

Amritlal Mandal

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,259
citations

471371

17
h-index

302012

39
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49
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49
docs citations

49
times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of matrix metalloproteinases: an overview. <i>Molecular and Cellular Biochemistry</i> , 2003, 253, 269-285.	1.4	982
2	Protective role of magnesium in cardiovascular diseases: a review. <i>Molecular and Cellular Biochemistry</i> , 2002, 238, 163-179.	1.4	201
3	Oxidant, antioxidant and physical exercise. <i>Molecular and Cellular Biochemistry</i> , 2003, 253, 307-312.	1.4	189
4	Clinical implications of matrix metalloproteinases. <i>Molecular and Cellular Biochemistry</i> , 2003, 252, 305-329.	1.4	135
5	TRPV4 in porcine lens epithelium regulates hemichannel-mediated ATP release and Na-K-ATPase activity. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1751-C1761.	2.1	77
6	Complement activation in heart diseases. <i>Cellular Signalling</i> , 2000, 12, 607-617.	1.7	64
7	Structure and evolutionary aspects of matrix metalloproteinases: a brief overview. <i>Molecular and Cellular Biochemistry</i> , 2003, 253, 31-40.	1.4	61
8	Ouabain stimulates Na-K-ATPase through a sodium/hydrogen exchanger-1 (NHE-1)-dependent mechanism in human kidney proximal tubule cells. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, F77-F90.	1.3	60
9	Hyposmotic stress causes ATP release and stimulates Na,K-ATPase activity in porcine lens. <i>Journal of Cellular Physiology</i> , 2012, 227, 1428-1437.	2.0	42
10	Hydrostatic Pressure-Induced Release of Stored Calcium in Cultured Rat Optic Nerve Head Astrocytes. , 2010, 51, 3129.		33
11	Inhibition of Na ⁺ /Ca ²⁺ exchanger by peroxynitrite in microsomes of pulmonary smooth muscle: role of matrix metalloproteinase-2. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1671, 70-78.	1.1	24
12	Damage to lens fiber cells causes TRPV4-dependent Src family kinase activation in the epithelium. <i>Experimental Eye Research</i> , 2015, 140, 85-93.	1.2	24
13	Ouabain-induced stimulation of sodium-hydrogen exchange in rat optic nerve astrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C100-C110.	2.1	22
14	Activation of TRPV1 channels leads to stimulation of NKCC1 cotransport in the lens. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C793-C802.	2.1	21
15	Role of Ca ²⁺ -Dependent Metalloprotease-2 in Stimulating Ca ²⁺ -ATPase Activity Under Peroxynitrite Treatment in Bovine Pulmonary Artery Smooth Muscle Membrane. <i>IUBMB Life</i> , 2002, 53, 167-173.	1.5	20
16	The Na ⁺ /H ⁺ Exchanger Controls Deoxycholic Acid-Induced Apoptosis by a H ⁺ -Activated, Na ⁺ -Dependent Ionic Shift in Esophageal Cells. <i>PLoS ONE</i> , 2011, 6, e23835.	1.1	20
17	Role of PKC β -p38MAPK α -Gii β axis in NADPH oxidase derived $\text{O}_2^{\cdot -}$ overflow="scroll">< mml:mrow>< mml:mrow>< mml:msubsup>< mml:mtxt>O</mml:mtxt></mml:mrow>< mml:mrow>< mml:mn>2</mml:mn></mml:mrow></mml:math> activation of cPLA2 under U46619 stimulation in pulmonary artery smooth muscle cells. <i>Archives of Biochemistry and Biophysics</i> , 2012, 523, 169-180.		19
18	Nitric Oxide Regulation of Na, K-ATPase Activity in Ocular Ciliary Epithelium Involves Src Family Kinase. <i>Journal of Cellular Physiology</i> , 2014, 229, 343-352.	2.0	18

