Paul B Yu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8208037/publications.pdf

Version: 2024-02-01

103 papers	7,792 citations	61984 43 h-index	51608 86 g-index
110 all docs	110 docs citations	110 times ranked	8689 citing authors

#	Article	IF	Citations
1	Dorsomorphin inhibits BMP signals required for embryogenesis and iron metabolism. Nature Chemical Biology, 2008, 4, 33-41.	8.0	930
2	BMP type I receptor inhibition reduces heterotopic ossification. Nature Medicine, 2008, 14, 1363-1369.	30.7	559
3	Selective enhancement of endothelial BMPR-II with BMP9 reverses pulmonary arterial hypertension. Nature Medicine, 2015, 21, 777-785.	30.7	389
4	ACVR1 ^{R206H} receptor mutation causes fibrodysplasia ossificans progressiva by imparting responsiveness to activin A. Science Translational Medicine, 2015, 7, 303ra137.	12.4	366
5	Structureâ€“activity relationship study of bone morphogenetic protein (BMP) signaling inhibitors. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4388-4392.	2.2	307
6	A New Class of Small Molecule Inhibitor of BMP Signaling. PLoS ONE, 2013, 8, e62721.	2.5	219
7	Targeting BMP signalling in cardiovascular disease and anaemia. Nature Reviews Cardiology, 2016, 13, 106-120.	13.7	193
8	Bone Morphogenetic Protein (BMP) Type II Receptor Deletion Reveals BMP Ligand-specific Gain of Signaling in Pulmonary Artery Smooth Muscle Cells. Journal of Biological Chemistry, 2005, 280, 24443-24450.	3.4	190
9	Wnt inhibitors Dkk1 and Sost are downstream targets of BMP signaling through the type IA receptor (BMPRIA) in osteoblasts. Journal of Bone and Mineral Research, 2010, 25, 200-210.	2.8	190
10	Dorsomorphin, a Selective Small Molecule Inhibitor of BMP Signaling, Promotes Cardiomyogenesis in Embryonic Stem Cells. PLoS ONE, 2008, 3, e2904.	2.5	188
11	Inhibition of Bone Morphogenetic Protein Signaling Reduces Vascular Calcification and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 613-622.	2.4	188
12	BMPR-IIheterozygous mice have mild pulmonary hypertension and an impaired pulmonary vascular remodeling response to prolonged hypoxia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L1241-L1247.	2.9	186
13	Constitutively Activated ALK2 and Increased SMAD1/5 Cooperatively Induce Bone Morphogenetic Protein Signaling in Fibrodysplasia Ossificans Progressiva. Journal of Biological Chemistry, 2009, 284, 7149-7156.	3.4	184
14	Two tissue-resident progenitor lineages drive distinct phenotypes of heterotopic ossification. Science Translational Medicine, 2016, 8, 366ra163.	12.4	168
15	Inhibition of bone morphogenetic protein signaling attenuates anemia associated with inflammation. Blood, 2011, 117, 4915-4923.	1.4	161
16	Perturbation of hepcidin expression by BMP type I receptor deletion induces iron overload in mice. Blood, 2011, 118, 4224-4230.	1.4	161
17	Dorsomorphin and LDN-193189 inhibit BMP-mediated Smad, p38 and Akt signalling in C2C12 cells. International Journal of Biochemistry and Cell Biology, 2010, 42, 1802-1807.	2.8	132
18	Development of an ALK2-Biased BMP Type I Receptor Kinase Inhibitor. ACS Chemical Biology, 2013, 8, 1291-1302.	3.4	131

