Peter ten Dijke

List of Publications by Year
in descending order

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485 papers	62,183 citations	506 128 h-index	1044 234 g-index
503 all docs	503 docs citations	503 times ranked	51332 citing authors

#	Article	IF	Citations
1	TGF-Î² signalling from cell membrane to nucleus through SMAD proteins. Nature, 1997, 390, 465-471.	13.7	3,514
2	Induction of Apoptosis by ASK1, a Mammalian MAPKKK That Activates SAPK/JNK and p38 Signaling Pathways. Science, 1997, 275, 90-94.	6.0	2,209
3	Identification of Smad7, a TGFÎ²-inducible antagonist of TGF-Î² signalling. Nature, 1997, 389, 631-635.	13.7	1,684
4	Direct binding of Smad3 and Smad4 to critical TGFbeta -inducible elements in the promoter of human plasminogen activator inhibitor-type 1gene. EMBO Journal, 1998, 17, 3091-3100.	3.5	1,637
5	New insights into TGF-Î²â€"Smad signalling. Trends in Biochemical Sciences, 2004, 29, 265-273.	3.7	1,097
6	Balancing the activation state of the endothelium via two distinct TGF-beta type I receptors. EMBO Journal, 2002, 21, 1743-1753.	3.5	972
7	TGF-beta receptor-mediated signalling through Smad2, Smad3 and Smad4. EMBO Journal, 1997, 16, 5353-5362.	3.5	946
8	Activin receptor-like kinase 1 modulates transforming growth factor-beta 1 signaling in the regulation of angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2626-2631.	3.3	785
9	Sclerostin Is an Osteocyte-expressed Negative Regulator of Bone Formation, But Not a Classical BMP Antagonist. Journal of Experimental Medicine, 2004, 199, 805-814.	4.2	785
10	Identification and Functional Characterization of Distinct Critically Important Bone Morphogenetic Protein-specific Response Elements in the Id1 Promoter. Journal of Biological Chemistry, 2002, 277, 4883-4891.	1.6	771
11	Cloning of a TGF$beta; type I receptor that forms a heteromeric complex with the TGF$beta; type II receptor. Cell, 1993, 75, 681-692.	13.5	769
12	Specificity, diversity, and regulation in TGFâ€Î² superfamily signaling. FASEB Journal, 1999, 13, 2105-2124.	0.2	725
13	Extracellular control of TGFÎ² signalling in vascular development and disease. Nature Reviews Molecular Cell Biology, 2007, 8, 857-869.	16.1	708
14	Targeting TGF-Î² Signaling in Cancer. Trends in Cancer, 2017, 3, 56-71.	3.8	697
15	TGF-Î²-Mediated Epithelial-Mesenchymal Transition and Cancer Metastasis. International Journal of Molecular Sciences, 2019, 20, 2767.	1.8	635
16	Activin Receptor-like Kinase (ALK)1 Is an Antagonistic Mediator of Lateral TGFÎ²/ALK5 Signaling. Molecular Cell, 2003, 12, 817-828.	4.5	631
17	Transforming Growth Factor-Î²1 to the Bone. Endocrine Reviews, 2005, 26, 743-774.	8.9	622
18	Endoglin promotes endothelial cell proliferation and TGF-Î²/ALK1 signal transduction. EMBO Journal, 2004, 23, 4018-4028.	3.5	592

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19	TGF-Î² in progression of liver disease. Cell and Tissue Research, 2012, 347, 245-256.	1.5	581
20	Characterization of type I receptors for transforming growth factor-beta and activin. Science, 1994, 264, 101-104.	6.0	544
21	Apoptosis in podocytes induced by TGF-Î² and Smad7. Journal of Clinical Investigation, 2001, 108, 807-816.	3.9	534
22	Identification and Functional Characterization of a Smad Binding Element (SBE) in the JunB Promoter That Acts as a Transforming Growth Factor-Î², Activin, and Bone Morphogenetic Protein-inducible Enhancer. Journal of Biological Chemistry, 1998, 273, 21145-21152.	1.6	523
