenylyl Cyclases. Journal of Pharmacology and Experimental Therapeutics, 2013, 347, 589-598.	2.5	82
34	pH sensing via bicarbonate-regulated "soluble―adenylyl cyclase (sAC). Frontiers in Physiology, 2013, 4, 343.	2.8	38
35	cAMP and Mitochondria. Physiology, 2013, 28, 199-209.	3.1	129
36	Identification of a haem domain in human soluble adenylate cyclase. Bioscience Reports, 2012, 32, 491-499.	2.4	21

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37	Role of soluble adenylyl cyclase in the heart. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H538-H543.	3.2	26
38	Crystal Structure and Regulation Mechanisms of the CyaB Adenylyl Cyclase from the Human Pathogen Pseudomonas aeruginosa. Journal of Molecular Biology, 2012, 416, 271-286.	4.2	36
39	Metabolic Communication between Astrocytes and Neurons via Bicarbonate-Responsive Soluble Adenylyl Cyclase. Neuron, 2012, 75, 1094-1104.	8.1	225
40	Characterization of Plasmodium falciparum Adenylyl Cyclase-β and Its Role in Erythrocytic Stage Parasites. PLoS ONE, 2012, 7, e39769.	2.5	24
41	Activation of Soluble Adenylyl Cyclase Protects against Secretagogue Stimulated Zymogen Activation in Rat Pancreaic Acinar Cells. PLoS ONE, 2012, 7, e41320.	2.5	14
42	Intracellular cAMP signaling by soluble adenylyl cyclase. Kidney International, 2011, 79, 1277-1288.	5.2	176
43	The Quorum-Sensing Molecules Farnesol/Homoserine Lactone and Dodecanol Operate via Distinct Modes of Action in Candida albicans. Eukaryotic Cell, 2011, 10, 1034-1042.	3.4	115
44	The Soluble Guanylyl Cyclase Activator YC-1 Increases Intracellular cGMP and cAMP via Independent Mechanisms in INS-1E Cells. Journal of Pharmacology and Experimental Therapeutics, 2011, 338, 925-931.	2.5	6
45	A Phosphodiesterase 2A Isoform Localized to Mitochondria Regulates Respiration. Journal of Biological Chemistry, 2011, 286, 30423-30432.	3.4	115
46	Gastric Inhibitory Peptide Controls Adipose Insulin Sensitivity via Activation of cAMP-response Element-binding Protein and p110β Isoform of Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 2011, 286, 43062-43070.	3.4	44
47	Regulation of Anterior Chamber Drainage by Bicarbonate-sensitive Soluble Adenylyl Cyclase in the Ciliary Body. Journal of Biological Chemistry, 2011, 286, 41353-41358.	3.4	40
48	Physiological Sensing of Carbon Dioxide/Bicarbonate/pH via Cyclic Nucleotide Signaling. Sensors, 2011, 11, 2112-2128.	3.8	38
49	Physiological carbon dioxide, bicarbonate, and pH sensing. Pflugers Archiv European Journal of Physiology, 2010, 460, 953-964.	2.8	100
50	Bicarbonate-sensing soluble adenylyl cyclase is an essential sensor for acid/base homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 442-447.	7.1	85
51	CO2 Acts as a Signalling Molecule in Populations of the Fungal Pathogen Candida albicans. PLoS Pathogens, 2010, 6, e1001193.	4.7	104
52	Modulation of NaCl absorption by [HCO <sub>3</sub> <sup>â^'</sup> ] in the marine teleost intestine is mediated by soluble adenylyl cyclase. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R62-R71.	1.8	51
53	Soluble Adenylyl Cyclase Defines a Nuclear cAMP Microdomain in Keratinocyte Hyperproliferative Skin Diseases. Journal of Investigative Dermatology, 2010, 130, 1279-1287.	0.7	45
54	Regulation of Epithelial Na+ Transport by Soluble Adenylyl Cyclase in Kidney Collecting Duct Cells. Journal of Biological Chemistry, 2009, 284, 5774-5783.	3.4	47