#	Article	IF	Citations
19	Transforming Growth Factor Î² Can Stimulate Smad1 Phosphorylation Independently of Bone Morphogenic Protein Receptors. Journal of Biological Chemistry, 2009, 284, 9755-9763.	3.4	115
20	HFE interacts with the BMP type I receptor ALK3 to regulate hepcidin expression. Blood, 2014, 124, 1335-1343.	1.4	110
21	A Selective Transforming Growth Factor-Î² Ligand Trap Attenuates Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 1140-1151.	5.6	109
22	Applications of small molecule BMP inhibitors in physiology and disease. Cytokine and Growth Factor Reviews, 2009, 20, 409-418.	7.2	103
23	ACTRIIA-Fc rebalances activin/GDF versus BMP signaling in pulmonary hypertension. Science Translational Medicine, 2020, 12, .	12.4	98
24	The traumatic bone: trauma-induced heterotopic ossification. Translational Research, 2017, 186, 95-111.	5.0	95
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.	3.4	91
26	NEDD9 targets COL3A1 to promote endothelial fibrosis and pulmonary arterial hypertension. Science Translational Medicine, 2018, 10, .	12.4	89
27	Augmentation of smad-dependent BMP signaling in neural crest cells causes craniosynostosis in mice. Journal of Bone and Mineral Research, 2013, 28, 1422-1433.	2.8	88
28	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.	3.4	86
29	Constitutively Active ALK2 Receptor Mutants Require Type II Receptor Cooperation. Molecular and Cellular Biology, 2013, 33, 2413-2424.	2.3	85
30	Structureâ€“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.	6.4	84
31	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.	5.6	80
32	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.	5.6	77
33	Bone morphogenetic protein 6 and oxidized low-density lipoprotein synergistically recruit osteogenic differentiation in endothelial cells. Cardiovascular Research, 2015, 108, 278-287.	3.8	73
34	The role of bone morphogenetic protein signaling in vascular calcification. Bone, 2020, 141, 115542.	2.9	72
35	Bone Morphogenetic Protein 9 Is a Mechanistic Biomarker of Portopulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 891-902.	5.6	69
36	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.	3.2	67

#	Article	IF	Citations
37	Modulation of natural IgM binding and complement activation by natural IgG antibodies: a role for IgG anti-Gal alpha1-3Gal antibodies. Journal of Immunology, 1996, 157, 5163-8.	0.8	59
38	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	58
39	Strategic Targeting of Multiple BMP Receptors Prevents Trauma-Induced Heterotopic Ossification. Molecular Therapy, 2017, 25, 1974-1987.	8.2	57
40	Circulating Angiogenic Modulatory Factors Predict Survival and Functional Class in Pulmonary Arterial Hypertension. Pulmonary Circulation, 2013, 3, 369-380.	1.7	56
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	56
42	Î”Np63Î±-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	55
43	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	51
44	A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation. Nature Communications, 2020, 11, 2289.	12.8	48
45	The obligatory role of Activin A in the formation of heterotopic bone in Fibrodysplasia Ossificans Progressiva. Bone, 2018, 109, 210-217.	2.9	45
46	Naturally occurring anti-Â-galactosyl antibodies: relationship to xenoreactive anti-Â-galactosyl antibodies. Glycobiology, 1999, 9, 865-873.	2.5	43
47	Upâ€regulation 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	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	Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification. Bone Research, 2019, 7, 36.	11.4	37
50	p63 Suppresses Non-epidermal Lineage Markers in a Bone Morphogenetic Protein-dependent Manner via Repression of Smad7. Journal of Biological Chemistry, 2009, 284, 30574-30582.	3.4	35
51	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
52	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.	5.6	34
53	C-terminal Domain (CTD) Small Phosphatase-like 2 Modulates the Canonical Bone Morphogenetic Protein (BMP) Signaling and Mesenchymal Differentiation via Smad Dephosphorylation. Journal of Biological Chemistry, 2014, 289, 26441-26450.	3.4	32
54	BMP9/10 in Pulmonary Vascular Complications of Liver Disease. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1575-1578.	5.6	32