23	Cloning and characterization of a human type II receptor for bone morphogenetic proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7632-7636.	3.3	507
24	Abnormal angiogenesis but intact hematopoietic potential in TGF-beta type I receptor-deficient mice. EMBO Journal, 2001, 20, 1663-1673.	3.5	488
25	BMP-9 signals via ALK1 and inhibits bFGF-induced endothelial cell proliferation and VEGF-stimulated angiogenesis. Journal of Cell Science, 2007, 120, 964-972.	1.2	480
26	TGF-Î² signaling in vascular biology and dysfunction. Cell Research, 2009, 19, 116-127.	5.7	476
27	Signaling of transforming growth factor-Î² family members through Smad proteins. FEBS Journal, 2000, 267, 6954-6967.	0.2	466
28	Osteogenic protein-1 binds to activin type II receptors and induces certain activin-like effects.. Journal of Cell Biology, 1995, 130, 217-226.	2.3	463
29	<scp>TGF</scp>â€Î² signalling and liver disease. FEBS Journal, 2016, 283, 2219-2232.	2.2	457
30	TGF-? receptor function in the endothelium. Cardiovascular Research, 2005, 65, 599-608.	1.8	453
31	Regulation of cell proliferation by Smad proteins. Journal of Cellular Physiology, 2002, 191, 1-16.	2.0	418
32	TGF-Î² signaling by Smad proteins. Advances in Immunology, 2000, 75, 115-157.	1.1	410
33	Hedgehog Creates a Gradient of DPP Activity in Drosophila Wing Imaginal Discs. Molecular Cell, 2000, 5, 59-71.	4.5	375
34	MED12 Controls the Response to Multiple Cancer Drugs through Regulation of TGF-Î² Receptor Signaling. Cell, 2012, 151, 937-950.	13.5	371
35	TGF-Î² signalling and its role in cancer progression and metastasis. Cancer and Metastasis Reviews, 2012, 31, 553-568.	2.7	367
36	Induction of Sonic Hedgehog Mediators by Transforming Growth Factor-Î²: Smad3-Dependent Activation of <i>Gli2</i> and <i>Gli1</i> Expression <i>In vitro</i> and <i>In vivo</i>. Cancer Research, 2007, 67, 6981-6986.	0.4	359

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37	FK506 activates BMPR2, rescues endothelial dysfunction, and reverses pulmonary hypertension. Journal of Clinical Investigation, 2013, 123, 3600-3613.	3.9	354
38	The L45 loop in type I receptors for TGF-Î² family members is a critical determinant in specifying Smad isoform activation. FEBS Letters, 1998, 434, 83-87.	1.3	352
39	Negative regulation of TGF-Î² receptor/Smad signal transduction. Current Opinion in Cell Biology, 2007, 19, 176-184.	2.6	351
40	Smad7 prevents activation of hepatic stellate cells and liver fibrosis in rats. Gastroenterology, 2003, 125, 178-191.	0.6	348
41	Signaling by members of the TGF-Î² family in vascular morphogenesis and disease. Trends in Cell Biology, 2010, 20, 556-567.	3.6	348
42	Role of Smad Proteins and Transcription Factor Sp1 in p21Waf1/Cip1 Regulation by Transforming Growth Factor-Î². Journal of Biological Chemistry, 2000, 275, 29244-29256.	1.6	347
43	Phosphorylation of Ser465 and Ser467 in the C Terminus of Smad2 Mediates Interaction with Smad4 and Is Required for Transforming Growth Factor-Î² Signaling. Journal of Biological Chemistry, 1997, 272, 28107-28115.	1.6	345
44	The Tumor Suppressor Smad4 Is Required for Transforming Growth Factor Î²â€"Induced Epithelial to Mesenchymal Transition and Bone Metastasis of Breast Cancer Cells. Cancer Research, 2006, 66, 2202-2209.	0.4	344