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55	Cyclic AMP Produced inside Mitochondria Regulates Oxidative Phosphorylation. Cell Metabolism, 2009, 9, 265-276.	16.2	422
56	"Soluble―adenylyl cyclaseâ€generated cyclic adenosine monophosphate promotes fast migration in PC12 cells. Journal of Neuroscience Research, 2008, 86, 118-124.	2.9	12
57	Structure-Based Development of Novel Adenylyl Cyclase Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 4456-4464.	6.4	33
58	Glucose and GLP-1 Stimulate cAMP Production via Distinct Adenylyl Cyclases in INS-1E Insulinoma Cells. Journal of General Physiology, 2008, 132, 329-338.	1.9	104
59	Somatic â€~Soluble' Adenylyl Cyclase Isoforms Are Unaffected in Sacytm1Lex/Sacytm1Lex â€~Knockout' PLoS ONE, 2008, 3, e3251.	Mice. 2.5	67
60	Novel Regulation of the Epithelial Na + Channel by Soluble Adenylyl Cyclase in Kidney Collecting Duct Cells. FASEB Journal, 2008, 22, 934.3.	0.5	0
61	Glucose and GLP-1 Stimulate cAMP Production via Distinct Adenylyl Cyclases in INS-1E Insulinoma Cells. Journal of Cell Biology, 2008, 182, i10-i10.	5.2	0
62	Soluble Adenylyl Cyclase Is Localized to Cilia and Contributes to Ciliary Beat Frequency Regulation via Production of cAMP. Journal of General Physiology, 2007, 130, 99-109.	1.9	99
63	Particulate and soluble adenylyl cyclases participate in the sperm acrosome reaction. Biochemical and Biophysical Research Communications, 2007, 358, 1128-1135.	2.1	45
64	Molecular Details of cAMP Generation in Mammalian Cells: A Tale of Two Systems. Journal of Molecular Biology, 2006, 362, 623-639.	4.2	284
65	Soluble adenylyl cyclase is required for netrin-1 signaling in nerve growth cones. Nature Neuroscience, 2006, 9, 1257-1264.	14.8	89
66	Autoinhibitory regulation of soluble adenylyl cyclase. Molecular Reproduction and Development, 2006, 73, 361-368.	2.0	50
67	Cryptococcus neoformans Senses CO 2 through the Carbonic Anhydrase Can2 and the Adenylyl Cyclase Cac1. Eukaryotic Cell, 2006, 5, 103-111.	3.4	156
68	Soluble Adenylyl Cyclase Mediates Nerve Growth Factor-induced Activation of Rap1. Journal of Biological Chemistry, 2006, 281, 17253-17258.	3.4	64
69	Bicarbonate activation of adenylyl cyclase via promotion of catalytic active site closure and metal recruitment. Nature Structural and Molecular Biology, 2005, 12, 32-37.	8.2	149
70	Fungal Adenylyl Cyclase Integrates CO2 Sensing with cAMP Signaling and Virulence. Current Biology, 2005, 15, 2021-2026.	3.9	372
71	Fungal Adenylyl Cyclase Integrates CO2 Sensing with cAMP Signaling and Virulence. Current Biology, 2005, 15, 2177.	3.9	4
72	Calcium-sensing soluble adenylyl cyclase mediates TNF signal transduction in human neutrophils. Journal of Experimental Medicine, 2005, 202, 353-361.	8.5	62

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73	A Novel Mechanism for Adenylyl Cyclase Inhibition from the Crystal Structure of Its Complex with Catechol Estrogen. Journal of Biological Chemistry, 2005, 280, 31754-31759.	3.4	66
74	The "Soluble―Adenylyl Cyclase in Sperm Mediates Multiple Signaling Events Required for Fertilization. Developmental Cell, 2005, 9, 249-259.	7.0	353
75	Bicarbonate-responsive "soluble―adenylyl cyclase defines a nuclear cAMP microdomain. Journal of Cell Biology, 2004, 164, 527-534.	5.2	157
76	Conservation of functional domain structure in bicarbonate-regulated ?soluble? adenylyl cyclases in bacteria and eukaryotes. Development Genes and Evolution, 2004, 214, 503-9.	0.9	27
77	Compartmentalization of bicarbonateâ€sensitive adenylyl cyclase in distinct signaling microdomains. FASEB Journal, 2003, 17, 82-84.	0.5	259
78	Bicarbonate-regulated Adenylyl Cyclase (sAC) Is a Sensor That Regulates pH-dependent V-ATPase Recycling. Journal of Biological Chemistry, 2003, 278, 49523-49529.	3.4	202
79	Kinetic Properties of "Soluble―Adenylyl Cyclase. Journal of Biological Chemistry, 2003, 278, 15922-15926.	3.4	316
80	HCO 3 â^' -dependent soluble adenylyl cyclase activates cystic fibrosis transmembrane conductance regulator in corneal endothelium. American Journal of Physiology - Cell Physiology, 2003, 284, C1114-C1122.	4.6	39
81	Purification of Soluble Adenylyl Cyclase. Methods in Enzymology, 2002, 345, 95-105.	1.0	10
82	Identification of Transmembrane Adenylyl Cyclase Isoforms. Methods in Enzymology, 2002, 345, 150-159.	1.0	3
83	CO2/HCO3â^'-responsive soluble adenylyl cyclase as a putative metabolic sensor. Trends in Endocrinology and Metabolism, 2001, 12, 366-370.	7.1	105
84	Specific expression of soluble adenylyl cyclase in male germ cells. , 2000, 56, 6-11.		92
85	A calcium-inhibited Drosophila adenylyl cyclase. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1495, 125-139.	4.1	14
86	Soluble Adenylyl Cyclase as an Evolutionarily Conserved Bicarbonate Sensor. Science, 2000, 289, 625-628.	12.6	771
87	Cloning and characterization of aDrosophilaadenylyl cyclase homologous to mammalian type IX. FEBS Letters, 1997, 413, 104-108.	2.8	15
88	6 Genetic characterization of adenylyl cyclase function. Advances in Second Messenger and Phosphoprotein Research, 1997, 32, 121-135.	4.5	8
89	Identification of Functional Domains of Adenylyl Cyclase Using in Vivo Chimeras. Journal of Biological Chemistry, 1995, 270, 7573-7579.	3.4	71
90	Preferential expression of the drosophila rutabaga gene in mushroom bodies, neural centers for learning in insects. Neuron, 1992, 9, 619-627.	8.1	239

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91	The Drosophila learning and memory gene rutabaga encodes a - adenylyl cyclase. Cell, 1992, 68, 479-489.	28.9	561
92	[51] Functional expression of mammalian adenosine cyclic monophosphate-dependent protein kinase in saccharomyces cerevisiae. Methods in Enzymology, 1991, 200, 605-627.	1.0	3
93	cAMP-independent control of sporulation, glycogen metabolism, and heat shock resistance in S. cerevisiae. Cell, 1988, 53, 555-566.	28.9	291
94	The S. cerevisiae CDC25 gene product regulates the RAS/adenylate cyclase pathway. Cell, 1987, 48, 789-799.	28.9	523