

Manuela Zacco

List of Publications by Year in descending order

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124
papers

8,752
citations

38552

50
h-index

47439

89
g-index

134
all docs

134
docs citations

134
times ranked

8752
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete Microdomains with High Concentration of cAMP in Stimulated Rat Neonatal Cardiac Myocytes. <i>Science</i> , 2002, 295, 1711-1715.	20.9	790
2	A genetically encoded, fluorescent indicator for cyclic AMP in living cells. <i>Nature Cell Biology</i> , 2000, 2, 25-29.	10.0	481
3	Detecting cAMP-induced Epac activation by fluorescence resonance energy transfer: Epac as a novel cAMP indicator. <i>EMBO Reports</i> , 2004, 5, 1176-1180.	5.1	410
4	Fluorescence Resonance Energy Transfer-Based Analysis of cAMP Dynamics in Live Neonatal Rat Cardiac Myocytes Reveals Distinct Functions of Compartmentalized Phosphodiesterases. <i>Circulation Research</i> , 2004, 95, 67-75.	10.7	347
5	cAMP and cGMP Signaling Cross-Talk. <i>Circulation Research</i> , 2007, 100, 1569-1578.	10.7	319
6	Compartmentalized Phosphodiesterase-2 Activity Blunts β^2 -Adrenergic Cardiac Inotropy via an NO/cGMP-Dependent Pathway. <i>Circulation Research</i> , 2006, 98, 226-234.	10.7	254
7	Nitroxyl Improves Cellular Heart Function by Directly Enhancing Cardiac Sarcoplasmic Reticulum Ca ²⁺ Cycling. <i>Circulation Research</i> , 2007, 100, 96-104.	10.7	212
8	cGMP Catabolism by Phosphodiesterase 5A Regulates Cardiac Adrenergic Stimulation by NOS3-Dependent Mechanism. <i>Circulation Research</i> , 2005, 96, 100-109.	10.7	194
9	Spatiotemporal Coupling of cAMP Transporter to CFTR Chloride Channel Function in the Gut Epithelia. <i>Cell</i> , 2007, 131, 940-951.	27.8	191
10	Protein Kinase A Type I and Type II Define Distinct Intracellular Signaling Compartments. <i>Circulation Research</i> , 2008, 103, 836-844.	10.7	188
11	FRET biosensor uncovers cAMP nano-domains at β^2 -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031.	13.2	175
12	PGE1 stimulation of HEK293 cells generates multiple contiguous domains with different [cAMP]: role of compartmentalized phosphodiesterases. <i>Journal of Cell Biology</i> , 2006, 175, 441-451.	5.2	172
13	AKAP complex regulates Ca ²⁺ re-uptake into heart sarcoplasmic reticulum. <i>EMBO Reports</i> , 2007, 8, 1061-1067.	5.1	169
14	cAMP signaling in subcellular compartments. , 2014, 143, 295-304.		163
15	Alcohol Disrupts Levels and Function of the Cystic Fibrosis Transmembrane Conductance Regulator to Promote Development of Pancreatitis. <i>Gastroenterology</i> , 2015, 148, 427-439.e16.	1.4	163
16	Subcellular Organization of the cAMP Signaling Pathway. <i>Pharmacological Reviews</i> , 2021, 73, 278-309.	16.1	162
17	GLP-1 stimulates insulin secretion by PKC-dependent TRPM4 and TRPM5 activation. <i>Journal of Clinical Investigation</i> , 2015, 125, 4714-4728.	8.2	156
18	cGMP Signals Modulate cAMP Levels in a Compartment-Specific Manner to Regulate Catecholamine-Dependent Signaling in Cardiac Myocytes. <i>Circulation Research</i> , 2011, 108, 929-939.	10.7	147

