Lincoln R Potter

List of Publications by Year
in descending order

74 papers	4,680 citations	159358 30 h-index	118652 62 g-index
78 all docs	78 docs citations	78 times ranked	3778 citing authors

#	Article	IF	Citations
1	Natriuretic Peptides, Their Receptors, and Cyclic Guanosine Monophosphate-Dependent Signaling Functions. Endocrine Reviews, 2006, 27, 47-72.	8.9	865
2	Natriuretic Peptides: Their Structures, Receptors, Physiologic Functions and Therapeutic Applications. Handbook of Experimental Pharmacology, 2009, , 341-366.	0.9	444
3	Natriuretic peptide metabolism, clearance and degradation. FEBS Journal, 2011, 278, 1808-1817.	2.2	285
4	Guanylyl cyclase structure, function and regulation. Cellular Signalling, 2011, 23, 1921-1926.	1.7	237
5	Guanylyl Cyclase-linked Natriuretic Peptide Receptors: Structure and Regulation. Journal of Biological Chemistry, 2001, 276, 6057-6060.	1.6	197
6	A new form of guanylyl cyclase is preferentially expressed in rat kidney. Biochemistry, 1990, 29, 10872-10878.	1.2	176
7	Phosphorylation of the Kinase Homology Domain Is Essential for Activation of the A-Type Natriuretic Peptide Receptor. Molecular and Cellular Biology, 1998, 18, 2164-2172.	1.1	149
8	Heterozygous Mutations in Natriuretic Peptide Receptor-B (NPR2) Are Associated with Short Stature. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 1229-1232.	1.8	149
9	Luteinizing hormone reduces the activity of the NPR2 guanylyl cyclase in mouse ovarian follicles, contributing to the cyclic GMP decrease that promotes resumption of meiosis in oocytes. Developmental Biology, 2012, 366, 308-316.	0.9	128
10	Regulation and therapeutic targeting of peptide-activated receptor guanylyl cyclases. , 2011, 130, 71-82.		123
11	Identification and Characterization of the Major Phosphorylation Sites of the B-type Natriuretic Peptide Receptor. Journal of Biological Chemistry, 1998, 273, 15533-15539.	1.6	117
12	Differential Regulation of Membrane Guanylyl Cyclases in Congestive Heart Failure: Natriuretic Peptide Receptor (NPR)-B, Not NPR-A, Is the Predominant Natriuretic Peptide Receptor in the Failing Heart. Endocrinology, 2007, 148, 3518-3522.	1.4	103
13	Phosphorylation-Dependent Regulation of the Guanylyl Cyclase-Linked Natriuretic Peptide Receptor B:Â Dephosphorylation Is a Mechanism of Desensitizationâ€. Biochemistry, 1998, 37, 2422-2429.	1.2	99
14	Dephosphorylation and inactivation of NPR2 guanylyl cyclase in granulosa cells contributes to the LH-induced decrease in cGMP that causes resumption of meiosis in rat oocytes. Development (Cambridge), 2014, 141, 3594-3604.	1.2	92
15	Heterozygous Mutations in Natriuretic Peptide Receptor-B (<i>NPR2</i>) Gene as a Cause of Short Stature. Human Mutation, 2015, 36, 474-481.	1.1	86
16	Novel Bifunctional Natriuretic Peptides as Potential Therapeutics. Journal of Biological Chemistry, 2008, 283, 35003-35009.	1.6	76
17	A Constitutively â€œPhosphorylatedâ€•Guanylyl Cyclase-linked Atrial Natriuretic Peptide Receptor Mutant Is Resistant to Desensitization. Molecular Biology of the Cell, 1999, 10, 1811-1820.	0.9	68
18	Insulin-degrading Enzyme Modulates the Natriuretic Peptide-mediated Signaling Response. Journal of Biological Chemistry, 2011, 286, 4670-4679.	1.6	65