45	Spatial proteogenomics reveals distinct and evolutionarily conserved hepatic macrophage niches. Cell, 2022, 185, 379-396.e38.	13.5	343
46	Signaling inputs converge on nuclear effectors in TGF-Î² signaling. Trends in Biochemical Sciences, 2000, 25, 64-70.	3.7	340
47	SOST/sclerostin, an osteocyte-derived negative regulator of bone formation. Cytokine and Growth Factor Reviews, 2005, 16, 319-327.	3.2	325
48	The dynamic roles of TGFâ€Î² in cancer. Journal of Pathology, 2011, 223, 206-219.	2.1	325
49	Induction of Inhibitory Smad6 and Smad7 mRNA by TGF-Î² Family Members. Biochemical and Biophysical Research Communications, 1998, 249, 505-511.	1.0	323
50	Distinct transforming growth factor-beta (TGF-beta) receptor subsets as determinants of cellular responsiveness to three TGF-beta isoforms. Journal of Biological Chemistry, 1990, 265, 20533-20538.	1.6	302
51	Endoglin in angiogenesis and vascular diseases. Angiogenesis, 2008, 11, 79-89.	3.7	291
52	Identification of another member of the transforming growth factor type beta gene family.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 4715-4719.	3.3	286
53	Generation, expansion and functional analysis of endothelial cells and pericytes derived from human pluripotent stem cells. Nature Protocols, 2014, 9, 1514-1531.	5.5	281
54	Stimulation of Id1 Expression by Bone Morphogenetic Protein Is Sufficient and Necessary for Bone Morphogenetic Proteinâ€"Induced Activation of Endothelial Cells. Circulation, 2002, 106, 2263-2270.	1.6	280

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55	Regulation of endothelial cell plasticity by TGF-Î². Cell and Tissue Research, 2012, 347, 177-186.	1.5	279
56	Immunoregulation by members of the TGFÎ² superfamily. Nature Reviews Immunology, 2016, 16, 723-740.	10.6	276
57	USP4 is regulated by AKT phosphorylation and directly deubiquitylates TGF-Î² type I receptor. Nature Cell Biology, 2012, 14, 717-726.	4.6	267
58	Distinct and Overlapping Patterns of Localization of Bone Morphogenetic Protein (BMP) Family Members and a BMP Type II Receptor During Fracture Healing in Rats. Bone, 1998, 22, 605-612.	1.4	260
59	Apoptosis in podocytes induced by TGF-Î² and Smad7. Journal of Clinical Investigation, 2001, 108, 807-816.	3.9	255
60	Signaling via hetero-oligomeric complexes of type I and type II serine/threonine kinase receptors. Current Opinion in Cell Biology, 1996, 8, 139-145.	2.6	250
61	TGF-Î²-Induced Endothelial-Mesenchymal Transition in Fibrotic Diseases. International Journal of Molecular Sciences, 2017, 18, 2157.	1.8	249
62	Wnt but Not BMP Signaling Is Involved in the Inhibitory Action of Sclerostin on BMP-Stimulated Bone Formation. Journal of Bone and Mineral Research, 2006, 22, 19-28.	3.1	238
63	TGF-Î² Signaling in Control of Cardiovascular Function. Cold Spring Harbor Perspectives in Biology, 2018, 10, a022210.	2.3	238
64	BMP signaling in vascular diseases. FEBS Letters, 2012, 586, 1993-2002.	1.3	236
65	Transforming Growth Factor-Î² Signal Transduction in Angiogenesis and Vascular Disorders. Chest, 2005, 128, 585S-590S.	0.4	235
66	Matrix Metalloproteinase-14 (MT1-MMP)â€"Mediated Endoglin Shedding Inhibits Tumor Angiogenesis. Cancer Research, 2010, 70, 4141-4150.	0.4	231
67	Deficient Smad7 expression: A putative molecular defect in scleroderma. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3908-3913.	3.3	229