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19	Mutations in the Insulin-Like Factor 3 Receptor Are Associated With Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 683-693.	3.0	134
20	TCR- and CD28-Mediated Recruitment of Phosphodiesterase 4 to Lipid Rafts Potentiates TCR Signaling. <i>Journal of Immunology</i> , 2004, 173, 4847-4858.	0.8	125
21	Imaging of cAMP Levels and Protein Kinase A Activity Reveals That Retinal Waves Drive Oscillations in Second-Messenger Cascades. <i>Journal of Neuroscience</i> , 2006, 26, 12807-12815.	3.8	119
22	The Role of Type 4 Phosphodiesterases in Generating Microdomains of cAMP: Large Scale Stochastic Simulations. <i>PLoS ONE</i> , 2010, 5, e11725.	2.5	113
23	Compartmentalisation of cAMP and Ca ²⁺ signals. <i>Current Opinion in Cell Biology</i> , 2002, 14, 160-166.	5.6	111
24	Cardiac Hypertrophy Is Inhibited by a Local Pool of cAMP Regulated by Phosphodiesterase 2. <i>Circulation Research</i> , 2015, 117, 707-719.	10.7	111
25	cAMP: From Long-Range Second Messenger to Nanodomain Signalling. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 209-222.	8.6	102
26	Receptor-associated independent cAMP nanodomains mediate spatiotemporal specificity of GPCR signaling. <i>Cell</i> , 2022, 185, 1130-1142.e11.	27.8	102
27	Use of Chimeric Fluorescent Proteins and Fluorescence Resonance Energy Transfer to Monitor Cellular Responses. <i>Circulation Research</i> , 2004, 94, 866-873.	10.7	97
28	Cyclic nucleotide phosphodiesterase 1A: a key regulator of cardiac fibroblast activation and extracellular matrix remodeling in the heart. <i>Basic Research in Cardiology</i> , 2011, 106, 1023-1039.	6.0	96
29	Protein Kinase A Gating of a Pseudopodial-located RhoA/ROCK/p38/NHE1 Signal Module Regulates Invasion in Breast Cancer Cell Lines. <i>Molecular Biology of the Cell</i> , 2005, 16, 3117-3127.	2.5	92
30	PDE2A2 regulates mitochondria morphology and apoptotic cell death via local modulation of cAMP/PKA signalling. <i>ELife</i> , 2017, 6, .	5.9	83
31	Phosphodiesterases and compartmentalized cAMP signalling in the heart. <i>European Journal of Cell Biology</i> , 2006, 85, 693-697.	3.7	76
32	Spatial control of cAMP signalling in health and disease. <i>Current Opinion in Pharmacology</i> , 2011, 11, 649-655.	3.6	74
33	CFTR regulation in human airway epithelial cells requires integrity of the actin cytoskeleton and compartmentalized cAMP and PKA activity. <i>Journal of Cell Science</i> , 2012, 125, 1106-1117.	2.1	73
34	Activation of PKA in cell requires higher concentration of cAMP than in vitro: implications for compartmentalization of cAMP signalling. <i>Scientific Reports</i> , 2017, 7, 14090.	3.4	72
35	Unitary permeability of gap junction channels to second messengers measured by FRET microscopy. <i>Nature Methods</i> , 2007, 4, 353-358.	19.6	71
36	Plasma Membrane Calcium Pump (PMCA4)-Neuronal Nitric-oxide Synthase Complex Regulates Cardiac Contractility through Modulation of a Compartmentalized Cyclic Nucleotide Microdomain. <i>Journal of Biological Chemistry</i> , 2011, 286, 41520-41529.	3.5	70

