

Patrick Mehlen

List of Publications by Year in descending order

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87
papers

11,740
citations

61984

43
h-index

49909

87
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87
all docs

87
docs citations

87
times ranked

16901
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	11.2	4,036
2	Metastasis: a question of life or death. <i>Nature Reviews Cancer</i> , 2006, 6, 449-458.	28.4	1,564
3	The DCC gene product induces apoptosis by a mechanism requiring receptor proteolysis. <i>Nature</i> , 1998, 395, 801-804.	27.8	382
4	Inhibition of Neuroepithelial Patched-Induced Apoptosis by Sonic Hedgehog. <i>Science</i> , 2003, 301, 843-846.	12.6	291
5	Netrin-1 controls colorectal tumorigenesis by regulating apoptosis. <i>Nature</i> , 2004, 431, 80-84.	27.8	267
6	RGM and its receptor neogenin regulate neuronal survival. <i>Nature Cell Biology</i> , 2004, 6, 749-755.	10.3	243
7	Netrin-1-mediated axon outgrowth requires deleted in colorectal cancer-dependent MAPK activation. <i>Nature</i> , 2002, 417, 443-447.	27.8	239
8	Novel roles for Slits and netrins: axon guidance cues as anticancer targets?. <i>Nature Reviews Cancer</i> , 2011, 11, 188-197.	28.4	227
9	The RET proto-oncogene induces apoptosis: a novel mechanism for Hirschsprung disease. <i>EMBO Journal</i> , 2000, 19, 4056-4063.	7.8	208
10	Netrin-1 expression confers a selective advantage for tumor cell survival in metastatic breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4850-4855.	7.1	191
11	The netrin-1 receptors UNC5H are putative tumor suppressors controlling cell death commitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4173-4178.	7.1	178
12	Floor-plate-derived netrin-1 is dispensable for commissural axon guidance. <i>Nature</i> , 2017, 545, 350-354.	27.8	156
13	The dependence receptor UNC5H2 mediates apoptosis through DAP-kinase. <i>EMBO Journal</i> , 2005, 24, 1192-1201.	7.8	144
14	The Patched dependence receptor triggers apoptosis through a DRAL-caspase-9 complex. <i>Nature Cell Biology</i> , 2009, 11, 739-746.	10.3	128
15	Inhibition of Endothelial Cell Apoptosis by Netrin-1 during Angiogenesis. <i>Developmental Cell</i> , 2009, 16, 614-620.	7.0	125
16	Netrin-1 acts as a survival factor for aggressive neuroblastoma. <i>Journal of Experimental Medicine</i> , 2009, 206, 833-847.	8.5	118
17	Interference With Netrin-1 and Tumor Cell Death in Non-Small Cell Lung Cancer. <i>Journal of the National Cancer Institute</i> , 2009, 101, 237-247.	6.3	117
18	The Dependence Receptor UNC5H2/B Triggers Apoptosis via PP2A-Mediated Dephosphorylation of DAP Kinase. <i>Molecular Cell</i> , 2010, 40, 863-876.	9.7	111

