Danny Huylebroeck

List of Publications by Year
in descending order

129	10,226	36303	36028
papers	citations	51 h-index	97 g-index

134	134	134	13040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Two-Handed E Box Binding Zinc Finger Protein SIP1 Downregulates E-Cadherin and Induces Invasion. Molecular Cell, 2001, 7, 1267-1278.	9.7	1,264
2	SIP1, a Novel Zinc Finger/Homeodomain Repressor, Interacts with Smad Proteins and Binds to 5â€²-CACCT Sequences in Candidate Target Genes. Journal of Biological Chemistry, 1999, 274, 20489-20498.	3.4	445
3	Loss-of-function mutations in LEMD3 result in osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis. Nature Genetics, 2004, 36, 1213-1218.	21.4	410
4	The mammalian gene function resource: the international knockout mouse consortium. Mammalian Genome, 2012, 23, 580-586.	2.2	292
5	Mice Lacking Zfhx1b, the Gene That Codes for Smad-Interacting Protein-1, Reveal a Role for Multiple Neural Crest Cell Defects in the Etiology of Hirschsprung Diseaseâ€“Mental Retardation Syndrome. American Journal of Human Genetics, 2003, 72, 465-470.	6.2	272
6	Antigenic drift between the haemagglutinin of the Hong Kong influenza strains A/Aichi/2/68 and A/Victoria/3/75. Nature, 1980, 286, 771-776.	27.8	263
7	Endocardial cushion and myocardial defects after cardiac myocyte-specific conditional deletion of the bone morphogenetic protein receptor ALK3. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2878-2883.	7.1	259
8	Heterozygous missense mutations in SMARCA2 cause Nicolaides-Baraitser syndrome. Nature Genetics, 2012, 44, 445-449.	21.4	207
9	Transcriptional repressor ZEB2 promotes terminal differentiation of CD8+ effector and memory T cell populations during infection. Journal of Experimental Medicine, 2015, 212, 2027-2039.	8.5	206
10	Stalk Cell Phenotype Depends on Integration of Notch and Smad1/5 Signaling Cascades. Developmental Cell, 2012, 22, 501-514.	7.0	198
11	Sip1 regulates sequential fate decisions by feedback signaling from postmitotic neurons to progenitors. Nature Neuroscience, 2009, 12, 1373-1380.	14.8	193
12	Conditional Deletion of Smad1 and Smad5 in Somatic Cells of Male and Female Gonads Leads to Metastatic Tumor Development in Mice. Molecular and Cellular Biology, 2008, 28, 248-257.	2.3	189
13	Follistatins neutralize activin bioactivity by inhibition of activin binding to its type II receptors. Molecular and Cellular Endocrinology, 1996, 116, 105-114.	3.2	185
14	Complete structure of A/duck/Ukraine/63 influenza hemagglutinin gene: Animal virus as progenitor of human H3 Hong Kong 1968 influenza hemagglutinin. Cell, 1981, 25, 315-323.	28.9	159
15	The Notch intracellular domain integrates signals from Wnt, Hedgehog, TGFÎ²/BMP and hypoxia pathways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 303-313.	4.1	159
16	Terminal NK cell maturation is controlled by concerted actions of T-bet and Zeb2 and is essential for melanoma rejection. Journal of Experimental Medicine, 2015, 212, 2015-2025.	8.5	151
17	Dual-Mode Modulation of Smad Signaling by Smad-Interacting Protein Sip1 Is Required for Myelination in the Central Nervous System. Neuron, 2012, 73, 713-728.	8.1	140
18	Dlx1&2-Dependent Expression of Zfhx1b (Sip1, Zeb2) Regulates the Fate Switch between Cortical and Striatal Interneurons. Neuron, 2013, 77, 83-98.	8.1	140

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19	TDP2â€“Dependent Non-Homologous End-Joining Protects against Topoisomerase IIâ€“Induced DNA Breaks and Genome Instability in Cells and In Vivo. PLoS Genetics, 2013, 9, e1003226.	3.5	139
20	Smad5 Is Essential for Leftâ€“Right Asymmetry in Mice. Developmental Biology, 2000, 219, 71-78.	2.0	138