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19	Calcium entry via connexin hemichannels in lens epithelium. <i>Experimental Eye Research</i> , 2015, 132, 52-58.	1.2	18
20	The Significance of TRPV4 Channels and Hemichannels in the Lens and Ciliary Epithelium. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 504-508.	0.6	18
21	Ca ²⁺ influx mechanisms in caveolae vesicles of pulmonary smooth muscle plasma membrane under inhibition of $\hat{1}\pm 2\hat{1}^2$ isozyme of Na ⁺ /K ⁺ -ATPase by ouabain. <i>Life Sciences</i> , 2009, 84, 139-148.	2.0	15
22	The effect of endothelin-1 on Src-family tyrosine kinases and Na,K-ATPase activity in porcine lens epithelium. <i>Journal of Cellular Physiology</i> , 2011, 226, 2555-2561.	2.0	15
23	TRPV1 activation stimulates NKCC1 and increases hydrostatic pressure in the mouse lens. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C969-C980.	2.1	14
24	Identification, purification and partial characterization of tissue inhibitor of matrix metalloproteinase-2 in bovine pulmonary artery smooth muscle. <i>Molecular and Cellular Biochemistry</i> , 2003, 254, 275-287.	1.4	13
25	Solubilization, purification and reconstitution of Ca ²⁺ -ATPase from bovine pulmonary artery smooth muscle microsomes by different detergents: Preservation of native structure and function of the enzyme by DHPC. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 20-31.	1.1	13
26	TRPV1-dependent ERK1/2 activation in porcine lens epithelium. <i>Experimental Eye Research</i> , 2018, 172, 128-136.	1.2	13
27	Role of membrane-associated Ca ⁺ dependent matrix metalloprotease-2 in the oxidant activation of Ca ²⁺ ATpase by tertiary butylhydroperoxide. <i>Molecular and Cellular Biochemistry</i> , 2002, 237, 85-93.	1.4	12
28	Role of MMP-2 in PKC $\hat{1}$ -mediated inhibition of Na ⁺ dependent Ca ²⁺ uptake in microsomes of pulmonary smooth muscle: Involvement of a pertussis toxin sensitive protein. <i>Molecular and Cellular Biochemistry</i> , 2005, 280, 107-117.	1.4	12
29	Responses of Sodium-Hydrogen Exchange to Nitric Oxide in Porcine Cultured Nonpigmented Ciliary Epithelium. , 2009, 50, 5851.		11
30	Role of PKC $\hat{1}$ -p38MAPK $\hat{1}$ axis in peroxynitrite-mediated inhibition of $\hat{1}^2$ -adrenergic response in pulmonary artery smooth muscle cells. <i>Cellular Signalling</i> , 2013, 25, 512-526.	1.7	11
31	Role of matrix metalloprotease-2 in oxidant activation of Ca ²⁺ -ATPase by hydrogen peroxide in pulmonary vascular smooth muscle plasma membrane. <i>Journal of Biosciences</i> , 2003, 28, 205-213.	0.5	10
32	Identification, purification and characterization of matrix metalloproteinase-2 in bovine pulmonary artery smooth muscle plasma membrane. <i>Molecular and Cellular Biochemistry</i> , 2004, 258, 73-89.	1.4	10
33	Elevated hydrostatic pressure activates sodium/hydrogen exchanger-1 in rat optic nerve head astrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C111-C120.	2.1	10
34	Nonpigmented Ciliary Epithelial Cells Respond to Acetazolamide by a Soluble Adenylyl Cyclase Mechanism. , 2014, 55, 187.		9
35	Matrix Metalloproteinase-2-Mediated Inhibition of Na ⁺ -Dependent Ca ²⁺ Uptake by Superoxide Radicals (O ₂ ⁻) in Microsomes of Pulmonary Smooth Muscle. <i>IUBMB Life</i> , 2004, 56, 267-276.	1.5	7
36	Isolation of MMP-2 from MMP-2/TIMP-2 complex: characterization of the complex and the free enzyme in pulmonary vascular smooth muscle plasma membrane. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1674, 158-74.	1.1	7

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37	A Role for Calcium-Activated Adenylate Cyclase and Protein Kinase A in the Lens Src Family Kinase and Na,K-ATPase Response to Hyposmotic Stress. , 2017, 58, 4447.		6
38	Identification, purification and partial characterization of tissue inhibitor of matrix metalloproteinase-1 (TIMP-1) in bovine pulmonary artery smooth muscle. Molecular and Cellular Biochemistry, 2003, 254, 145-155.	1.4	4
39	PKC ϵ -NADPH Oxidase ϵ -PKC ζ Dependent Kv1.5 Phosphorylation by Endothelin-1 Modulates Nav1.5 ϵ -NCX1 ϵ -Cav1.2 Axis in Stimulating Ca ²⁺ Level in Caveolae of Pulmonary Artery Smooth Muscle Cells. Cell Biochemistry and Biophysics, 2021, 79, 57-71.	0.9	4
40	Role of MMP-2 in inhibiting Na ⁺ dependent Ca ²⁺ uptake by H ₂ O ₂ in microsomes isolated from pulmonary smooth muscle. Molecular and Cellular Biochemistry, 2005, 270, 79-87.	1.4	3
41	Role of PKC- η in NADPH oxidase ϵ -PKC ζ - $\text{G}\beta$ axis dependent inhibition of β -adrenergic response by U46619 in pulmonary artery smooth muscle cells. Archives of Biochemistry and Biophysics, 2013, 540, 133-144.	1.4	3
42	Na ⁺ /K ⁺ -ATPase: A Perspective. , 2016, , 3-30.		3
43	Src Family Kinase Links Insulin Signaling to Short Term Regulation of Na,K-ATPase in Nonpigmented Ciliary Epithelium. Journal of Cellular Physiology, 2017, 232, 1489-1500.	2.0	3
44	Calcium Handling in Pulmonary Vasculature Under Oxidative Stress: Focus on SERCA. , 2016, , 207-226.		1
45	Phospholemman: A Brief Overview. , 2016, , 243-259.		1
46	Role of MMP-2 in oxidant-mediated regulation of Ca ²⁺ uptake in microsomes of bovine pulmonary artery smooth muscle. Indian Journal of Biochemistry and Biophysics, 2005, 42, 19-27.	0.2	1
47	Chapter 16 Ca ²⁺ dynamics under oxidant stress in the cardiovascular system. Cell and Molecular Response To Stress, 2001, , 213-228.	0.4	0
48	Solid Support Synthesis of a Dnp-Labeled Peptide for Assay of Matrix Metalloproteinase-2. , 2017, , 607-619.		0
49	Evidence for Aldosterone ϵ -mediated regulation of Na ϵ K ATPase in kidney proximal tubules. FASEB Journal, 2010, 24, 606.25.	0.2	0