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37	cAMP and Ca ²⁺ interplay: a matter of oscillation patterns. <i>Trends in Neurosciences</i> , 2003, 26, 53-55.	8.8	69
38	Improvement of a FRET-based Indicator for cAMP by Linker Design and Stabilization of Donor-acceptor Interaction. <i>Journal of Molecular Biology</i> , 2005, 354, 546-555.	4.3	69
39	Cell entry and cAMP imaging of anthrax edema toxin. <i>EMBO Journal</i> , 2006, 25, 5405-5413.	8.2	68
40	Human MYO18B, a Novel Unconventional Myosin Heavy Chain Expressed in Striated Muscles Moves into the Myonuclei upon Differentiation. <i>Journal of Molecular Biology</i> , 2003, 326, 137-149.	4.3	67
41	β ² -Adrenergic- and muscarinic receptor-induced changes in cAMP activity in adult cardiac myocytes detected with FRET-based biosensor. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C455-C461.	4.6	67
42	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca ²⁺ Mobilization From Acidic Stores in Pancreatic β-Cells. <i>Diabetes</i> , 2018, 67, 1128-1139.	0.9	67
43	PKA and PDE4D3 anchoring to AKAP9 provides distinct regulation of cAMP signals at the centrosome. <i>Journal of Cell Biology</i> , 2012, 198, 607-621.	5.2	65
44	Real-time analysis of cAMP-mediated regulation of ciliary motility in single primary human airway epithelial cells. <i>Journal of Cell Science</i> , 2006, 119, 4176-4186.	2.1	64
45	Missense mutations in Desmocollin-2 N-terminus, associated with arrhythmogenic right ventricular cardiomyopathy, affect intracellular localization of desmocollin-2 in vitro. <i>BMC Medical Genetics</i> , 2007, 8, 65.	2.0	63
46	Phosphodiesterases and subcellular compartmentalized cAMP signaling in the cardiovascular system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H379-H390.	3.4	63
47	Termination of cAMP signals by Ca ²⁺ and G _i via extracellular Ca ²⁺ sensors. <i>Journal of Cell Biology</i> , 2005, 171, 303-312.	5.2	60
48	Cardiomyocyte Membrane Structure and cAMP Compartmentation Produce Anatomical Variation in β ² AR-cAMP Responsiveness in Murine Hearts. <i>Cell Reports</i> , 2018, 23, 459-469.	6.3	58
49	EPAC1 activation by cAMP stabilizes CFTR at the membrane by promoting its interaction with NHERF1. <i>Journal of Cell Science</i> , 2016, 129, 2599-2612.	2.1	56
50	Myosin Va cooperates with PKA R11 to mediate maintenance of the endplate in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2031-2036.	7.6	54
51	Modulation of Compartmentalised Cyclic Nucleotide Signalling via Local Inhibition of Phosphodiesterase Activity. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1672.	4.2	48
52	A Phosphodiesterase 3B-based Signaling Complex Integrates Exchange Protein Activated by cAMP 1 and Phosphatidylinositol 3-Kinase Signals in Human Arterial Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 16285-16296.	3.5	47
53	Phosphatases control PKA-dependent functional microdomains at the outer mitochondrial membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6497-E6506.	7.6	43
54	Whole-Cell cAMP and PKA Activity are Epiphenomena, Nanodomain Signaling Matters. <i>Physiology</i> , 2019, 34, 240-249.	3.3	41

