

# An Zwijsen

## List of Publications by Year in descending order

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77  
papers

4,674  
citations

117625

34  
h-index

102487

66  
g-index

84  
all docs

84  
docs citations

84  
times ranked

7266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Presenilin 2 deficiency causes a mild pulmonary phenotype and no changes in amyloid precursor protein processing but enhances the embryonic lethal phenotype of presenilin 1 deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11872-11877.	7.1	481
2	Endocardial cushion and myocardial defects after cardiac myocyte-specific conditional deletion of the bone morphogenetic protein receptor ALK3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2878-2883.	7.1	259
3	Epidermal differentiation does not involve the pro-apoptotic executioner caspases, but is associated with caspase-14 induction and processing. <i>Cell Death and Differentiation</i> , 2000, 7, 1218-1224.	11.2	218
4	Stalk Cell Phenotype Depends on Integration of Notch and Smad1/5 Signaling Cascades. <i>Developmental Cell</i> , 2012, 22, 501-514.	7.0	198
5	Conditional Deletion of <i>Smad1</i> and <i>Smad5</i> in Somatic Cells of Male and Female Gonads Leads to Metastatic Tumor Development in Mice. <i>Molecular and Cellular Biology</i> , 2008, 28, 248-257.	2.3	189
6	Differential contribution of the three <i>Aph1</i> genes to $\beta$ -secretase activity <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1719-1724.	7.1	173
7	The Notch intracellular domain integrates signals from Wnt, Hedgehog, TGF $\beta$ /BMP and hypoxia pathways. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 303-313.	4.1	159
8	Smad5 Is Essential for Left-Right Asymmetry in Mice. <i>Developmental Biology</i> , 2000, 219, 71-78.	2.0	138
9	BMP signaling in vascular biology and dysfunction. <i>Cytokine and Growth Factor Reviews</i> , 2016, 27, 65-79.	7.2	136
10	Alk3/Bmpr1a Receptor Is Required for Development of the Atrioventricular Canal Into Valves and Annulus Fibrosus. <i>Circulation Research</i> , 2005, 97, 219-226.	4.5	130
11	On the origin of amniotic stem cells: of mice and men. <i>International Journal of Developmental Biology</i> , 2010, 54, 761-777.	0.6	127
12	Bone Morphogenetic Proteins in Vascular Homeostasis and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a031989.	5.5	118
13	Zeb2 recruits HDAC-NuRD to inhibit Notch and controls Schwann cell differentiation and remyelination. <i>Nature Neuroscience</i> , 2016, 19, 1060-1072.	14.8	113
14	Slowed Conduction and Thin Myelination of Peripheral Nerves Associated with Mutant Rho Guanine-Nucleotide Exchange Factor 10. <i>American Journal of Human Genetics</i> , 2003, 73, 926-932.	6.2	107
15	Functional Redundancy of TGF-beta Family Type I Receptors and Receptor-Smads in Mediating Anti-Allergic Hormone-Induced Allergic Duct Regression in the Mouse. <i>Biology of Reproduction</i> , 2008, 78, 994-1001.	2.7	102
16	New intracellular components of bone morphogenetic protein/Smad signaling cascades. <i>FEBS Letters</i> , 2003, 546, 133-139.	2.8	96
17	Lineage-specific functions of TET1 in the postimplantation mouse embryo. <i>Nature Genetics</i> , 2017, 49, 1061-1072.	21.4	96
18	Few Smad proteins and many Smad-interacting proteins yield multiple functions and action modes in TGF $\beta$ /BMP signaling <i>in vivo</i> . <i>Cytokine and Growth Factor Reviews</i> , 2011, 22, 287-300.	7.2	95

