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List of Publications by Year in descending order

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108
papers

7,909
citations

60835

43
h-index

52210

86
g-index

118
all docs

118
docs citations

118
times ranked

10097
citing authors

#	ARTICLE	IF	CITATIONS
1	Dorsomorphin inhibits BMP signals required for embryogenesis and iron metabolism. <i>Nature Chemical Biology</i> , 2008, 4, 33-41.	8.0	941
2	BMP type I receptor inhibition reduces heterotopic ossification. <i>Nature Medicine</i> , 2008, 14, 1363-1369.	30.1	577
3	Selective enhancement of endothelial BMPR-II with BMP9 reverses pulmonary arterial hypertension. <i>Nature Medicine</i> , 2015, 21, 777-785.	30.1	411
4	<i>ACVR1</i> ^{R206H} receptor mutation causes fibrodysplasia ossificans progressiva by imparting responsiveness to activin A. <i>Science Translational Medicine</i> , 2015, 7, 303ra137.	13.4	380
5	Structure-activity relationship study of bone morphogenetic protein (BMP) signaling inhibitors. <i>Biorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4388-4392.	2.3	315
6	A New Class of Small Molecule Inhibitor of BMP Signaling. <i>PLoS ONE</i> , 2013, 8, e62721.	2.5	230
7	Targeting BMP signalling in cardiovascular disease and anaemia. <i>Nature Reviews Cardiology</i> , 2016, 13, 106-120.	13.8	201
8	Wnt inhibitors <i>Dkk1</i> and <i>Sost</i> are downstream targets of BMP signaling through the type IA receptor (BMPRIA) in osteoblasts. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 200-210.	3.0	196
9	Bone Morphogenetic Protein (BMP) Type II Receptor Deletion Reveals BMP Ligand-specific Gain of Signaling in Pulmonary Artery Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 24443-24450.	3.5	192
10	Dorsomorphin, a Selective Small Molecule Inhibitor of BMP Signaling, Promotes Cardiomyogenesis in Embryonic Stem Cells. <i>PLoS ONE</i> , 2008, 3, e2904.	2.5	190
11	Constitutively Activated ALK2 and Increased SMAD1/5 Cooperatively Induce Bone Morphogenetic Protein Signaling in Fibrodysplasia Ossificans Progressiva. <i>Journal of Biological Chemistry</i> , 2009, 284, 7149-7156.	3.5	189
12	Inhibition of Bone Morphogenetic Protein Signaling Reduces Vascular Calcification and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 613-622.	4.7	188
13	BMPR-II heterozygous mice have mild pulmonary hypertension and an impaired pulmonary vascular remodeling response to prolonged hypoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L1241-L1247.	3.0	187
14	Two tissue-resident progenitor lineages drive distinct phenotypes of heterotopic ossification. <i>Science Translational Medicine</i> , 2016, 8, 366ra163.	13.4	181
15	Perturbation of hepcidin expression by BMP type I receptor deletion induces iron overload in mice. <i>Blood</i> , 2011, 118, 4224-4230.	1.4	162
16	Inhibition of bone morphogenetic protein signaling attenuates anemia associated with inflammation. <i>Blood</i> , 2011, 117, 4915-4923.	1.4	161
17	Development of an ALK2-Biased BMP Type I Receptor Kinase Inhibitor. <i>ACS Chemical Biology</i> , 2013, 8, 1291-1302.	3.6	135
18	Transforming Growth Factor β 2 Can Stimulate Smad1 Phosphorylation Independently of Bone Morphogenetic Protein Receptors. <i>Journal of Biological Chemistry</i> , 2009, 284, 9755-9763.	3.5	116

