

Renate B Pilz

List of Publications by Year in descending order

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68
papers

3,125
citations

101543

36
h-index

155660

55
g-index

69
all docs

69
docs citations

69
times ranked

4136
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Gene Expression by Cyclic GMP. <i>Circulation Research</i> , 2003, 93, 1034-1046.	4.5	262
2	Hydrogen Sulfide's Mechanisms of Toxicity and Development of an Antidote. <i>Scientific Reports</i> , 2016, 6, 20831.	3.3	170
3	A DNA Polymerase- β -Primase Cofactor with Homology to Replication Protein A-32 Regulates DNA Replication in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 5807-5818.	3.4	145
4	Regulation of Gene Expression by cGMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 1996, 271, 4597-4600.	3.4	122
5	Nongenomic Thyroid Hormone Signaling Occurs Through a Plasma Membrane-localized Receptor. <i>Science Signaling</i> , 2014, 7, ra48.	3.6	119
6	Cyclic-GMP-Dependent Protein Kinase Inhibits the Ras/Mitogen-Activated Protein Kinase Pathway. <i>Molecular and Cellular Biology</i> , 1998, 18, 6983-6994.	2.3	104
7	Role of cyclic GMP in gene regulation. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 1239.	3.0	103
8	NO activation of fos promoter elements requires nuclear translocation of G-kinase I and CREB phosphorylation but is independent of MAP kinase activation. <i>Oncogene</i> , 2000, 19, 6324-6333.	5.9	86
9	Type II cGMP-dependent Protein Kinase Mediates Osteoblast Mechanotransduction. <i>Journal of Biological Chemistry</i> , 2009, 284, 14796-14808.	3.4	86
10	Cyclic GMP and Protein Kinase G Control a Src-Containing Mechanosome in Osteoblasts. <i>Science Signaling</i> , 2010, 3, ra91.	3.6	80
11	Nitric oxide and cGMP regulate gene expression in neuronal and glial cells by activating type II cGMP-dependent protein kinase. <i>FASEB Journal</i> , 1999, 13, 2143-2152.	0.5	77
12	cGMP-dependent Protein Kinase Inhibits Serum-response Element-dependent Transcription by Inhibiting Rho Activation and Functions. <i>Journal of Biological Chemistry</i> , 2002, 277, 37382-37393.	3.4	76
13	Pro-survival Effects of 17 β -Estradiol on Osteocytes Are Mediated by Nitric Oxide/cGMP via Differential Actions of cGMP-dependent Protein Kinases I and II. <i>Journal of Biological Chemistry</i> , 2012, 287, 978-988.	3.4	72
14	Reactions of Nitric Oxide with Vitamin B12 and Its Precursor, Cobinamide. <i>Biochemistry</i> , 2003, 42, 8900-8908.	2.5	70
15	Akt Phosphorylation and Regulation of Transketolase Is a Nodal Point for Amino Acid Control of Purine Synthesis. <i>Molecular Cell</i> , 2014, 55, 264-276.	9.7	70
16	Nitric Oxide Regulation of Gene Transcription via Soluble Guanylate Cyclase and Type I cGMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 9489-9493.	3.4	69
17	Oncogenic Ras Leads to Rho Activation by Activating the Mitogen-activated Protein Kinase Pathway and Decreasing Rho-GTPase-activating Protein Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 2807-2818.	3.4	66
18	Nitric oxide and cyclic GMP functions in bone. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 76, 62-70.	2.7	62