21	Alk3/Bmpr1a Receptor Is Required for Development of the Atrioventricular Canal Into Valves and Annulus Fibrosus. Circulation Research, 2005, 97, 219-226.	4.5	130
22	Heterogeneity and clonal relationships of adaptive immune cells in ulcerative colitis revealed by single-cell analyses. Science Immunology, 2020, 5, .	11.9	127
23	Extracellular matrix protein 1 (ECM1) has angiogenic properties and is expressed by breast tumor cells. FASEB Journal, 2001, 15, 988-994.	0.5	126
24	The transcription factor Zeb2 regulates development of conventional and plasmacytoid DCs by repressing Id2. Journal of Experimental Medicine, 2016, 213, 897-911.	8.5	125
25	Zeb2 is essential for Schwann cell differentiation, myelination and nerve repair. Nature Neuroscience, 2016, 19, 1050-1059.	14.8	123
26	TTRAP, a Novel Protein That Associates with CD40, Tumor Necrosis Factor (TNF) Receptor-75 and TNF Receptor-associated Factors (TRAFs), and That Inhibits Nuclear Factor-ÎºB Activation. Journal of Biological Chemistry, 2000, 275, 18586-18593.	3.4	120
27	Zeb2 recruits HDACâ€“NuRD to inhibit Notch and controls Schwann cell differentiation and remyelination. Nature Neuroscience, 2016, 19, 1060-1072.	14.8	113
28	Directed Migration of Cortical Interneurons Depends on the Cell-Autonomous Action of Sip1. Neuron, 2013, 77, 70-82.	8.1	112
29	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
30	Slowed Conduction and Thin Myelination of Peripheral Nerves Associated with Mutant Rho Guanine-Nucleotide Exchange Factor 10. American Journal of Human Genetics, 2003, 73, 926-932.	6.2	107
31	Generation of the floxed allele of the SIP1 (Smad-interacting protein 1) gene for Cre-mediated conditional knockout in the mouse. Genesis, 2002, 32, 82-84.	1.6	96
32	New intracellular components of bone morphogenetic protein/Smad signaling cascades. FEBS Letters, 2003, 546, 133-139.	2.8	96
33	Interaction between Smad-interacting Protein-1 and the Corepressor C-terminal Binding Protein Is Dispensable for Transcriptional Repression of E-cadherin. Journal of Biological Chemistry, 2003, 278, 26135-26145.	3.4	96
34	Few Smad proteins and many Smad-interacting proteins yield multiple functions and action modes in TGFÎ²/BMP signaling in vivo. Cytokine and Growth Factor Reviews, 2011, 22, 287-300.	7.2	95
35	The EMT regulator Zeb2/Sip1 is essential for murine embryonic hematopoietic stem/progenitor cell differentiation and mobilization. Blood, 2011, 117, 5620-5630.	1.4	94
36	Smad-interacting protein-1 (Zfhx1b) acts upstream of Wnt signaling in the mouse hippocampus and controls its formation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12919-12924.	7.1	89

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37	TDP2 promotes repair of topoisomerase I-mediated DNA damage in the absence of TDP1. Nucleic Acids Research, 2012, 40, 8371-8380.	14.5	86
38	Atypical Mowat-Wilson patient confirms the importance of the novel association between ZFHX1B/SIP1 and NuRD corepressor complex. Human Molecular Genetics, 2008, 17, 1175-1183.	2.9	85
39	Foreign transmembrane peptides replacing the internal signal sequence of transferrin receptor allow its translocation and membrane binding. Cell, 1987, 48, 147-155.	28.9	84
40	Neural crest-specific removal of Zfhx1b in mouse leads to a wide range of neurocristopathies reminiscent of Mowatâ€“Wilson syndrome. Human Molecular Genetics, 2007, 16, 1423-1436.	2.9	80
41	ZEB2 drives immature T-cell lymphoblastic leukaemia development via enhanced tumour-initiating potential and IL-7 receptor signalling. Nature Communications, 2015, 6, 5794.	12.8	75