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19	Role of the Dependence Receptor DCC in Colorectal Cancer Pathogenesis. <i>Journal of Clinical Oncology</i> , 2004, 22, 3420-3428.	1.6	110
20	Inactivation of the UNC5C Netrin-1 Receptor Is Associated With Tumor Progression in Colorectal Malignancies. <i>Gastroenterology</i> , 2007, 133, 1840-1848.	1.3	108
21	Neurotrophins and cell death. <i>Experimental Cell Research</i> , 2012, 318, 1221-1228.	2.6	102
22	Netrin-1 up-regulation in inflammatory bowel diseases is required for colorectal cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17146-17151.	7.1	101
23	Semaphorin 3E Suppresses Tumor Cell Death Triggered by the Plexin D1 Dependence Receptor in Metastatic Breast Cancers. <i>Cancer Cell</i> , 2013, 24, 673-685.	16.8	99
24	Netrin-1 mediates neuronal survival through PIKE-L interaction with the dependence receptor UNC5B. <i>Nature Cell Biology</i> , 2008, 10, 698-706.	10.3	94
25	Anaplastic Lymphoma Kinase Is a Dependence Receptor Whose Proapoptotic Functions Are Activated by Caspase Cleavage. <i>Molecular and Cellular Biology</i> , 2006, 26, 6209-6222.	2.3	92
26	DCC constrains tumour progression via its dependence receptor activity. <i>Nature</i> , 2012, 482, 534-537.	27.8	92
27	The TrkC receptor induces apoptosis when the dependence receptor notion meets the neurotrophin paradigm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13361-13366.	7.1	90
28	Proapoptotic Function of the MET Tyrosine Kinase Receptor through Caspase Cleavage. <i>Molecular and Cellular Biology</i> , 2004, 24, 10328-10339.	2.3	87
29	Netrin-1 role in angiogenesis: To be or not to be a pro-angiogenic factor?. <i>Cell Cycle</i> , 2010, 9, 1466-1471.	2.6	86
30	EphrinB3 is an anti-apoptotic ligand that inhibits the dependence receptor functions of EphA4 receptors during adult neurogenesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 231-238.	4.1	85
31	Dependence receptor TrkC is a putative colon cancer tumor suppressor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3017-3022.	7.1	85
32	Structural Decoding of the Netrin-1/UNC5 Interaction and its Therapeutical Implications in Cancers. <i>Cancer Cell</i> , 2016, 29, 173-185.	16.8	80
33	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. <i>Nature Communications</i> , 2016, 7, 13515.	12.8	74
34	Netrin-1 and its dependence receptors as original targets for cancer therapy. <i>Current Opinion in Oncology</i> , 2010, 22, 46-54.	2.4	71
35	DCC association with lipid rafts is required for netrin-1-mediated axon guidance. <i>Journal of Cell Science</i> , 2005, 118, 1687-1692.	2.0	70
36	NF- κ B Regulates Netrin-1 Expression and Affects the Conditional Tumor Suppressive Activity of the Netrin-1 Receptors. <i>Gastroenterology</i> , 2008, 135, 1248-1257.	1.3	70

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37	Netrin-1 is a survival factor during commissural neuron navigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14465-14470.	7.1	69
38	Amyloid Precursor Protein Regulates Netrin-1-mediated Commissural Axon Outgrowth. <i>Journal of Biological Chemistry</i> , 2012, 287, 30014-30023.	3.4	62
39	Cancer-Associated Fibroblasts Produce Netrin-1 to Control Cancer Cell Plasticity. <i>Cancer Research</i> , 2019, 79, 3651-3661.	0.9	62
40	Neurotrophin-3 production promotes human neuroblastoma cell survival by inhibiting TrkC-induced apoptosis. <i>Journal of Clinical Investigation</i> , 2010, 120, 850-858.	8.2	61
41	Sonic Hedgehog Promotes Tumor Cell Survival by Inhibiting CDON Pro-Apoptotic Activity. <i>PLoS Biology</i> , 2013, 11, e1001623.	5.6	53
42	Dependence Receptors and Cancer: Addiction to Trophic Ligands. <i>Cancer Research</i> , 2015, 75, 5171-5175.	0.9	49
43	Synergistic Activity of Floor-Plate- and Ventricular-Zone-Derived Netrin-1 in Spinal Cord Commissural Axon Guidance. <i>Neuron</i> , 2019, 101, 625-634.e3.	8.1	49
44	Nucleolar Localization of a Netrin-1 Isoform Enhances Tumor Cell Proliferation. <i>Science Signaling</i> , 2012, 5, ra57.	3.6	47
45	Patched dependence receptor triggers apoptosis through ubiquitination of caspase-9. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10510-10515.	7.1	45
46	The Proto-oncogene c-Kit Inhibits Tumor Growth by Behaving as a Dependence Receptor. <i>Molecular Cell</i> , 2018, 72, 413-425.e5.	9.7	44
47	Dependence receptor UNC5D mediates nerve growth factor depletion-induced neuroblastoma regression. <i>Journal of Clinical Investigation</i> , 2013, 123, 2935-2947.	8.2	43
48	The dependence receptor DCC requires lipid raft localization for cell death signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4128-4133.	7.1	41
49	Combining chemotherapeutic agents and netrin-1 interference potentiates cancer cell death. <i>EMBO Molecular Medicine</i> , 2013, 5, 1821-1834.	6.9	39
50	Niche derived netrin-1 regulates hematopoietic stem cell dormancy via its receptor neogenin-1. <i>Nature Communications</i> , 2021, 12, 608.	12.8	39
51	Netrin-4 Acts as a Pro-angiogenic Factor during Zebrafish Development. <i>Journal of Biological Chemistry</i> , 2012, 287, 3987-3999.	3.4	34
52	Netrin-1 regulates somatic cell reprogramming and pluripotency maintenance. <i>Nature Communications</i> , 2015, 6, 7398.	12.8	34
53	Non-canonical NOTCH3 signalling limits tumour angiogenesis. <i>Nature Communications</i> , 2017, 8, 16074.	12.8	34
54	Netrin-1, a missing link between chronic inflammation and tumor progression. <i>Cell Cycle</i> , 2010, 9, 1253-1262.	2.6	32