68	Synergy and antagonism between Notch and BMP receptor signaling pathways in endothelial cells. EMBO Journal, 2004, 23, 541-551.	3.5	222
69	Transforming Growth Factor Î²1 Induces Nuclear Export of Inhibitory Smad7. Journal of Biological Chemistry, 1998, 273, 29195-29201.	1.6	218
70	Interaction with colon cancer cells hyperactivates TGF-Î² signaling in cancer-associated fibroblasts. Oncogene, 2014, 33, 97-107.	2.6	216
71	Transforming Growth Factor-Î²1 (TGF-Î²)â€"induced Apoptosis of Prostate Cancer Cells Involves Smad7-dependent Activation of p38 by TGF-Î²-activated Kinase 1 and Mitogen-activated Protein Kinase Kinase 3. Molecular Biology of the Cell, 2003, 14, 529-544.	0.9	213
72	Bone morphogenetic protein receptors. Bone, 1996, 19, 569-574.	1.4	211

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73	Signaling interplay between transforming growth factor-Î² receptor and PI3K/AKT pathways in cancer. Trends in Biochemical Sciences, 2013, 38, 612-620.	3.7	207
74	Differential Inhibition of Smad6 and Smad7 on Bone Morphogenetic Protein- and Activin-mediated Growth Arrest and Apoptosis in B Cells. Journal of Biological Chemistry, 1999, 274, 13637-13642.	1.6	201
75	TRAF4 Promotes TGF-Î² Receptor Signaling and Drives Breast Cancer Metastasis. Molecular Cell, 2013, 51, 559-572.	4.5	194
76	Osteocyte-Derived Sclerostin Inhibits Bone Formation: Its Role in Bone Morphogenetic Protein and Wnt Signaling. Journal of Bone and Joint Surgery - Series A, 2008, 90, 31-35.	1.4	193
77	Targeting BMP signalling in cardiovascular disease and anaemia. Nature Reviews Cardiology, 2016, 13, 106-120.	6.1	193
78	Elucidation of Smad Requirement in Transforming Growth Factor-Î² Type I Receptor-induced Responses. Journal of Biological Chemistry, 2003, 278, 3751-3761.	1.6	189
79	Bone Morphogenetic Protein 7 in the Development and Treatment of Bone Metastases from Breast Cancer. Cancer Research, 2007, 67, 8742-8751.	0.4	188
80	Oral administration of GW788388, an inhibitor of TGF-Î² type I and II receptor kinases, decreases renal fibrosis. Kidney International, 2008, 73, 705-715.	2.6	187
81	Targeting TGFÎ² signal transduction for cancer therapy. Signal Transduction and Targeted Therapy, 2021, 6, 8.	7.1	186
82	Follistatins neutralize activin bioactivity by inhibition of activin binding to its type II receptors. Molecular and Cellular Endocrinology, 1996, 116, 105-114.	1.6	185
83	BMP7, a Putative Regulator of Epithelial Homeostasis in the Human Prostate, Is a Potent Inhibitor of Prostate Cancer Bone Metastasis in Vivo. American Journal of Pathology, 2007, 171, 1047-1057.	1.9	183
84	Controlling cell fate by bone morphogenetic protein receptors. Molecular and Cellular Endocrinology, 2003, 211, 105-113.	1.6	182
85	Annexin A1 regulates TGF-Î² signaling and promotes metastasis formation of basal-like breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6340-6345.	3.3	182
86	Transforming growth factor Î² signal transduction in hepatic stellate cells via Smad2/3 phosphorylation, a pathway that is abrogated during in vitro progression to myofibroblasts. FEBS Letters, 2001, 502, 4-10.	1.3	179
87	The TGF-Î²/Smad pathway induces breast cancer cell invasion through the up-regulation of matrix metalloproteinase 2 and 9 in a spheroid invasion model system. Breast Cancer Research and Treatment, 2011, 128, 657-666.	1.1	179