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19	A Novel, Direct NO Donor Regulates Osteoblast and Osteoclast Functions and Increases Bone Mass in Ovariectomized Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 46-59.	2.8	60
20	cGMP-dependent Protein Kinase \hat{I}^2 Physically and Functionally Interacts with the Transcriptional Regulator TFII-I. <i>Journal of Biological Chemistry</i> , 2002, 277, 32003-32014.	3.4	59
21	Sodium Nitrite and Sodium Thiosulfate Are Effective Against Acute Cyanide Poisoning When Administered by Intramuscular Injection. <i>Annals of Emergency Medicine</i> , 2017, 69, 718-725.e4.	0.6	56
22	Rho Isoform-specific Interaction with IQGAP1 Promotes Breast Cancer Cell Proliferation and Migration. <i>Journal of Biological Chemistry</i> , 2012, 287, 38367-38378.	3.4	54
23	The Phosphatidylinositol 3-Kinase/Akt Cassette Regulates Purine Nucleotide Synthesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 3521-3528.	3.4	53
24	Synergism between Calcium and Cyclic GMP in Cyclic AMP Response Element-Dependent Transcriptional Regulation Requires Cooperation between CREB and C/EBP- \hat{I}^2 . <i>Molecular and Cellular Biology</i> , 2003, 23, 4066-4082.	2.3	50
25	Protein Kinase G Activation Reverses Oxidative Stress and Restores Osteoblast Function and Bone Formation in Male Mice With Type 1 Diabetes. <i>Diabetes</i> , 2018, 67, 607-623.	0.6	50
26	Protein Kinase G and Focal Adhesion Kinase Converge on Src/Akt/ \hat{I}^2 -Catenin Signaling Module in Osteoblast Mechanotransduction. <i>Journal of Biological Chemistry</i> , 2012, 287, 21509-21519.	3.4	49
27	cGMP-dependent protein kinase anchoring by IRAG regulates its nuclear translocation and transcriptional activity. <i>Cellular Signalling</i> , 2008, 20, 1392-1399.	3.6	48
28	Cell cycle regulation of purine synthesis by phosphoribosyl pyrophosphate and inorganic phosphate. <i>Biochemical Journal</i> , 2013, 454, 91-99.	3.7	48
29	cAMP-induced NF- \hat{I}^B (p50/relB) binding to a c-myc intronic enhancer correlates with c-myc up-regulation and inhibition of erythroleukemia cell differentiation. <i>Oncogene</i> , 1997, 15, 1859-1870.	5.9	45
30	Cyclic GMP-dependent Protein Kinase Regulates CCAAT Enhancer-binding Protein \hat{I}^2 Functions through Inhibition of Glycogen Synthase Kinase-3. <i>Journal of Biological Chemistry</i> , 2005, 280, 32683-32692.	3.4	44
31	Vasodilator-stimulated Phosphoprotein Activation of Serum-response Element-dependent Transcription Occurs Downstream of RhoA and Is Inhibited by cGMP-dependent Protein Kinase Phosphorylation. <i>Journal of Biological Chemistry</i> , 2004, 279, 10397-10407.	3.4	41
32	Nitrosyl-Cobinamide, a New and Direct Nitric Oxide- \hat{I}^2 -Releasing Drug Effective <i>In Vivo</i> . <i>Experimental Biology and Medicine</i> , 2007, 232, 1432-1440.	2.4	41
33	Transcriptional elongation of c-myc is regulated by NF- \hat{I}^B (p50/RelB). <i>Oncogene</i> , 1999, 18, 7360-7369.	5.9	40
34	Soluble Guanylate Cyclase as a Novel Treatment Target for Osteoporosis. <i>Endocrinology</i> , 2014, 155, 4720-4730.	2.8	40
35	Effects of lovastatin on Rho isoform expression, activity, and association with guanine nucleotide dissociation inhibitors. <i>Biochemical Pharmacology</i> , 2008, 75, 405-413.	4.4	39
36	Nitrocobinamide, a New Cyanide Antidote That Can Be Administered by Intramuscular Injection. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1750-1759.	6.4	38