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55	Compartmentalized cAMP/PKA signalling regulates cardiac excitation-contraction coupling. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 27, 399-403.	1.9	40
56	Rapsyn mediates subsynaptic anchoring of PKA type I and stabilisation of acetylcholine receptor in vivo. <i>Journal of Cell Science</i> , 2012, 125, 714-723.	2.1	40
57	Odorant receptors at the growth cone are coupled to localized cAMP and Ca ²⁺ increases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3537-3542.	7.6	38
58	Efficacy of B-Type Natriuretic Peptide Is Coupled to Phosphodiesterase 2A in Cardiac Sympathetic Neurons. <i>Hypertension</i> , 2015, 66, 190-198.	5.2	38
59	Correctors of mutant CFTR enhance subcortical cAMP-PKA signaling through modulating ezrin phosphorylation and cytoskeleton organization. <i>Journal of Cell Science</i> , 2016, 129, 1128-1140.	2.1	38
60	Transgenic fruit-flies expressing a FRET-based sensor for in vivo imaging of cAMP dynamics. <i>Cellular Signalling</i> , 2007, 19, 2296-2303.	3.7	34
61	Troponin destabilization impairs sarcomere-cytoskeleton interactions in iPSC-derived cardiomyocytes from dilated cardiomyopathy patients. <i>Scientific Reports</i> , 2020, 10, 209.	3.4	33
62	Phosphodiesterases Maintain Signaling Fidelity via Compartmentalization of Cyclic Nucleotides. <i>Physiology</i> , 2014, 29, 141-149.	3.3	32
63	IP ₃ -mediated Ca ²⁺ release regulates atrial Ca ²⁺ transients and pacemaker function by stimulation of adenylyl cyclases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H95-H107.	3.4	31
64	Oxidation of Protein Kinase A Regulatory Subunit PKAR β Protects Against Myocardial Ischemia-Reperfusion Injury by Inhibiting Lysosomal-Triggered Calcium Release. <i>Circulation</i> , 2021, 143, 449-465.	9.3	31
65	17 β -Estradiol rescues F508CFTR functional expression in human cystic fibrosis airway CFBE41o cells through the up-regulation of NHERF1. <i>Biology of the Cell</i> , 2008, 100, 399-412.	2.0	30
66	Sustained exposure to catecholamines affects cAMP/PKA compartmentalised signalling in adult rat ventricular myocytes. <i>Cellular Signalling</i> , 2016, 28, 725-732.	3.7	29
67	Imaging Signal Transduction in Living Cells with GFP-Based Probes. <i>IUBMB Life</i> , 2000, 49, 375-379.	3.6	26
68	Developmentally acquired PKA localisation in mouse oocytes and embryos. <i>Developmental Biology</i> , 2008, 317, 36-45.	2.1	25
69	Small-molecule FRET probes for protein kinase activity monitoring in living cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 750-755.	2.2	23
70	cGMP-cAMP interplay in cardiac myocytes: a local affair with far-reaching consequences for heart function. <i>Biochemical Society Transactions</i> , 2012, 40, 11-14.	3.4	23
71	Participation of Myosin Va and Pka Type I in the Regeneration of Neuromuscular Junctions. <i>PLoS ONE</i> , 2012, 7, e40860.	2.5	23
72	Control of 12AR- and N-methyl-D-aspartate (NMDA) Receptor-Dependent cAMP Dynamics in Hippocampal Neurons. <i>PLoS Computational Biology</i> , 2016, 12, e1004735.	3.1	23