88	Transforming Growth Factor-Î² Receptor Type I-dependent Fibrogenic Gene Program Is Mediated via Activation of Smad1 and ERK1/2 Pathways. Journal of Biological Chemistry, 2007, 282, 10405-10413.	1.6	173
89	Lack of Primary Cilia Primes Shear-Induced Endothelial-to-Mesenchymal Transition. Circulation Research, 2011, 108, 1093-1101.	2.0	173
90	Animal models of chronic liver diseases. American Journal of Physiology - Renal Physiology, 2013, 304, G449-G468.	1.6	172

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91	Functionality of Endothelial Cells and Pericytes From Human Pluripotent Stem Cells Demonstrated in Cultured Vascular Plexus and Zebrafish Xenografts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 177-186.	1.1	172
92	Transforming growth factor beta signal transduction. Journal of Leukocyte Biology, 2002, 71, 731-40.	1.5	171
93	Regulation of Smad signaling by protein kinase C. FASEB Journal, 2001, 15, 553-555.	0.2	170
94	The deubiquitinating enzyme UCH37 interacts with Smads and regulates TGF-Î² signalling. Oncogene, 2005, 24, 8080-8084.	2.6	164
95	Smad2 and Smad3 have opposing roles in breast cancer bone metastasis by differentially affecting tumor angiogenesis. Oncogene, 2010, 29, 1351-1361.	2.6	164
96	Bone morphogenetic protein signaling in bone homeostasis. Bone, 2015, 80, 43-59.	1.4	163
97	Action Range of BMP Is Defined by Its N-Terminal Basic Amino Acid Core. Current Biology, 2002, 12, 205-209.	1.8	162
98	Promoting bone morphogenetic protein signaling through negative regulation of inhibitory Smads. EMBO Journal, 2001, 20, 4132-4142.	3.5	160
99	Genetic and pharmacological targeting of activin receptor-like kinase 1 impairs tumor growth and angiogenesis. Journal of Experimental Medicine, 2010, 207, 85-100.	4.2	159
100	Transforming Growth Factor-Î² (TGF-Î²)-mediated Connective Tissue Growth Factor (CTGF) Expression in Hepatic Stellate Cells Requires Stat3 Signaling Activation. Journal of Biological Chemistry, 2013, 288, 30708-30719.	1.6	159
101	Nuclear receptor NR4A1 promotes breast cancer invasion and metastasis by activating TGF-Î² signalling. Nature Communications, 2014, 5, 3388.	5.8	156
102	Controlling mesenchymal stem cell differentiation by TGFÎ² family members. Journal of Orthopaedic Science, 2003, 8, 740-748.	0.5	155
103	Enhanced expression of type I receptors for bone morphogenetic proteins during bone formation. Journal of Bone and Mineral Research, 1995, 10, 1651-1659.	3.1	154
104	Nuclear Factor YY1 Inhibits Transforming Growth Factor Î²- and Bone Morphogenetic Protein-Induced Cell Differentiation. Molecular and Cellular Biology, 2003, 23, 4494-4510.	1.1	153
105	TGFÎ²-induced metabolic reprogramming during epithelial-to-mesenchymal transition in cancer. Cellular and Molecular Life Sciences, 2020, 77, 2103-2123.	2.4	152
106	The Bone Morphogenetic Protein Pathway Is Inactivated in the Majority of Sporadic Colorectal Cancers. Gastroenterology, 2008, 134, 1332-1341.e3.	0.6	151
107	Bone morphogenetic protein receptor signal transduction in human disease. Journal of Pathology, 2019, 247, 9-20.	2.1	151
108	Loss of SMAD4 Alters BMP Signaling to Promote Colorectal Cancer Cell Metastasis via Activation of Rho and ROCK. Gastroenterology, 2014, 147, 196-208.e13.	0.6	150

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109	TGF-β family co-receptor function and signaling. Acta Biochimica Et Biophysica Sinica, 2018, 50, 12-36.	0.9	150