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37	Identification of the Interface between cGMP-dependent Protein Kinase Î^2 and Its Interaction Partners TFIIH and IRAG Reveals a Common Interaction Motif. <i>Journal of Biological Chemistry</i> , 2005, 280, 38211-38218.	3.4	36
38	<scp>CD</scp>20â€positive plasmablastic lymphoma with excellent response to bortezomib combined with rituximab. <i>European Journal of Haematology</i> , 2014, 93, 77-80.	2.2	34
39	A Cysteine-rich LIM-only Protein Mediates Regulation of Smooth Muscle-specific Gene Expression by cGMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2007, 282, 33367-33380.	3.4	32
40	Aortic pathology from protein kinase G activation is prevented by an antioxidant vitamin B12 analog. <i>Nature Communications</i> , 2019, 10, 3533.	12.8	30
41	Regulation of cGMP-dependent Protein Kinase Expression by Rho and KrÃ¼ppel-like Transcription Factor-4*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16951-16961.	3.4	29
42	Guanosine 3â€2,5â€2-Cyclic Monophosphate (cGMP)/cGMP-Dependent Protein Kinase Induce Interleukin-6 Transcription in Osteoblasts. <i>Molecular Endocrinology</i> , 2007, 21, 1148-1162.	3.7	29
43	The activity of cGMP-dependent protein kinase Î^2 is not directly regulated by oxidation-induced disulfide formation at cysteine 43. <i>Journal of Biological Chemistry</i> , 2017, 292, 8262-8268.	3.4	29
44	Regulation of the Erythroid Transcription Factor NF-E2 by Cyclic Adenosine Monophosphateâ€Dependent Protein Kinase. <i>Blood</i> , 1998, 91, 3193-3201.	1.4	23
45	Quantitative determination of Rapâ€1 activation in cyclic nucleotide-treated HL-60 leukemic cells: lack of Rapâ€1 activation in variant cells. <i>Oncogene</i> , 2000, 19, 4029-4034.	5.9	23
46	Nitrosyl-cobinamide (NO-Cbi), a new nitric oxide donor, improves wound healing through cGMP/cGMP-dependent protein kinase. <i>Cellular Signalling</i> , 2013, 25, 2374-2382.	3.6	22
47	A Molecular Mechanism for Therapeutic Effects of cGMP-elevating Agents in Pulmonary Arterial Hypertension. <i>Journal of Biological Chemistry</i> , 2013, 288, 16557-16566.	3.4	21
48	Nitric Oxide as a Mediator of Estrogen Effects in Osteocytes. <i>Vitamins and Hormones</i> , 2014, 96, 247-263.	1.7	19
49	Sodium azide poisoning: a narrative review. <i>Clinical Toxicology</i> , 2021, 59, 683-697.	1.9	19
50	cGMP-dependent protein kinase-2 regulates bone mass and prevents diabetic bone loss. <i>Journal of Endocrinology</i> , 2018, 238, 203-219.	2.6	15
51	Cyclic AMP regulates expression of the R Î^2 subunit of cAMP-dependent protein kinase through an alternatively spliced 5â€2 UTR. <i>FEBS Journal</i> , 2001, 268, 5920-5929.	0.2	14
52	A substitution in cGMP-dependent protein kinase 1 associated with aortic disease induces an active conformation in the absence of cGMP. <i>Journal of Biological Chemistry</i> , 2020, 295, 10394-10405.	3.4	11
53	Protein kinase G1 regulates bone regeneration and rescues diabetic fracture healing. <i>JCI Insight</i> , 2020, 5, .	5.0	10
54	Deficient post-translational processing of Rap 1A in variant HL-60 cells. <i>Oncogene</i> , 1998, 17, 2211-2223.	5.9	8

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55	Constitutive protein kinase G activation exacerbates stress-induced cardiomyopathy. <i>British Journal of Pharmacology</i> , 2022, 179, 2413-2429.	5.4	7
56	Decreased phosphorylation of a low molecular weight protein by cGMP-dependent protein kinase in variant HL-60 cells resistant to nitric oxide- and cGMP-induced differentiation. <i>Molecular and Cellular Biochemistry</i> , 1998, 185, 111-121.	3.1	4
57	Metabolic interaction between amino acid deprivation and cisplatin synergistically reduces phosphoribosyl-pyrophosphate and augments cisplatin cytotoxicity. <i>Scientific Reports</i> , 2020, 10, 19907.	3.3	4
58	Targeting NO Signaling for the Treatment of Osteoporosis. <i>Current Medicinal Chemistry</i> , 2016, 23, 2746-2753.	2.4	4
59	Development of sodium tetrathionate as a cyanide and methanethiol antidote. <i>Clinical Toxicology</i> , 2022, 60, 332-341.	1.9	3
60	Assessment of High School Students'™ Participation in Blood Donation and Registration as an Organ Donor. <i>JAMA Network Open</i> , 2020, 3, e2016377.	5.9	2
61	Regulation of the Erythroid Transcription Factor NF-E2 by Cyclic Adenosine Monophosphate-Dependent Protein Kinase. <i>Blood</i> , 1998, 91, 3193-3201.	1.4	2
62	cGMP and PKGI are required for vascular BMP signaling. <i>BMC Pharmacology</i> , 2011, 11, .	0.4	1
63	A low molecular weight substance purified from human placenta inhibits cAMP-dependent protein kinase and activates protein kinase C. <i>Molecular and Cellular Biochemistry</i> , 1997, 170, 75-83.	3.1	0
64	Src activation by cGMP/PKG II in osteoblasts: characterization of a mechano-sensitive signalling complex. <i>BMC Pharmacology</i> , 2011, 11, .	0.4	0
65	Non-genomic thyroid hormone signaling through NO/cGMP/PKGII. <i>BMC Pharmacology & Toxicology</i> , 2013, 14, .	2.4	0
66	NO/GMP as mediators of estrogen effects in bone. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, .	2.4	0
67	AMINO ACIDS REGULATE DE NOVO PURINE SYNTHESIS VIA AKT REGULATION OF PENTOSE PHOSPHATE PATHWAY ENZYMES. <i>FASEB Journal</i> , 2011, 25, 918.2.	0.5	0
68	PKGII± is activated by metal-dependent oxidation in vitro but not in intact cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 102175.	3.4	0