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19	A Selective Transforming Growth Factor- β 2 Ligand Trap Attenuates Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 1140-1151.	6.6	113
20	HFE interacts with the BMP type I receptor ALK3 to regulate hepcidin expression. Blood, 2014, 124, 1335-1343.	1.4	111
21	ACTRIIA-Fc rebalances activin/GDF versus BMP signaling in pulmonary hypertension. Science Translational Medicine, 2020, 12, .	13.4	111
22	Applications of small molecule BMP inhibitors in physiology and disease. Cytokine and Growth Factor Reviews, 2009, 20, 409-418.	7.7	103
23	The traumatic bone: trauma-induced heterotopic ossification. Translational Research, 2017, 186, 95-111.	5.2	101
24	NEDD9 targets COL3A1 to promote endothelial fibrosis and pulmonary arterial hypertension. Science Translational Medicine, 2018, 10, .	13.4	94
25	Repulsive Guidance Molecule RGMa Alters Utilization of Bone Morphogenetic Protein (BMP) Type II Receptors by BMP2 and BMP4. Journal of Biological Chemistry, 2007, 282, 18129-18140.	3.5	91
26	Augmentation of smad-dependent BMP signaling in neural crest cells causes craniosynostosis in mice. Journal of Bone and Mineral Research, 2013, 28, 1422-1433.	3.0	90
27	Characterization of GDF2 Mutations and Levels of BMP9 and BMP10 in Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 575-585.	6.6	89
28	Constitutively Active ALK2 Receptor Mutants Require Type II Receptor Cooperation. Molecular and Cellular Biology, 2013, 33, 2413-2424.	2.5	88
29	Structure-Activity Relationship of 3,5-Diaryl-2-aminopyridine ALK2 Inhibitors Reveals Unaltered Binding Affinity for Fibrodysplasia Ossificans Progressiva Causing Mutants. Journal of Medicinal Chemistry, 2014, 57, 7900-7915.	6.6	87
30	Bone Morphogenetic Protein (BMP) Type II Receptor Is Required for BMP-mediated Growth Arrest and Differentiation in Pulmonary Artery Smooth Muscle Cells. Journal of Biological Chemistry, 2008, 283, 3877-3888.	3.5	86
31	Delayed Microvascular Shear Adaptation in Pulmonary Arterial Hypertension. Role of Platelet Endothelial Cell Adhesion Molecule-1 Cleavage. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 1410-1420.	6.6	80
32	The role of bone morphogenetic protein signaling in vascular calcification. Bone, 2020, 141, 115542.	3.0	80
33	Bone morphogenetic protein 6 and oxidized low-density lipoprotein synergistically recruit osteogenic differentiation in endothelial cells. Cardiovascular Research, 2015, 108, 278-287.	3.7	77
34	Bone Morphogenetic Protein 9 Is a Mechanistic Biomarker of Portopulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 891-902.	6.6	77
35	Hapten-Induced Primary and Memory Humoral Responses Are Inhibited by the Infusion of Anti-CD20 Monoclonal Antibody (IDEC-C2B8, Rituximab). Clinical Immunology, 2001, 98, 175-179.	3.3	67
36	Strategic Targeting of Multiple BMP Receptors Prevents Trauma-Induced Heterotopic Ossification. Molecular Therapy, 2017, 25, 1974-1987.	8.1	63