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19	FGF-regulated BMP signaling is required for eyelid closure and to specify conjunctival epithelial cell fate. <i>Development (Cambridge)</i> , 2009, 136, 1741-1750.	2.5	85
20	Role of bone morphogenetic proteins in sprouting angiogenesis: differential BMP receptor-dependent signaling pathways balance stalk vs. tip cell competence. <i>FASEB Journal</i> , 2017, 31, 4720-4733.	0.5	83
21	The type I BMP receptors, <i>Bmpr1a</i> and <i>Acvr1</i> , activate multiple signaling pathways to regulate lens formation. <i>Developmental Biology</i> , 2009, 335, 305-316.	2.0	73
22	Amnion formation in the mouse embryo: the single amniochorionic fold model. <i>BMC Developmental Biology</i> , 2011, 11, 48.	2.1	72
23	Real time monitoring of BMP Smads transcriptional activity during mouse development. <i>Genesis</i> , 2008, 46, 335-346.	1.6	70
24	Robustness in angiogenesis: Notch and BMP shaping waves. <i>Trends in Genetics</i> , 2013, 29, 140-149.	6.7	70
25	<i>Smad1/5</i> is required for erythropoietin-mediated suppression of hepcidin in mice. <i>Blood</i> , 2017, 130, 73-83.	1.4	69
26	Characterization of a Rat C6 Glioma-Secreted Follistatin-Related Protein (FRP). <i>Cloning and Sequence of the Human Homologue</i> . <i>FEBS Journal</i> , 1994, 225, 937-946.	0.2	57
27	<i>Smad1</i> and its target gene <i>Wif1</i> coordinate BMP and Wnt signaling activities to regulate fetal lung development. <i>Development (Cambridge)</i> , 2011, 138, 925-935.	2.5	50
28	Transforming Growth Factor type II and Smad family signaling in stem cell function. <i>Cytokine and Growth Factor Reviews</i> , 2009, 20, 449-458.	7.2	43
29	Functions of the Type 1 BMP Receptor <i>Acvr1 (Alk2)</i> in Lens Development: Cell Proliferation, Terminal Differentiation, and Survival. , 2008, 49, 4953.		42
30	Functional and Topological Analysis of Pen-2, the Fourth Subunit of the III-Secretase Complex. <i>Journal of Biological Chemistry</i> , 2011, 286, 12271-12282.	3.4	42
31	Generation of a floxed allele of <i>Smad5</i> for cre-mediated conditional knockout in the mouse. <i>Genesis</i> , 2003, 37, 5-11.	1.6	41
32	Inactivation of <i>Smad5</i> in Endothelial Cells and Smooth Muscle Cells Demonstrates that <i>Smad5</i> Is Required for Cardiac Homeostasis. <i>American Journal of Pathology</i> , 2007, 170, 1460-1472.	3.8	38
33	Mice with a homozygous gene trap vector insertion in <i>mgcRacGAP</i> die during pre-implantation development. <i>Mechanisms of Development</i> , 2001, 102, 33-44.	1.7	37
34	A broken heart: A stretch too far. <i>International Journal of Cardiology</i> , 2008, 131, 33-44.	1.7	37
35	A novel role of BMP4 in adult hematopoietic stem and progenitor cell homing via Smad independent regulation of integrin-4 expression. <i>Blood</i> , 2013, 121, 781-790.	1.4	37
36	Thyroid follicle development requires <i>Smad1/Smad5</i> - and endothelial-dependent basement membrane assembly. <i>Development (Cambridge)</i> , 2016, 143, 1958-70.	2.5	35

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37	Astrocyte-derived Jagged-1 mitigates deleterious Notch signaling in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2018, 119, 26-40.	4.4	35
38	Smad5 is dispensable for adult murine hematopoiesis. <i>Blood</i> , 2006, 108, 3707-3712.	1.4	33
39	Impaired SMAD1/5 Mechanotransduction and Cx37 (Connexin37) Expression Enable Pathological Vessel Enlargement and Shunting. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, e87-e104.	2.4	33
40	Cadherin-dependent cell aggregation is affected by decapeptide derived from rat extracellular super-oxide dismutase. <i>FEBS Letters</i> , 1995, 363, 289-292.	2.8	32
41	Mouse embryonic stem cells with aberrant transforming growth factor $\beta$ signalling exhibit impaired differentiation in vitro and in vivo. <i>Differentiation</i> , 1998, 63, 101-113.	1.9	29
42	Antagonism of Nodal signaling by BMP/Smad5 prevents ectopic primitive streak formation in the mouse amnion. <i>Development (Cambridge)</i> , 2012, 139, 3343-3354.	2.5	29
43	BMP-SMAD Signaling Regulates Lineage Priming, but Is Dispensable for Self-Renewal in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 85-94.	4.8	27
44	PDGFR $\alpha$ <sup>+</sup> Cells in Embryonic Stem Cell Cultures Represent the In Vitro Equivalent of the Pre-implantation Primitive Endoderm Precursors. <i>Stem Cell Reports</i> , 2017, 8, 318-333.	4.8	26
45	EGFL7 Mediates BMP9-Induced Sprouting Angiogenesis of Endothelial Cells Derived from Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2019, 12, 1250-1259.	4.8	26
46	Smad5 determines murine amnion fate through the control of bone morphogenetic protein expression and signalling levels. <i>Development (Cambridge)</i> , 2006, 133, 3399-3409.	2.5	24
47	Loss of Smad5 leads to the disassembly of the apical junctional complex and increased susceptibility to experimental colitis. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, G586-G597.	3.4	24
48	Smad1/5 and Smad4 Expression Are Important for Osteoclast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1350-1360.	2.6	24
49	BMP-SMAD1/5 Signaling Regulates Retinal Vascular Development. <i>Biomolecules</i> , 2020, 10, 488.	4.0	24
50	Identification of two distinct functions for TGF- $\beta$ in early mouse development. <i>Differentiation</i> , 1998, 64, 19-31.	1.9	23
51	Ozzy, a Jag1 vestibular mouse mutant, displays characteristics of Alagille syndrome. <i>Neurobiology of Disease</i> , 2006, 24, 28-40.	4.4	23
52	Transforming growth factor $\beta$ signalling in vitro and in vivo: activin ligand-receptor interaction, Smad5 in vasculogenesis, and repression of target genes by the EGF1/ZEB-related SIP1 in the vertebrate embryo. <i>Molecular and Cellular Endocrinology</i> , 2001, 180, 13-24.	3.2	22
53	Ectopic expression of the transforming growth factor $\beta$ type II receptor disrupts mesoderm organisation during mouse gastrulation. <i>Developmental Dynamics</i> , 1999, 214, 141-151.	1.8	21
54	Expression of the inhibitory Smad7 in early mouse development and upregulation during embryonic vasculogenesis. <i>Developmental Dynamics</i> , 2000, 218, 663-670.	1.8	20