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19	Domain analysis of human transmembrane guanylyl cyclase receptors: implications for regulation. Frontiers in Bioscience - Landmark, 2005, 10, 1205.	3.0	60
20	A Familial Mutation Renders Atrial Natriuretic Peptide Resistant to Proteolytic Degradation. Journal of Biological Chemistry, 2009, 284, 19196-19202.	1.6	60
21	Dendroaspis natriuretic peptide and the designer natriuretic peptide, CD-NP, are resistant to proteolytic inactivation. Journal of Molecular and Cellular Cardiology, 2011, 51, 67-71.	0.9	56
22	Vasopressin-dependent Inhibition of the C-type Natriuretic Peptide Receptor, NPR-B/GC-B, Requires Elevated Intracellular Calcium Concentrations. Journal of Biological Chemistry, 2002, 277, 42423-42430.	1.6	54
23	Renal hyporesponsiveness to atrial natriuretic peptide in congestive heart failure results from reduced atrial natriuretic peptide receptor concentrations. American Journal of Physiology - Renal Physiology, 2007, 292, F1636-F1644.	1.3	51
24	Dephosphorylation of juxtamembrane serines and threonines of the NPR2 guanylyl cyclase is required for rapid resumption of oocyte meiosis in response to luteinizing hormone. Developmental Biology, 2016, 409, 194-201.	0.9	49
25	Activation of Protein Kinase C Stimulates the Dephosphorylation of Natriuretic Peptide Receptor-B at a Single Serine Residue. Journal of Biological Chemistry, 2000, 275, 31099-31106.	1.6	47
26	Lysophosphatidic Acid Inhibits C-Type Natriuretic Peptide Activation of Guanylyl Cyclase-B. Endocrinology, 2003, 144, 240-246.	1.4	44
27	Regulation of intraocular pressure by soluble and membrane guanylate cyclases and their role in glaucoma. Frontiers in Molecular Neuroscience, 2014, 7, 38.	1.4	43
28	The Atrial Natriuretic Peptide Receptor (NPR-A/GC-A) Is Dephosphorylated by Distinct Microcystin-sensitive and Magnesium-dependent Protein Phosphatases. Journal of Biological Chemistry, 2002, 277, 16041-16047.	1.6	40
29	ATP-independent Activation of Natriuretic Peptide Receptors. Journal of Biological Chemistry, 2005, 280, 26928-26932.	1.6	38
30	Down-Regulation Does Not Mediate Natriuretic Peptide-Dependent Desensitization of Natriuretic Peptide Receptor (NPR)-A or NPR-B: Guanylyl Cyclase-Linked Natriuretic Peptide Receptors Do Not Internalize. Molecular Pharmacology, 2005, 67, 174-183.	1.0	38
31	Identification and Characterization of the Phosphorylation Sites of the Guanylyl Cyclase-Linked Natriuretic Peptide Receptors A and B. Methods, 1999, 19, 506-520.	1.9	32
32	Sphingosine-1-Phosphate Inhibits C-Type Natriuretic Peptide Activation of Guanylyl Cyclase B (GC-B/NPR-B). Hypertension, 2004, 43, 1103-1109.	1.3	32
33	Mass Spectrometric Identification of Phosphorylation Sites in Guanylyl Cyclase A and B. Biochemistry, 2010, 49, 10137-10145.	1.2	32
34	ProBNP1â€“108 Is Resistant to Degradation and Activates Guanylyl Cyclase-A with Reduced Potency. Clinical Chemistry, 2011, 57, 1272-1278.	1.5	32
35	Calcium-dependent Dephosphorylation Mediates the Hyperosmotic and Lysophosphatidic Acid-dependent Inhibition of Natriuretic Peptide Receptor-B/Guanylyl Cyclase-B. Journal of Biological Chemistry, 2004, 279, 48513-48519.	1.6	31
36	Differential regulation of NPR-B/GC-B by protein kinase c and calcium. Biochemical Pharmacology, 2005, 70, 686-694.	2.0	31

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37	A Functional Screen Provides Evidence for a Conserved, Regulatory, Juxtamembrane Phosphorylation Site in Guanylyl Cyclase A and B. PLoS ONE, 2012, 7, e36747.	1.1	29
38	A Sensitive Method for Determining the Phosphorylation Status of Natriuretic Peptide Receptors:â€‰ cGK-Iî± Does Not Regulate NPR-A. Biochemistry, 2006, 45, 1295-1303.	1.2	28
39	Spatiotemporal Regulation of the Two Atrial Natriuretic Peptide Receptors in Testis. Endocrinology, 2004, 145, 1392-1401.	1.4	27
40	Dephosphorylation of the NPR2 guanylyl cyclase contributes to inhibition of bone growth by fibroblast growth factor. ELife, 2017, 6, .	2.8	27
41	Guanylyl cyclase (GC)-A and GC-B activities in ventricles and cardiomyocytes from failed and non-failed human hearts: GC-A is inactive in the failed cardiomyocyte. Journal of Molecular and Cellular Cardiology, 2012, 52, 727-732.	0.9	26
42	Guanylyl Cyclases A and B Are Asymmetric Dimers That Are Allosterically Activated by ATP Binding to the Catalytic Domain. Science Signaling, 2012, 5, ra65.	1.6	25
43	Human B-type natriuretic peptide is not degraded by meprin A. Biochemical Pharmacology, 2010, 80, 1007-1011.	2.0	24
44	Adenine nucleotides decrease the apparent<i>K</i>_mof endogenous natriuretic peptide receptors for GTP. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1756-E1763.	1.8	23
45	Dephosphorylation is the mechanism of fibroblast growth factor inhibition of guanylyl cyclase-B. Cellular Signalling, 2017, 40, 222-229.	1.7	21
46	Phosphorylation-dependent regulation of the guanylyl cyclase-linked natriuretic peptide receptors. Peptides, 2005, 26, 1001-1008.	1.2	20
47	Prolonged Atrial Natriuretic Peptide Exposure Stimulates Guanylyl Cyclase-A Degradation. Endocrinology, 2010, 151, 2769-2776.	1.4	19
48	Catalytically Active Guanylyl Cyclase B Requires Endoplasmic Reticulum-mediated Glycosylation, and Mutations That Inhibit This Process Cause Dwarfism. Journal of Biological Chemistry, 2016, 291, 11385-11393.	1.6	19
49	Reduced ability of C-type natriuretic peptide (CNP) to activate natriuretic peptide receptor B (NPR-B) causes dwarfism in lbabâˆ'/âˆ' mice. Peptides, 2008, 29, 1575-1581.	1.2	17
50	A human skeletal overgrowth mutation increases maximal velocity and blocks desensitization of guanylyl cyclase-B. Bone, 2013, 56, 375-382.	1.4	17
51	Male mice with elevated C-type natriuretic peptide-dependent guanylyl cyclase-B activity have increased osteoblasts, bone mass and bone strength. Bone, 2020, 135, 115320.	1.4	17
52	Regulation of the Natriuretic Peptide Receptor 2 (Npr2) by Phosphorylation of Juxtamembrane Serine and Threonine Residues Is Essential for Bifurcation of Sensory Axons. Journal of Neuroscience, 2018, 38, 9768-9780.	1.7	14
53	Antibody Tracking Demonstrates Cell Type-Specific and Ligand-Independent Internalization of Guanylyl Cyclase A and Natriuretic Peptide Receptor C. Molecular Pharmacology, 2011, 80, 155-162.	1.0	12
54	The pseudokinase domains of guanylyl cyclaseâ€"A and â€"B allosterically increase the affinity of their catalytic domains for substrate. Science Signaling, 2019, 12, .	1.6	12