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37	Inhibition of Bone Morphogenetic Protein Signal Transduction Prevents the Medial Vascular Calcification Associated with Matrix Gla Protein Deficiency. PLoS ONE, 2015, 10, e0117098.	2.5	61
38	Circulating Angiogenic Modulatory Factors Predict Survival and Functional Class in Pulmonary Arterial Hypertension. Pulmonary Circulation, 2013, 3, 369-380.	1.8	59
39	A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation. Nature Communications, 2020, 11, 2289.	13.2	58
40	^{125}I -Mediated Activation of Bone Morphogenetic Protein Signaling Governs Stem Cell Activity and Plasticity in Normal and Malignant Mammary Epithelial Cells. Cancer Research, 2013, 73, 1020-1030.	0.9	57
41	The type I BMP receptor Alk3 is required for the induction of hepatic hepcidin gene expression by interleukin-6. Blood, 2014, 123, 2261-2268.	1.4	57
42	Specificity and function of "natural" antibodies in immunodeficient subjects: clues to B cell lineage and development. Journal of Clinical Immunology, 1997, 17, 311-321.	3.8	52
43	The obligatory role of Activin A in the formation of heterotopic bone in Fibrodysplasia Ossificans Progressiva. Bone, 2018, 109, 210-217.	3.0	52
44	Circulating BMP9 Protects the Pulmonary Endothelium during Inflammation-induced Lung Injury in Mice. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1419-1430.	6.6	43
45	Upregulation of the mammalian target of rapamycin complex 1 subunit Raptor by aldosterone induces abnormal pulmonary artery smooth muscle cell survival patterns to promote pulmonary arterial hypertension. FASEB Journal, 2016, 30, 2511-2527.	0.5	41
46	Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification. Bone Research, 2019, 7, 36.	11.7	41
47	BMP9/10 in Pulmonary Vascular Complications of Liver Disease. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1575-1578.	6.6	39
48	Immunochemical properties of anti-Gal alpha 1-3Gal antibodies after sensitization with xenogeneic tissues. Journal of Clinical Immunology, 1999, 19, 116-126.	3.8	38
49	p38 Suppresses Non-epidermal Lineage Markers in a Bone Morphogenetic Protein-dependent Manner via Repression of Smad7. Journal of Biological Chemistry, 2009, 284, 30574-30582.	3.5	35
50	Oral administration of a bone morphogenetic protein type I receptor inhibitor prevents the development of anemia of inflammation. Haematologica, 2015, 100, e68-e71.	3.5	35
51	Sotatercept analog suppresses inflammation to reverse experimental pulmonary arterial hypertension. Scientific Reports, 2022, 12, 7803.	3.4	35
52	Saracatinib is an efficacious clinical candidate for fibrodysplasia ossificans progressiva. JCI Insight, 2021, 6, .	5.0	34
53	Hepcidin Regulation by BMP Signaling in Macrophages Is Lipopolysaccharide Dependent. PLoS ONE, 2012, 7, e44622.	2.5	31
54	Specific Activin Receptor-Like Kinase 3 Inhibitors Enhance Liver Regeneration. Journal of Pharmacology and Experimental Therapeutics, 2014, 351, 549-558.	2.4	26