42	Bmp7 Regulates the Survival, Proliferation, and Neurogenic Properties of Neural Progenitor Cells during Corticogenesis in the Mouse. PLoS ONE, 2012, 7, e34088.	2.5	73
43	Differentiation-Dependent Alternative Splicing and Expression of the Extracellular Matrix Protein 1 Gene in Human Keratinocytes. Journal of Investigative Dermatology, 2000, 114, 718-724.	0.7	71
44	Transforming Growth Factor-Î²-activated Kinase-1 (TAK1), a MAP3K, Interacts with Smad Proteins and Interferes with Osteogenesis in Murine Mesenchymal Progenitors. Journal of Biological Chemistry, 2005, 280, 27271-27283.	3.4	70
45	Robustness in angiogenesis: Notch and BMP shaping waves. Trends in Genetics, 2013, 29, 140-149.	6.7	70
46	Complementary expression pattern ofZfhx1 genesSip1 andÎ΄EF1 in the mouse embryo and their genetic interaction revealed by compound mutants. Developmental Dynamics, 2006, 235, 1941-1952.	1.8	68
47	Onecut transcription factors act upstream of Isl1 to regulate spinal motoneuron diversification. Development (Cambridge), 2012, 139, 3109-3119.	2.5	68
48	The C-terminal domain of Mad-like signal transducers is sufficient for biological activity in the Xenopus embryo and transcriptional activation. Mechanisms of Development, 1997, 61, 127-140.	1.7	66
49	Steroid-resistant human inflammatory ILC2s are marked by CD45RO and elevated in type 2 respiratory diseases. Science Immunology, 2021, 6, .	11.9	65
50	Î΄EF1 and SIP1 are differentially expressed and have overlapping activities duringXenopusembryogenesis. Developmental Dynamics, 2006, 235, 1491-1500.	1.8	61
51	Involvement of SIP1 in positioning of somite boundaries in the mouse embryo. Developmental Dynamics, 2005, 234, 332-338.	1.8	57
52	Complete nucleotide sequence of the influenza B/Singapore/222/79 virus hemagglutinin gene and comparison with the B/Lee/40 hemagglutinin. Nucleic Acids Research, 1983, 11, 4703-4712.	14.5	55
53	XSip1 neuralizing activity involves the co-repressor CtBP and occurs through BMP dependent and independent mechanisms. Developmental Biology, 2007, 306, 34-49.	2.0	52
54	The EMT transcription factor Zeb2 controls adult murine hematopoietic differentiation by regulating cytokine signaling. Blood, 2017, 129, 460-472.	1.4	52

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55	High-level transient expression of influenza virus proteins from a series of SV40 late and early replacement vectors. Gene, 1988, 66, 163-181.	2.2	51
56	The EMT Transcription Factor ZEB2 Promotes Proliferation of Primary and Metastatic Melanoma While Suppressing an Invasive, Mesenchymal-Like Phenotype. Cancer Research, 2020, 80, 2983-2995.	0.9	51
57	Direct regulation of the Nrarp gene promoter by the Notch signaling pathway. Biochemical and Biophysical Research Communications, 2004, 322, 526-534.	2.1	50
58	The Bone Morphogenetic Protein 2 Signaling Mediator Smad1 Participates Predominantly in Osteogenic and not in Chondrogenic Differentiation in Mesenchymal Progenitors C3H10TÂ½. Journal of Bone and Mineral Research, 2000, 15, 1889-1899.	2.8	49
59	Genetic interaction between Sox10 and Zfhx1b during enteric nervous system development. Developmental Biology, 2010, 341, 416-428.	2.0	49
60	Cardiomyocytes stimulate angiogenesis after ischemic injury in a ZEB2-dependent manner. Nature Communications, 2021, 12, 84.	12.8	48
61	Complete nucleotide sequence of a human influenza neuraminidase gene of subtype N2 (A/Victoria/3/75). Journal of Molecular Biology, 1982, 161, 1-11.	4.2	47
62	XSIP1, a Xenopus zinc finger/homeodomain encoding gene highly expressed during early neural development. Mechanisms of Development, 2000, 94, 189-193.	1.7	46