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55	Prevention of guanylyl cyclaseâ€“B dephosphorylation rescues achondroplastic dwarfism. JCI Insight, 2021, 6, .	2.3	12
56	ATP Potentiates Competitive Inhibition of Guanylyl Cyclase A and B by the Staurosporine Analog, GÃ¶6976. Journal of Biological Chemistry, 2011, 286, 33841-33844.	1.6	11
57	Arg13 of B-Type Natriuretic Peptide Reciprocally Modulates Binding to Guanylyl Cyclase but Not Clearance Receptors. Molecular Pharmacology, 2010, 78, 431-435.	1.0	9
58	A Glutamate-Substituted Mutant Mimics the Phosphorylated and Active Form of Guanylyl Cyclase-A. Molecular Pharmacology, 2017, 92, 67-74.	1.0	9
59	â€œCorinationâ€•of the proANP converting enzyme. Cell Metabolism, 2005, 1, 88-90.	7.2	8
60	The indolocarbazole, GÃ¶6976, inhibits guanylyl cyclaseâ€A and â€B. British Journal of Pharmacology, 2011, 164, 499-506.	2.7	7
61	Guanylyl cyclaseâ€A phosphorylation decreases cardiac hypertrophy and improves systolic function in male, but not female, mice. FASEB Journal, 2022, 36, e22069.	0.2	6
62	Cyclic AMP links luteinizing hormone signaling to dephosphorylation and inactivation of the NPR2 guanylyl cyclase in ovarian folliclesâ€. Biology of Reproduction, 2021, 104, 939-941.	1.2	5
63	Skeletal overgrowth-causing mutations mimic an allosterically activated conformation of guanylyl cyclase-B that is inhibited by 2,4,6,-trinitrophenyl ATP. Journal of Biological Chemistry, 2017, 292, 10220-10229.	1.6	4
64	Guanylyl Cyclases. , 2010, , 1399-1407.		1
65	Natriuretic Peptides. , 0, , 125-141.		1
66	A twenty year journey to understand how ATP activates guanylyl cyclase A and B. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
67	Cyclic GMP-mediated intercellular communication in mammalian ovarian follicles. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
68	Dephosphorylation of juxtamembrane serines and threonines of the NPR2 guanylyl cyclase regulates oocyte meiotic resumption. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
69	Catalytically active guanylyl cyclase-B requires glycosylation and mutations that inhibit this process cause dwarfism. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
70	Mutation of a conserved lysine in the kinase homology domain reduces the natriuretic peptide-dependent activity and phosphorylation of guanylyl cyclase-A. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
71	Signals | Natriuretic Peptides, Their Receptors and Therapeutic Applications. , 2021, , 95-98.		0
72	ATPâ€Independent Activation of Natriuretic Peptide Receptors. FASEB Journal, 2006, 20, A972.	0.2	0

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73	Inactivation of Natriuretic Peptides by Human Insulinâ€Degrading Enzyme Reveals New Insights on Substrate Recognition and Selectivity. FASEB Journal, 2010, 24, 681.13.	0.2	0
74	The indolocarbazole, GÃ¶6976, is a competitive inhibitor of guanylyl cyclaseâ€A and â€B. FASEB Journal, 2011, 25, .	0.2	0