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55	Exacerbated inflammatory signaling underlies aberrant response to BMP9 in pulmonary arterial hypertension lung endothelial cells. <i>Angiogenesis</i> , 2020, 23, 699-714.	7.2	26
56	A self-amplifying loop of YAP and SHH drives formation and expansion of heterotopic ossification. <i>Science Translational Medicine</i> , 2021, 13, .	13.4	25
57	Left Atrial Esophageal Fistula After Pulmonary Vein Isolation. <i>Circulation</i> , 2007, 115, e432-3.	9.3	24
58	Hormone therapy for prostate cancer and the risk of stroke: a 5-year follow-up study. <i>BJU International</i> , 2012, 109, 1001-1005.	2.8	22
59	Anti-ACVR1 antibodies exacerbate heterotopic ossification in fibrodysplasia ossificans progressiva (FOP) by activating FOP-mutant ACVR1. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	22
60	Takotsubo Cardiomyopathy Complicated by Cardiac Tamponade. <i>Circulation</i> , 2010, 122, 1239-1241.	9.3	21
61	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	20
62	Discovery of 3-(4-sulfamoylnaphthyl)pyrazolo[1,5-a]pyrimidines as potent and selective ALK2 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3356-3362.	2.3	20
63	Circulating NEDD9 is increased in pulmonary arterial hypertension: A multicenter, retrospective analysis. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, 289-299.	0.6	20
64	A phosphorescent probe for cephalexin consisting of mesoporous thioglycolic acid-modified Mn:ZnS quantum dots coated with a molecularly imprinted polymer. <i>Mikrochimica Acta</i> , 2020, 187, 40.	5.2	18
65	Inhibition of bone morphogenetic protein 6 receptors ameliorates Sjögren's syndrome in mice. <i>Scientific Reports</i> , 2020, 10, 2967.	3.4	18
66	BMP Ligand Trap ALK3-Fc Attenuates Osteogenesis and Heterotopic Ossification in Blast-Related Lower Extremity Trauma. <i>Stem Cells and Development</i> , 2021, 30, 91-105.	2.1	18
67	Excess placental secreted frizzled-related protein 1 in maternal smokers impairs fetal growth. <i>Journal of Clinical Investigation</i> , 2015, 125, 4021-4025.	8.2	18
68	Alk3, a BMP Type I Receptor Is Required for the Induction of Hepatic Hcpidin Gene Expression by Interleukin-6. <i>Blood</i> , 2011, 118, 686-686.	1.4	18
69	Fibrodysplasia Ossificans Progressiva: What Have We Achieved and Where Are We Now? Follow-up to the 2015 Lorentz Workshop. <i>Frontiers in Endocrinology</i> , 2021, 12, 732728.	3.5	18
70	Macrophage Migration Inhibitory Factor as a Novel Biomarker of Portopulmonary Hypertension. <i>Pulmonary Circulation</i> , 2016, 6, 498-507.	1.8	15
71	BIOPHYSICAL CHARACTERISTICS OF ANTI-GAL α 1-3GAL IgM BINDING TO CELL SURFACES: IMPLICATIONS FOR XENOTRANSPLANTATION1. <i>Transplantation</i> , 2001, 71, 440-446.	1.1	14
72	Reestablishment of Energy Balance in a Male Mouse Model With POMC Neuron Deletion of BMPR1A. <i>Endocrinology</i> , 2017, 158, 4233-4245.	2.8	13

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73	In Search of the Second Hit in Pulmonary Arterial Hypertension. <i>Circulation Research</i> , 2019, 124, 6-8.	10.7	13
74	Finding the Target: In Silico and Genetic Screening for Mechanistically Novel Drugs in Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 9-11.	6.6	12
75	Bone Morphogenetic Protein-2 Induces Non-Canonical Inflammatory and Oxidative Pathways in Human Retinal Endothelial Cells. <i>Frontiers in Immunology</i> , 2020, 11, 568795.	4.9	11
76	Sotatercept for Pulmonary Arterial Hypertension. <i>New England Journal of Medicine</i> , 2021, 385, 92-93.	30.1	11
77	Novel Approaches to Imaging the Pulmonary Vasculature and Right Heart. <i>Circulation Research</i> , 2022, 130, 1445-1465.	10.7	11
78	Contributions of Muscle-Resident Progenitor Cells to Homeostasis and Disease. <i>Current Molecular Biology Reports</i> , 2015, 1, 175-188.	1.6	10
79	Sensitization with Xenogeneic Tissues Alters the Heavy Chain Repertoire of Human Anti-Gal α 1 β 3Gal Antibodies. <i>Transplantation</i> , 2005, 80, 102-109.	1.1	9
80	Application of in vitro Drug Metabolism Studies in Chemical Structure Optimization for the Treatment of Fibrodysplasia Ossificans Progressiva (FOP). <i>Frontiers in Pharmacology</i> , 2019, 10, 234.	3.6	7
81	Isolating pulmonary microvascular endothelial cells ex vivo: Implications for pulmonary arterial hypertension, and a caution on the use of commercial biomaterials. <i>PLoS ONE</i> , 2019, 14, e0211909.	2.5	7
82	Update in Pulmonary Vascular Disease 2016 and 2017. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 13-23.	6.6	6
83	Career Development of Young Physician-Scientists in the Cardiovascular Sciences. <i>Circulation Research</i> , 2018, 122, 1330-1333.	10.7	6
84	Pharmacologic Strategies for Assaying BMP Signaling Function. <i>Methods in Molecular Biology</i> , 2019, 1891, 221-233.	0.0	6
85	Perspectives on Cardiopulmonary Critical Care for Patients With COVID-19: From Members of the American Heart Association Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation. <i>Journal of the American Heart Association</i> , 2020, 9, e017111.	3.9	6
86	Protocol paper: a multi-center, double-blinded, randomized, 6-month, placebo-controlled study followed by 12-month open label extension to evaluate the safety and efficacy of Saracatinib in Fibrodysplasia Ossificans Progressiva (STOPFOP). <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	2.0	6
87	Elafin in Pulmonary Arterial Hypertension. <i>Beyond Targeting Elastases. American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 1217-1219.	6.6	5
88	Mitochondrial and peroxisomal population in post-pharyngeal glands of leaf-cutting ants after lipid supplementation. <i>Micron</i> , 2015, 68, 8-16.	2.3	5
89	Determination of Fracture Properties of Concrete Using Size and Boundary Effect Models. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1337.	2.6	5
90	Suppressed prefrontal cortex oscillations associate with clinical pain in fibrodysplasia ossificans progressiva. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 54.	2.8	5