110	Identification of Smad2, a Human Mad-related Protein in the Transforming Growth Factor Î² Signaling Pathway. Journal of Biological Chemistry, 1997, 272, 2896-2900.	1.6	149
111	Smad7 mediates apoptosis induced by transforming growth factor Î² in prostatic carcinoma cells. Current Biology, 2000, 10, 535-538.	1.8	149
112	Distinct Modes of Inhibition by Sclerostin on Bone Morphogenetic Protein and Wnt Signaling Pathways. Journal of Biological Chemistry, 2010, 285, 41614-41626.	1.6	149
113	VE-cadherin is a critical endothelial regulator of TGF-Î² signalling. EMBO Journal, 2008, 27, 993-1004.	3.5	146
114	TGFÎ² Signaling and Cardiovascular Diseases. International Journal of Biological Sciences, 2012, 8, 195-213.	2.6	146
115	Cartilage-Derived Morphogenetic Proteins and Osteogenic Protein-1 Differentially Regulate Osteogenesis. Journal of Bone and Mineral Research, 1998, 13, 383-392.	3.1	145
116	Efficient TGF-Î² Induction of the Smad7 Gene Requires Cooperation between AP-1, Sp1, and Smad Proteins on the Mouse Smad7 Promoter. Journal of Biological Chemistry, 2000, 275, 29023-29030.	1.6	144
117	Smad7-Induced Î²-Catenin Degradation Alters Epidermal Appendage Development. Developmental Cell, 2006, 11, 301-312.	3.1	144
118	Physical and Functional Interaction of Murine and Xenopus Smad7 with Bone Morphogenetic Protein Receptors and Transforming Growth Factor-Î² Receptors. Journal of Biological Chemistry, 1998, 273, 25364-25370.	1.6	143
119	Transforming Growth Factor Î²â€"Induced Endothelial-to-Mesenchymal Transition: A Switch to Cardiac Fibrosis?. Trends in Cardiovascular Medicine, 2008, 18, 293-298.	2.3	143
120	Localization of Smads, the TGF-Î² Family Intracellular Signaling Components During Endochondral Ossification. Journal of Bone and Mineral Research, 1999, 14, 1145-1152.	3.1	141
121	Defective paracrine signalling by TGFÎ² in yolk sac vasculature of endoglin mutant mice: a paradigm for hereditary haemorrhagic telangiectasia. Development (Cambridge), 2004, 131, 6237-6247.	1.2	141
122	ALK2 R206H mutation linked to fibrodysplasia ossificans progressiva confers constitutive activity to the BMP type I receptor and sensitizes mesenchymal cells to BMP-induced osteoblast differentiation and bone formation. Journal of Bone and Mineral Research, 2010, 25, 1208-1215.	3.1	141
123	ALK1 Opposes ALK5/Smad3 Signaling and Expression of Extracellular Matrix Components in Human Chondrocytes. Journal of Bone and Mineral Research, 2008, 23, 896-906.	3.1	138
124	Endoglin Expression on Cancer-Associated Fibroblasts Regulates Invasion and Stimulates Colorectal Cancer Metastasis. Clinical Cancer Research, 2018, 24, 6331-6344.	3.2	138
125	A Perspective on the Development of TGF-Î² Inhibitors for Cancer Treatment. Biomolecules, 2019, 9, 743.	1.8	138
126	The FYVE domain in Smad anchor for receptor activation (SARA) is sufficient for localization of SARA in early endosomes and regulates TGF-Î²/Smad signalling. Genes To Cells, 2002, 7, 321-331.	0.5	137

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127	Smad and AML Proteins Synergistically Confer Transforming Growth Factor Î²1 Responsiveness to Human Germ-line IgA Genes. Journal of Biological Chemistry, 2000, 275, 3552-3560.	1.6	136