#	Article	IF	Citations
55	Hepcidin Regulation by BMP Signaling in Macrophages Is Lipopolysaccharide Dependent. PLoS ONE, 2012, 7, e44622.	2.5	31
56	Saracatinib is an efficacious clinical candidate for fibrodysplasia ossificans progressiva. JCI Insight, 2021, 6, .	5.0	29
57	Sotatercept analog suppresses inflammation to reverse experimental pulmonary arterial hypertension. Scientific Reports, 2022, 12, 7803.	3.3	26
58	Left Atrialâ€“Esophageal Fistula After Pulmonary Vein Isolation. Circulation, 2007, 115, e432-3.	1.6	24
59	Specific Activin Receptorâ€“Like Kinase 3 Inhibitors Enhance Liver Regeneration. Journal of Pharmacology and Experimental Therapeutics, 2014, 351, 549-558.	2.5	24
60	Exacerbated inflammatory signaling underlies aberrant response to BMP9 in pulmonary arterial hypertension lung endothelial cells. Angiogenesis, 2020, 23, 699-714.	7.2	22
61	Takotsubo Cardiomyopathy Complicated by Cardiac Tamponade. Circulation, 2010, 122, 1239-1241.	1.6	21
62	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. Journal of Visualized Experiments, 2016, , .	0.3	19
63	Discovery of 3-(4-sulfamoylnaphthyl)pyrazolo[1,5-a]pyrimidines as potent and selective ALK2 inhibitors. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3356-3362.	2.2	19
64	Circulating NEDD9 is increased in pulmonary arterial hypertension: A multicenter, retrospective analysis. Journal of Heart and Lung Transplantation, 2020, 39, 289-299.	0.6	19
65	Excess placental secreted frizzled-related protein 1 in maternal smokers impairs fetal growth. Journal of Clinical Investigation, 2015, 125, 4021-4025.	8.2	18
66	Alk3, a BMP Type I Receptor Is Required for the Induction of Hepatic Hepcidin Gene Expression by Interleukin-6. Blood, 2011, 118, 686-686.	1.4	18
67	Inhibition of bone morphogenetic protein 6 receptors ameliorates SjÃ¶grenâ€™s syndrome in mice. Scientific Reports, 2020, 10, 2967.	3.3	17
68	BMP Ligand Trap ALK3-Fc Attenuates Osteogenesis and Heterotopic Ossification in Blast-Related Lower Extremity Trauma. Stem Cells and Development, 2021, 30, 91-105.	2.1	17
69	Anti-ACVR1 antibodies exacerbate heterotopic ossification in fibrodysplasia ossificans progressiva (FOP) by activating FOP-mutant ACVR1. Journal of Clinical Investigation, 2022, 132, .	8.2	17
70	A self-amplifying loop of YAP and SHH drives formation and expansion of heterotopic ossification. Science Translational Medicine, 2021, 13, .	12.4	16
71	Macrophage Migration Inhibitory Factor as a Novel Biomarker of Portopulmonary Hypertension. Pulmonary Circulation, 2016, 6, 498-507.	1.7	15
72	Fibrodysplasia Ossificans Progressiva: What Have We Achieved and Where Are We Now? Follow-up to the 2015 Lorentz Workshop. Frontiers in Endocrinology, 2021, 12, 732728.	3.5	15