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91	A Merging of Paths: Abscisic Acid and Hormonal Cross-Talk in the Control of Seed Dormancy Maintenance and Alleviation. , 0 , 176-223.		4
92	A New Link in the Chain: Unspliced XBP1 in Wnt Signaling and Vascular Calcification. Circulation Research, 2022, 130, 230-233.	10.7	4
93	The Role of Bone Marrow-derived Cells in Pulmonary Arterial Hypertension. What Lies Beneath?. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 822-824.	6.6	3
94	Letter by Morrell et al Regarding Article, "Selective BMP-9 Inhibition Partially Protects Against Experimental Pulmonary Hypertension" Circulation Research, 2019, 124, e81.	10.7	3
95	Periostin. Circulation Research, 2020, 127, 1153-1155.	10.7	3
96	Oral Administration Of a BMP Type I Receptor Inhibitor Prevents The Development Of Anemia Of Inflammation. Blood, 2013, 122, 2195-2195.	1.4	3
97	Decoding the Link Between Inflammation and Pulmonary Arterial Hypertension. Circulation, 2022, 146, 1023-1025.	9.3	3
98	Statistics of the mind. , 1989, , 203-234.		2
99	ST-Segment Elevation Myocardial Infarction Due to Right Coronary Artery Compression by Cardiac Synovial Sarcoma. JACC: Cardiovascular Interventions, 2019, 12, e145-e147.	3.6	2
100	Animal Models of Pulmonary Hypertension. , 2016, , 161-172.		2
101	Approach to Loss of Consciousness: Distinguishing Epileptic Seizures, Psychogenic Nonepileptic Seizures, and Syncope. Seminars in Neurology, 2021, 41, 667-672.	1.4	2
102	Room With a View. Circulation: Cardiovascular Imaging, 2018, 11, e008148.	2.7	1
103	Hepatopulmonary Syndrome, Another Face of Dysregulated BMP9 Signaling. American Journal of Respiratory and Critical Care Medicine, 0, , .	6.6	1
104	Bone Morphogenetic Protein Signaling in Pulmonary Arterial Hypertension. , 2017, , 293-326.		0
105	Generation of an induced pluripotent stem cell line (TRNDi012-B) from Fibrodysplasia Ossificans Progressiva (FOP) patient carrying a heterozygous mutation c. 617G>A in the ACVR1 gene. Stem Cell Research, 2021, 54, 102424.	0.7	0
106	Role of BMP Signaling In the Anemia of Chronic Disease. Blood, 2010, 116, 2043-2043.	1.4	0
107	Angiogenesis Redux: An Overall Protective Role of VEGF/KDR Signaling in the Microvasculature in Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2023, 43, 1784-1787.	4.7	0
108	FAM222A, Part of the BET-Regulated Basal Endothelial Transcriptome, Is a Novel Determinant of Endothelial Biology and Angiogenesis" Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2024, 44, 143-155.	4.7	0