63	Alzheimer-associated C allele of the promoter polymorphism -22C>T causes a critical neuron-specific decrease of presenilin 1 expression. Human Molecular Genetics, 2003, 12, 869-877.	2.9	45
64	Complete Nucleotide Sequence of the Nucleoprotein Gene from the Human Influenza Strain A/PR/8/34 (HON1). FEBS Journal, 1981, 116, 347-353.	0.2	43
65	Transforming Growth Factor type Î² and Smad family signaling in stem cell function. Cytokine and Growth Factor Reviews, 2009, 20, 449-458.	7.2	43
66	Extracellular matrix protein 1 (ECM1) has angiogenic properties and is expressed by breast tumor cells. FASEB Journal, 2001, 15, 988-994.	0.5	43
67	Generation of a floxed allele ofSmad5 for cre-mediated conditional knockout in the mouse. Genesis, 2003, 37, 5-11.	1.6	41
68	Zeb2 Regulates Cell Fate at the Exit from Epiblast State in Mouse Embryonic Stem Cells. Stem Cells, 2017, 35, 611-625.	3.2	41
69	Identification of Two Amino Acids in Activin A That Are Important for Biological Activity and Binding to the Activin Type II Receptors. Journal of Biological Chemistry, 1999, 274, 9821-9827.	3.4	40
70	Dynamic regulation of Brachyury expression in the amphibian embryo by XSIP1. Mechanisms of Development, 2002, 111, 37-46.	1.7	40
71	Inactivation of Smad5 in Endothelial Cells and Smooth Muscle Cells Demonstrates that Smad5 Is Required for Cardiac Homeostasis. American Journal of Pathology, 2007, 170, 1460-1472.	3.8	38
72	Mice with a homozygous gene trap vector insertion in mgcRacGAP die during pre-implantation development. Mechanisms of Development, 2001, 102, 33-44.	1.7	37

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73	Ttrap is an essential modulator of Smad3-dependent Nodal signaling during zebrafish gastrulation and left-right axis determination. Development (Cambridge), 2007, 134, 4381-4393.	2.5	37
74	A broken heart: A stretch too far. International Journal of Cardiology, 2008, 131, 33-44.	1.7	37
75	Expression and Processing of the Activin-A/Erythroid Differentiation Factor Precursor: A Member of the Transforming Growth Factor-Î² Superfamily. Molecular Endocrinology, 1990, 4, 1153-1165.	3.7	36
76	Organization of the mouse Zfhx1b gene encoding the two-handed zinc finger repressor Smad-interacting protein-1â˜†. Genomics, 2003, 82, 460-469.	2.9	34
77	Group 2 Innate Lymphoid Cells in Human Respiratory Disorders. Journal of Innate Immunity, 2020, 12, 47-62.	3.8	33
78	Remarkable versatility of Smad proteins in the nucleus of transforming growth factor-Î² activated cells. Cytokine and Growth Factor Reviews, 1999, 10, 187-199.	7.2	31
79	Heteromeric MAPPIT: a novel strategy to study modification-dependent protein-protein interactions in mammalian cells. Nucleic Acids Research, 2003, 31, 75e-75.	14.5	31
80	miR-200 family controls late steps of postnatal forebrain neurogenesis via Zeb2 inhibition. Scientific Reports, 2016, 6, 35729.	3.3	31
81	Smad-interacting Protein 1 Is a Repressor of Liver/Bone/Kidney Alkaline Phosphatase Transcription in Bone Morphogenetic Protein-induced Osteogenic Differentiation of C2C12 Cells. Journal of Biological Chemistry, 2001, 276, 40001-40007.	3.4	30
82	Antagonism of Nodal signaling by BMP/Smad5 prevents ectopic primitive streak formation in the mouse amnion. Development (Cambridge), 2012, 139, 3343-3354.	2.5	29
83	Aptamers and Their Potential to Selectively Target Aspects of EGF, Wnt/Î²-Catenin and TGFÎ²â€“Smad Family Signaling. International Journal of Molecular Sciences, 2013, 14, 6690-6719.	4.1	28
84	Differentiation of Mouse Enteric Nervous System Progenitor Cells Is Controlled by Endothelin 3 and Requires Regulation of Ednrb by SOX10 and ZEB2. Gastroenterology, 2017, 152, 1139-1150.e4.	1.3	28