#	Article	IF	Citations
73	BIOPHYSICAL CHARACTERISTICS OF ANTI-GALÎ±1-3GAL IgM BINDING TO CELL SURFACES: IMPLICATIONS FOR XENOTRANSPLANTATION1. Transplantation, 2001, 71, 440-446.	1.0	14
74	Brief Report. Journal of Acquired Immune Deficiency Syndromes (1999), 2015, 70, 236-241.	2.1	12
75	Reestablishment of Energy Balance in a Male Mouse Model With POMC Neuron Deletion of BMPR1A. Endocrinology, 2017, 158, 4233-4245.	2.8	12
76	Finding the Target:In Silicoand Genetic Screening for Mechanistically Novel Drugs in Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 9-11.	5.6	12
77	In Search of the Second Hit in Pulmonary Arterial Hypertension. Circulation Research, 2019, 124, 6-8.	4.5	12
78	Contributions of Muscle-Resident Progenitor Cells to Homeostasis and Disease. Current Molecular Biology Reports, 2015, 1, 175-188.	1.6	10
79	Bone Morphogenetic Protein-2 Induces Non-Canonical Inflammatory and Oxidative Pathways in Human Retinal Endothelial Cells. Frontiers in Immunology, 2020, 11, 568795.	4.8	10
80	Sotatercept for Pulmonary Arterial Hypertension. New England Journal of Medicine, 2021, 385, 92-93.	27.0	10
81	Novel Approaches to Imaging the Pulmonary Vasculature and Right Heart. Circulation Research, 2022, 130, 1445-1465.	4.5	10
82	Sensitization with Xenogeneic Tissues Alters the Heavy Chain Repertoire of Human Anti-GalÎ±1â€“3Gal Antibodies. Transplantation, 2005, 80, 102-109.	1.0	9
83	Application of in vitro Drug Metabolism Studies in Chemical Structure Optimization for the Treatment of Fibrodysplasia Ossificans Progressiva (FOP). Frontiers in Pharmacology, 2019, 10, 234.	3.5	7
84	Isolating pulmonary microvascular endothelial cells ex vivo: Implications for pulmonary arterial hypertension, and a caution on the use of commercial biomaterials. PLoS ONE, 2019, 14, e0211909.	2.5	7
85	Update in Pulmonary Vascular Disease 2016 and 2017. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 13-23.	5.6	6
86	Career Development of Young Physicianâ€“Scientists in the Cardiovascular Sciences. Circulation Research, 2018, 122, 1330-1333.	4.5	6
87	Elafin in Pulmonary Arterial Hypertension. Beyond Targeting Elastases. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1217-1219.	5.6	5
88	Pharmacologic Strategies for Assaying BMP Signaling Function. Methods in Molecular Biology, 2019, 1891, 221-233.	0.9	5
89	Perspectives on Cardiopulmonary Critical Care for Patients With COVIDâ€19: From Members of the American Heart Association Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation. Journal of the American Heart Association, 2020, 9, e017111.	3.7	5
90	Suppressed prefrontal cortex oscillations associate with clinical pain in fibrodysplasia ossificans progressiva. Orphanet Journal of Rare Diseases, 2021, 16, 54.	2.7	4

#	Article	IF	Citations
91	A New Link in the Chain: Unspliced XBP1 in Wnt Signaling and Vascular Calcification. Circulation Research, 2022, 130, 230-233.	4.5	4
92	The Role of Bone Marrowâ€“derived Cells in Pulmonary Arterial Hypertension. What Lies Beneath?. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 822-824.	5.6	3
93	Oral Administration Of a BMP Type I Receptor Inhibitor Prevents The Development Of Anemia Of Inflammation. Blood, 2013, 122, 2195-2195.	1.4	3
94	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). BMC Musculoskeletal Disorders, 2022, 23, .	1.9	3
95	ST-Segment Elevation Myocardial Infarction Due to Right Coronary ArteryÂCompression by Cardiac SynovialÂSarcoma. JACC: Cardiovascular Interventions, 2019, 12, e145-e147.	2.9	2
96	Letter by Morrell et al Regarding Article, â€œSelective BMP-9 Inhibition Partially Protects Against Experimental Pulmonary Hypertensionâ€• Circulation Research, 2019, 124, e81.	4.5	2
97	Periostin. Circulation Research, 2020, 127, 1153-1155.	4.5	2
98	Animal Models of Pulmonary Hypertension. , 2016, , 161-172.		2
99	Room With a View. Circulation: Cardiovascular Imaging, 2018, 11, e008148.	2.6	1
100	Abstract 17285: A Selective Transforming Growth Factor-Î² and Growth Differentiation Factor-15 Ligand Trap Attenuates Pulmonary Hypertension. Circulation, 2014, 130, .	1.6	1
101	Bone Morphogenetic Protein Signaling in Pulmonary Arterial Hypertension. , 2017, , 293-326.		0
102	Generation of an induced pluripotent stem cell line (TRNDi012-B) from Fibrodysplasia Ossificans Progressiva (FOP) patient carrying a heterozygous mutation c. 617GÂ>ÂA in the ACVR1 gene. Stem Cell Research, 2021, 54, 102424.	0.7	0
103	Role of BMP Signaling In the Anemia of Chronic Disease. Blood, 2010, 116, 2043-2043.	1.4	0