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73	Using cAMP Sensors to Study Cardiac Nanodomains. <i>Journal of Cardiovascular Development and Disease</i> , 2018, 5, 17.	1.7	23
74	Components of the mitochondrial cAMP signalosome. <i>Biochemical Society Transactions</i> , 2017, 45, 269-274.	3.4	22
75	Phosphodiesterase 2A as a therapeutic target to restore cardiac neurotransmission during sympathetic hyperactivity. <i>JCI Insight</i> , 2018, 3, .	5.0	22
76	Measuring Spatiotemporal Dynamics of Cyclic AMP Signaling in Real-Time Using FRET-Based Biosensors. <i>Methods in Molecular Biology</i> , 2011, 746, 297-316.	0.0	21
77	Imaging cAMP nanodomains in the heart. <i>Biochemical Society Transactions</i> , 2019, 47, 1383-1392.	3.4	21
78	Phosphodiesterase 2A2 regulates mitochondria clearance through Parkin-dependent mitophagy. <i>Communications Biology</i> , 2020, 3, 596.	4.5	20
79	PKA microdomain organisation and cAMP handling in healthy and dystrophic muscle in vivo. <i>Cellular Signalling</i> , 2009, 21, 819-826.	3.7	19
80	Regulation of cAMP-dependent Protein Kinases. <i>Journal of Biological Chemistry</i> , 2010, 285, 35910-35918.	3.5	19
81	Bifunctional Ligands for Inhibition of Tight-Binding Protein-Protein Interactions. <i>Bioconjugate Chemistry</i> , 2016, 27, 1900-1910.	3.8	19
82	Biochemical characterization and cellular imaging of a novel, membrane permeable fluorescent cAMP analog. <i>BMC Biochemistry</i> , 2008, 9, 18.	4.3	18
83	cAMP imaging of cells treated with pertussis toxin, cholera toxin, and anthrax edema toxin. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 429-433.	2.2	18
84	Measuring Dynamic Changes in cAMP Using Fluorescence Resonance Energy Transfer. <i>Methods in Molecular Biology</i> , 2004, 284, 259-270.	0.0	17
85	Phosphorylation of ezrin on Thr567 is required for the synergistic activation of cell spreading by EPAC1 and protein kinase A in HEK293T cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1749-1758.	4.1	15
86	CNP regulates cardiac contractility and increases cGMP near both SERCA and TnI: difference from BNP visualized by targeted cGMP biosensors. <i>Cardiovascular Research</i> , 2022, 118, 1506-1519.	3.7	15
87	Analysis of Compartmentalized cAMP: A Method to Compare Signals from Differently Targeted FRET Reporters. <i>Methods in Molecular Biology</i> , 2014, 1071, 59-71.	0.0	15
88	Targeting FRET-Based Reporters for cAMP and PKA Activity Using AKAP79. <i>Sensors</i> , 2018, 18, 2164.	4.0	14
89	Cytoskeleton regulators CAPZA2 and INF2 associate with CFTR to control its plasma membrane levels under EPAC1 activation. <i>Biochemical Journal</i> , 2020, 477, 2561-2580.	3.8	14
90	Axelrod Symposium 2019: Phosphoproteomic Analysis of G-Protein-Coupled Pathways. <i>Molecular Pharmacology</i> , 2021, 99, 383-391.	2.3	13

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91	A Novel Approach Combining Real-Time Imaging and the Patch-Clamp Technique to Calibrate FRET-Based Reporters for cAMP in Their Cellular Microenvironment. <i>Methods in Molecular Biology</i> , 2015, 1294, 25-40.	0.0	13
92	Local Termination of 3'5'-Cyclic Adenosine Monophosphate Signals: The Role of A Kinase Anchoring Protein-Tethered Phosphodiesterases. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 58, 345-353.	1.9	12
93	Adenoviral Transduction of FRET-Based Biosensors for cAMP in Primary Adult Mouse Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2015, 1294, 103-115.	0.0	11
94	Multi-Compartment, Early Disruption of cGMP and cAMP Signalling in Cardiac Myocytes from the mdx Model of Duchenne Muscular Dystrophy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7056.	4.2	11
95	Dimerization of Fab fragments enables ready screening of phage antibodies that affect hepatocyte growth factor/scatter factor activity on target cells. <i>European Journal of Immunology</i> , 1997, 27, 618-623.	3.3	10
96	AKAP79 Orchestrates a Cyclic AMP Signalosome Adjacent to Orai1 Ca ²⁺ Channels. <i>Function</i> , 2021, 2, zqab036.	2.1	10
97	Heterogeneity of Second Messenger Levels in Living Cells. <i>Novartis Foundation Symposium</i> , 2008, 239, 85-95.	0.0	9
98	Photon Moment Analysis in Cells in the Presence of Photo-Bleaching. <i>Applied Spectroscopy</i> , 2005, 59, 227-236.	2.5	8
99	Quantification and Comparison of Signals Generated by Different FRET-Based cAMP Reporters. <i>Methods in Molecular Biology</i> , 2019, 1947, 217-237.	0.0	8
100	Integrated Proteomics Unveils Nuclear PDE3A2 as a Regulator of Cardiac Myocyte Hypertrophy. <i>Circulation Research</i> , 2023, 132, 828-848.	10.7	8
101	Study of Cyclic Adenosine Monophosphate Microdomains in Cells. <i>Methods in Molecular Biology</i> , 2005, 307, 001-014.	0.0	6
102	Response to Wagner et al.: phosphodiesterase-2"anti-adrenergic friend or hypertrophic foe in heart disease?. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2016, 389, 1143-1145.	3.1	6
103	Increase in Ca ²⁺ current by sustained cAMP levels enhances proliferation rate in GH3 cells. <i>Life Sciences</i> , 2018, 192, 144-150.	4.4	6
104	Adenylyl cyclase isoform 1 contributes to sinoatrial node automaticity via functional microdomains. <i>JCI Insight</i> , 2022, 7, .	5.0	5
105	Deciphering cellular signals in adult mouse sinoatrial node cells. <i>IScience</i> , 2022, 25, 103693.	4.1	4
106	Using the Proteomics Toolbox to Resolve Topology and Dynamics of Compartmentalized cAMP Signaling. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4667.	4.2	4
107	Compartmentalized cAMP signalling and control of cardiac rhythm. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2023, 378, .	4.2	4
108	cAMP Buffering via Liquid-Liquid Phase Separation. <i>Function</i> , 2020, 2, zqaa048.	2.1	3