85	BMP-SMAD Signaling Regulates Lineage Priming, but Is Dispensable for Self-Renewal in Mouse Embryonic Stem Cells. Stem Cell Reports, 2016, 6, 85-94.	4.8	27
86	p120 Catenin-Mediated Stabilization of E-Cadherin Is Essential for Primitive Endoderm Specification. PLoS Genetics, 2016, 12, e1006243.	3.5	26
87	Smad3 Is a Key Nonredundant Mediator of Transforming Growth Factor Î² Signaling in Nme Mouse Mammary Epithelial Cells. Molecular Cancer Research, 2009, 7, 1342-1353.	3.4	25
88	Alzheimer's Disease Associated Presenilin 1 Interacts with HC5 and ZETA, Subunits of the Catalytic 20S Proteasome. Neurobiology of Disease, 1999, 6, 376-391.	4.4	24
89	Smads and chromatin modulation. Cytokine and Growth Factor Reviews, 2005, 16, 495-512.	7.2	24
90	Smad5 determines murine amnion fate through the control of bone morphogenetic protein expression and signalling levels. Development (Cambridge), 2006, 133, 3399-3409.	2.5	24

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91	MicroRNAs promote skeletal muscle differentiation of mesodermal iPSC-derived progenitors. Nature Communications, 2017, 8, 1249.	12.8	24
92	Zeb2 is a negative regulator of midbrain dopaminergic axon growth and target innervation. Scientific Reports, 2017, 7, 8568.	3.3	24
93	ZEB2, the Mowat-Wilson Syndrome Transcription Factor: Confirmations, Novel Functions, and Continuing Surprises. Genes, 2021, 12, 1037.	2.4	24
94	Truncated Activin Type II Receptors Inhibit Activin Bioactivity by the Formation of Heteromeric Complexes with Activin Type I Receptors. Experimental Cell Research, 1996, 224, 323-334.	2.6	23
95	Transforming growth factor Î² signalling in vitro and in vivo: activin ligandâ€“receptor interaction, Smad5 in vasculogenesis, and repression of target genes by the Î´EF1/ZEB-related SIP1 in the vertebrate embryo. Molecular and Cellular Endocrinology, 2001, 180, 13-24.	3.2	22
96	Expression of the inhibitory Smad7 in early mouse development and upregulation during embryonic vasculogenesis. Developmental Dynamics, 2000, 218, 663-670.	1.8	20
97	ZEB2-transgene expression in the epidermis compromises the integrity of the epidermal barrier through the repression of different tight junction proteins. Cellular and Molecular Life Sciences, 2014, 71, 3599-609.	5.4	20
98	Smad1/5/8 are myogenic regulators of murine and human mesoangioblasts. Journal of Molecular Cell Biology, 2016, 8, 73-87.	3.3	19
99	The Bone-Forming Properties of Periosteum-Derived Cells Differ Between Harvest Sites. Frontiers in Cell and Developmental Biology, 2020, 8, 554984.	3.7	19
100	The transcription factor Smad-interacting protein 1 controls pain sensitivity via modulation of DRG neuron excitability. Pain, 2011, 152, 2384-2398.	4.2	18
101	Interplay between the EMT transcription factors ZEB1 and ZEB2 regulates hematopoietic stem and progenitor cell differentiation and hematopoietic lineage fidelity. PLoS Biology, 2021, 19, e3001394.	5.6	18
102	Expression of the follistatin/EGF-containing transmembrane protein M7365 (tomoregulin-1) during mouse development. Mechanisms of Development, 2000, 97, 167-171.	1.7	17
103	Exposure to Ionizing Radiation Triggers Prolonged Changes in Circular RNA Abundance in the Embryonic Mouse Brain and Primary Neurons. Cells, 2019, 8, 778.	4.1	17
104	Sesn1 is a novel gene for leftâ€“right asymmetry and mediating nodal signaling. Human Molecular Genetics, 2006, 15, 3369-3377.	2.9	16
105	Four Amino Acids within a Tandem QxVx Repeat in a Predicted Extended Î±-Helix of the Smad-Binding Domain of Sip1 Are Necessary for Binding to Activated Smad Proteins. PLoS ONE, 2013, 8, e76733.	2.5	16
106	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. Cardiovascular Research, 2022, 118, 1262-1275.	3.8	16