128	TMEPAI, a Transmembrane TGF-Î²-Inducible Protein, Sequesters Smad Proteins from Active Participation in TGF-Î² Signaling. Molecular Cell, 2010, 37, 123-134.	4.5	136
129	Three-dimensional co-cultures of human endothelial cells and embryonic stem cell-derived pericytes inside a microfluidic device. Lab on A Chip, 2013, 13, 3562.	3.1	135
130	Exploring anti-TGF-Î² therapies in cancer and fibrosis. Growth Factors, 2011, 29, 140-152.	0.5	134
131	TGF-Î²-Induced Endothelial to Mesenchymal Transition in Disease and Tissue Engineering. Frontiers in Cell and Developmental Biology, 2020, 8, 260.	1.8	133
132	DPC4 (SMAD4) mediates transforming growth factor-Î²1 (TGF-Î²1) induced growth inhibition and transcriptional response in breast tumour cells. Oncogene, 1997, 14, 1891-1899.	2.6	132
133	Id1 is a critical mediator in TGF-Î²-induced transdifferentiation of rat hepatic stellate cells. Hepatology, 2006, 43, 1032-1041.	3.6	132
134	Epithelialâ€"mesenchymal-transition-inducing transcription factors: new targets for tackling chemoresistance in cancer?. Oncogene, 2018, 37, 6195-6211.	2.6	131
135	TGF-Î² Signaling in Breast Cancer Cell Invasion and Bone Metastasis. Journal of Mammary Gland Biology and Neoplasia, 2011, 16, 97-108.	1.0	127
136	On-Target Anti-TGF-Î² Therapies Are Not Succeeding in Clinical Cancer Treatments: What Are Remaining Challenges?. Frontiers in Cell and Developmental Biology, 2020, 8, 605.	1.8	127
137	Endoglin Has a Crucial Role in Blood Cellâ€"Mediated Vascular Repair. Circulation, 2006, 114, 2288-2297.	1.6	124
138	Inflammation induces endothelialâ€toâ€mesenchymal transition and promotes vascular calcification through downregulation of BMPR2. Journal of Pathology, 2019, 247, 333-346.	2.1	123
139	Activation of the TGF- Î² /Activin-Smad2 Pathway during Allergic Airway Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 60-68.	1.4	121
140	Endothelialâ€toâ€mesenchymal transition in cardiovascular diseases: Developmental signaling pathways gone awry. Developmental Dynamics, 2018, 247, 492-508.	0.8	120
141	Smad7 Is an Activin-inducible Inhibitor of Activin-induced Growth Arrest and Apoptosis in Mouse B Cells. Journal of Biological Chemistry, 1998, 273, 24293-24296.	1.6	119
142	Age-dependent alteration of TGF-Î² signalling in osteoarthritis. Cell and Tissue Research, 2012, 347, 257-265.	1.5	119
143	Bone Morphogenetic Proteins in Vascular Homeostasis and Disease. Cold Spring Harbor Perspectives in Biology, 2018, 10, a031989.	2.3	118
144	Activation of Bone Morphogenetic Protein/Smad Signaling in Bronchial Epithelial Cells during Airway Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2002, 27, 160-169.	1.4	117

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145	Diffusion of Nodal Signaling Activity in the Absence of the Feedback Inhibitor Lefty2. Developmental Cell, 2001, 1, 127-138.	3.1	116
146	Cancer associated-fibroblast-derived exosomes in cancer progression. Molecular Cancer, 2021, 20, 154.	7.9	116
147	Phosphorylation of Ser165 in TGF-beta type I receptor modulates TGF-beta1-induced cellular responses.. EMBO Journal, 1996, 15, 6231-6240.	3.5	115
148	Nonsynonymous variants in the<i>SMAD6</i>gene predispose to congenital cardiovascular malformation. Human Mutation, 2012, 33, 720-727.	1.1	114
149	Growth Differentiation Factor-9 Induces Smad2 Activation and Inhibin B Production in Cultured Human Granulosa-Luteal Cells. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 755-762.	1.8	113