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55	Periostin as a Biomarker of the Amniotic Membrane. <i>Stem Cells International</i> , 2012, 2012, 1-10.	2.5	20
56	MAPC culture conditions support the derivation of cells with nascent hypoblast features from bone marrow and blastocysts. <i>Journal of Molecular Cell Biology</i> , 2012, 4, 423-426.	3.3	20
57	Smad1/5/8 are myogenic regulators of murine and human mesoangioblasts. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 73-87.	3.3	19
58	Amniotic ectoderm expansion occurs via distinct modes and requires SMAD5-mediated signalling. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	18
59	Expression of the follistatin/EGF-containing transmembrane protein M7365 (tomoregulin-1) during mouse development. <i>Mechanisms of Development</i> , 2000, 97, 167-171.	1.7	17
60	Endothelial Msx1 transduces hemodynamic changes into an arteriogenic remodeling response. <i>Journal of Cell Biology</i> , 2015, 210, 1239-1256.	5.2	17
61	BMP-SMAD signalling output is highly regionalized in cardiovascular and lymphatic endothelial networks. <i>BMC Developmental Biology</i> , 2016, 16, 34.	2.1	17
62	Slc25a17 Gene Trapped Mice: PMP34 Plays a Role in the Peroxisomal Degradation of Phytanic and Pristanic Acid. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 144.	3.7	17
63	Functional redundancy of extracellular matrix protein 1 in epidermal differentiation. <i>British Journal of Dermatology</i> , 2007, 157, 771-775.	1.5	16
64	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. <i>Cardiovascular Research</i> , 2022, 118, 1262-1275.	3.8	16
65	Prdm16 Supports Arterial Flow Recovery by Maintaining Endothelial Function. <i>Circulation Research</i> , 2021, 129, 63-77.	4.5	15
66	Erratum to "Periostin as a Biomarker of the Amniotic Membrane". <i>Stem Cells International</i> , 2013, 2013, 1-1.	2.5	14
67	A conserved role for non-neural ectoderm cells in early neural development. <i>Development (Cambridge)</i> , 2014, 141, 4127-4138.	2.5	14
68	Cyclic amp-induced differentiation increases the synthesis of extracellular superoxide dismutase in rat c6 glioma. <i>Free Radical Biology and Medicine</i> , 1996, 21, 481-486.	2.9	13
69	A SMAD1/5-YAP signaling module drives radial glia self-amplification and growth of the developing cerebral cortex. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	12
70	The BMP Pathway in Blood Vessel and Lymphatic Vessel Biology. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6364.	4.1	6
71	Keratin filaments mediate the expansion of extraembryonic membranes in the postgastrulation mouse embryo. <i>EMBO Journal</i> , 2022, 41, e108747.	7.8	6
72	Essential validation of gene trap mouse ES cell lines: a test case with the gene Ttrap. <i>International Journal of Developmental Biology</i> , 2009, 53, 1045-1051.	0.6	4

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73	Synaptopodin and 4 novel genes identified in primary sensory neurons. <i>Molecular and Cellular Neurosciences</i> , 2005, 30, 316-325.	2.2	3
74	Real time monitoring of BMP Smads transcriptional activity during mouse development. <i>Genesis</i> , 2008, 46, spcone-spcone.	1.6	3
75	The epicardium obscures interpretations on endothelial-to-mesenchymal transition in the mouse atrioventricular canal explant assay. <i>Scientific Reports</i> , 2018, 8, 4722.	3.3	3
76	Thyroid follicle development requires Smad1/Smad5- and endothelial-dependent basement membrane assembly. <i>Journal of Cell Science</i> , 2016, 129, e1.1-e1.1.	2.0	1
77	13-P039 Endothelial specific Smad1 and Smad5 deficiency reveals a crucial role of BMP Smads in angiogenesis and lymphangiogenesis. <i>Mechanisms of Development</i> , 2009, 126, S206.	1.7	0