107	Smicl is a novel Smad interacting protein and cleavage and polyadenylation specificity factor associated protein. Genes To Cells, 2005, 10, 897-906.	1.2	15
108	The novel Smad-interacting protein Smicl regulates Chordinexpression in the Xenopus embryo. Development (Cambridge), 2005, 132, 4575-4586.	2.5	14

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109	Deletion of MgcRacGAP in the male germ cells impairs spermatogenesis and causes male sterility in the mouse. Developmental Biology, 2014, 386, 419-427.	2.0	14
110	3D genome organization during lymphocyte development and activation. Briefings in Functional Genomics, 2020, 19, 71-82.	2.7	13
111	TGFÎ²1-Induced Baf60c Regulates both Smooth Muscle Cell Commitment and Quiescence. PLoS ONE, 2012, 7, e47629.	2.5	12
112	NLS-tagging: an alternative strategy to tag nuclear proteins. Nucleic Acids Research, 2014, 42, e163-e163.	14.5	10
113	Sip1/Zeb2 regulates the generation of the inner nuclear layer retinal cell lineages in mammals. Development (Cambridge), 2016, 143, 2829-41.	2.5	10
114	Targeted chromatin conformation analysis identifies novel distal neural enhancers of ZEB2 in pluripotent stem cell differentiation. Human Molecular Genetics, 2020, 29, 2535-2550.	2.9	10
115	Active complex formation of type I and type II activin and TGFÎ² receptors in vivo as studied by overexpression in zebrafish embryos. Mechanisms of Development, 1996, 54, 225-236.	1.7	8
116	Multifaceted actions of Zeb2 in postnatal neurogenesis from the ventricular-subventricular zone to the olfactory bulb. Development (Cambridge), 2020, 147, .	2.5	8
117	Complex Smad-Dependent Transcriptional Responses in Vertebrate Development and Human Disease. Critical Reviews in Eukaryotic Gene Expression, 2002, 12, 101-118.	0.9	8
118	Comparative single-cell RNA-sequencing profiling of BMP4-treated primary glioma cultures reveals therapeutic markers. Neuro-Oncology, 2022, 24, 2133-2145.	1.2	8
119	Zeb2 Regulates Myogenic Differentiation in Pluripotent Stem Cells. International Journal of Molecular Sciences, 2020, 21, 2525.	4.1	7
120	Integrative and perturbation based analysis of the transcriptional dynamics of TGFÎ²/BMP system components in transition from embryonic stem cells to neural progenitors. Stem Cells, 2019, 38, 202-217.	3.2	6
121	Zeb2 regulates the balance between retinal interneurons and MÃ¼ller glia by inhibition of BMPâ€“Smad signaling. Developmental Biology, 2020, 468, 80-92.	2.0	5
122	Essential validation of gene trap mouse ES cell lines: a test case with the gene Ttrap. International Journal of Developmental Biology, 2009, 53, 1045-1051.	0.6	4
123	Synaptopodin and 4 novel genes identified in primary sensory neurons. Molecular and Cellular Neurosciences, 2005, 30, 316-325.	2.2	3
124	Bone morphogenetic proteins go endothelial. Blood, 2007, 109, 1794-1795.	1.4	2
125	Functional characterization of D630023F18Rik, a novel p53 target gene with a potential role in brain development and neuronal differentiation. Mechanisms of Development, 2017, 145, S121-S122.	1.7	1
126	Low Input Targeted Chromatin Capture (Low-T2C). Methods in Molecular Biology, 2021, 2351, 165-179.	0.9	1

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127	DRIFT AND SHIFT OF INFLUENZA VIRUS STUDIED AT THE GENOMIC LEVEL. , 1981, , 17-27.		0
128	Terminal NK cell maturation is controlled by concerted actions of T-bet and Zeb2 and is essential for melanoma rejection. Journal of Cell Biology, 2015, 211, 2113OIA260.	5.2	0
129	Transcriptional repressor ZEB2 promotes terminal differentiation of CD8⁺ effector and memory T cell populations during infection. Journal of Cell Biology, 2015, 211, 2113OIA259.	5.2	0