150	Expression of type I and type IB receptors for activin in midgestation mouse embryos suggests distinct functions in organogenesis. Mechanisms of Development, 1995, 52, 109-123.	1.7	111
151	Constitutive phosphorylation and nuclear localization of Smad3 are correlated with increased collagen gene transcription in activated hepatic stellate cells. Journal of Cellular Physiology, 2001, 187, 117-123.	2.0	111
152	TGF-Î² and BMP7 interactions in tumour progression and bone metastasis. Clinical and Experimental Metastasis, 2007, 24, 609-617.	1.7	111
153	Autocrine Bone Morphogenetic Protein-9 Signals through Activin Receptor-like Kinase-2/Smad1/Smad4 to Promote Ovarian Cancer Cell Proliferation. Cancer Research, 2009, 69, 9254-9262.	0.4	110
154	Snail and Slug, key regulators of TGF-Î²-induced EMT, are sufficient for the induction of single-cell invasion. Biochemical and Biophysical Research Communications, 2013, 435, 58-63.	1.0	110
155	Deficiency for endoglin in tumor vasculature weakens the endothelial barrier to metastatic dissemination. Journal of Experimental Medicine, 2013, 210, 563-579.	4.2	110
156	Human mast cell migration in response to members of the transforming growth factor-Î² family. Journal of Leukocyte Biology, 2000, 67, 350-356.	1.5	108
157	BMP-9 interferes with liver regeneration and promotes liver fibrosis. Gut, 2017, 66, 939-954.	6.1	107
158	L- and S-endoglin differentially modulate TGFÎ²1 signaling mediated by ALK1 and ALK5 in L6E9 myoblasts. Journal of Cell Science, 2008, 121, 913-919.	1.2	105
159	Transforming growth factor-beta signaling and tumor angiogenesis. Frontiers in Bioscience - Landmark, 2009, 14, 4848.	3.0	105
160	Identification of a Key Residue Mediating Bone Morphogenetic Protein (BMP)-6 Resistance to Noggin Inhibition Allows for Engineered BMPs with Superior Agonist Activity. Journal of Biological Chemistry, 2010, 285, 12169-12180.	1.6	105
161	Compensatory signalling induced in the yolk sac vasculature by deletion of TGFÎ² receptors in mice. Journal of Cell Science, 2007, 120, 4269-4277.	1.2	104
162	Global Analysis of Smad2/3-Dependent TGF-Î² Signaling in Living Mice Reveals Prominent Tissue-Specific Responses to Injury. Journal of Immunology, 2005, 175, 547-554.	0.4	103

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163	Transforming Growth Factor-Î²1 Mutations in Camurati-Engelmann Disease Lead to Increased Signaling by Altering either Activation or Secretion of the Mutant Protein. Journal of Biological Chemistry, 2003, 278, 7718-7724.	1.6	102
164	Recombinant transforming growth factor type beta 3: biological activities and receptor-binding properties in isolated bone cells.. Molecular and Cellular Biology, 1990, 10, 4473-4479.	1.1	100
165	Nodal Signaling Uses Activin and Transforming Growth Factor-Î² Receptor-regulated Smads. Journal of Biological Chemistry, 2001, 276, 656-661.	1.6	100
166	Overexpression of Smad7 results in severe pathological alterations in multiple epithelial tissues. EMBO Journal, 2002, 21, 2580-2590.	3.5	100
167	Transforming growth factor-Î² signalling controls human breast cancer metastasis in a zebrafish xenograft model. Breast Cancer Research, 2013, 15, R106.	2.2	100
168	Expression of Smad proteins in human colorectal cancer. , 1999, 82, 197-202.		99
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