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109	Abnormal Cyclic Nucleotide Signaling at the Outer Mitochondrial Membrane In Sympathetic Neurons During the Early Stages of Hypertension. <i>Hypertension</i> , 2022, 79, 1374-1384.	5.2	3
110	Selection of Functional Antibodies on the Basis of Valency. <i>Methods in Molecular Biology</i> , 2002, 178, 255-258.	0.0	2
111	cAMP Compartmentalisation and Hypertrophy of the Heart: "Good" Pools of cAMP and "Bad" Pools of cAMP Coexist in the Same Cardiac Myocyte. <i>Cardiac and Vascular Biology</i> , 2017, , 117-141.	0.0	2
112	Phosphodiesterase 2A, cGMP stimulated. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	2
113	Compartmentalization and Regulation of Cyclic Nucleotide Signaling in The CNS. , 2014, , 59-76.		1
114	FRET-ting about RhoA signalling in heart and vasculature: a new tool in our cardiovascular toolbox. <i>Cardiovascular Research</i> , 2018, 114, e25-e27.	3.7	0
115	Compartmentalized cAMP signaling in arterial myocytes. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
116	Spatial and Temporal Relationships of Cyclic Nucleotides in Intact Cells. , 2003, , 459-464.		0
117	Biochemical Characterization and Cellular Imaging of a Novel, Membrane Permeable Fluorescent Camp Analog. , 2011, , 107-129.		0
118	Submicroscopic cAMP/PKA Compartmentalization: Ion flux at the Cardiomyocyte Plasmalemma. <i>FASEB Journal</i> , 2019, 33, 676.6.	0.5	0
119	Quantitative Phosphoproteomics to Study cAMP Signaling. <i>Methods in Molecular Biology</i> , 2022, 2483, 281-296.	0.0	0
120	Micro-2D Cell Culture for cAMP Measurements Using FRET Reporters in Human iPSC-Derived Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2022, 2483, 141-165.	0.0	0
121	Regulation of cardiac function by cAMP nanodomains. <i>Bioscience Reports</i> , 2023, 43, .	2.7	0
122	cAMP Compartmentalisation in Human Myometrial Cells. <i>Cells</i> , 2023, 12, 718.	4.3	0
123	Phase separation of protein kinase A: a new paradigm in cardiac regulation?. <i>Nature Reviews Cardiology</i> , 2024, 21, 523-523.	13.8	0
124	Activation of IP3R in atrial cardiomyocytes leads to generation of cytosolic cAMP. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 0, , .	3.4	0