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55	Netrin-1 and its receptor DCC modulate survival and death of dopamine neurons and Parkinson's disease features. <i>EMBO Journal</i> , 2021, 40, e105537.	7.8	32
56	Specific binding of the methyl binding domain protein 2 at the BRCA1-NBR2 locus. <i>Nucleic Acids Research</i> , 2005, 33, 4243-4254.	14.5	30
57	Dependence receptors – the dark side awakens. <i>FEBS Journal</i> , 2018, 285, 3909-3924.	4.7	30
58	Variants in the Netrin-1 Receptor UNC5C Prevent Apoptosis and Increase Risk of Familial Colorectal Cancer. <i>Gastroenterology</i> , 2011, 141, 2039-2046.	1.3	28
59	Netrin-1 Expression Is an Independent Prognostic Factor for Poor Patient Survival in Brain Metastases. <i>PLoS ONE</i> , 2014, 9, e92311.	2.5	28
60	Dependence receptors and colorectal cancer. <i>Gut</i> , 2014, 63, 1821-1829.	12.1	28
61	Regulation by miR181 Family of the Dependence Receptor CDON Tumor Suppressive Activity in Neuroblastoma. <i>Journal of the National Cancer Institute</i> , 2014, 106, .	6.3	27
62	The Ectodysplasin receptor EDAR acts as a tumor suppressor in melanoma by conditionally inducing cell death. <i>Cell Death and Differentiation</i> , 2019, 26, 443-454.	11.2	25
63	Netrin-1 promotes naive pluripotency through Neo1 and Unc5b co-regulation of Wnt and MAPK signalling. <i>Nature Cell Biology</i> , 2020, 22, 389-400.	10.3	24
64	Ultrasound molecular imaging as a non-invasive companion diagnostic for netrin-1 interference therapy in breast cancer. <i>Theranostics</i> , 2018, 8, 5126-5142.	10.0	23
65	The Dependence Receptor TrkC Triggers Mitochondria-Dependent Apoptosis upon Cobra-1 Recruitment. <i>Molecular Cell</i> , 2013, 51, 632-646.	9.7	22
66	Inhibition of DNA methylation promotes breast tumor sensitivity to netrin-1 interference. <i>EMBO Molecular Medicine</i> , 2016, 8, 863-877.	6.9	21
67	Lipid raft localization and palmitoylation: Identification of two requirements for cell death induction by the tumor suppressors UNC5H. <i>Experimental Cell Research</i> , 2008, 314, 2544-2552.	2.6	19
68	Dependence Receptors: The Trophic Theory Revisited. <i>Science Signaling</i> , 2010, 3, pe47.	3.6	19
69	Dynamics of MBD2 deposition across methylated DNA regions during malignant transformation of human mammary epithelial cells. <i>Nucleic Acids Research</i> , 2015, 43, 5838-5854.	14.5	19
70	Targeting netrin-1/DCC interaction in diffuse large B-cell and mantle cell lymphomas. <i>EMBO Molecular Medicine</i> , 2016, 8, 96-104.	6.9	19
71	Sonic Hedgehog promotes the survival of neural crest cells by limiting apoptosis induced by the dependence receptor CDON during branchial arch development. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 655-660.	2.1	18
72	Epidermal Growth Factor Receptor-Dependent Mutual Amplification between Netrin-1 and the Hepatitis C Virus. <i>PLoS Biology</i> , 2016, 14, e1002421.	5.6	18

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73	Netrin-1 and Its Receptor DCC Are Causally Implicated in Melanoma Progression. <i>Cancer Research</i> , 2020, 80, 747-756.	0.9	18
74	Blocking SHH/Patched Interaction Triggers Tumor Growth Inhibition through Patched-Induced Apoptosis. <i>Cancer Research</i> , 2020, 80, 1970-1980.	0.9	17
75	Dependence receptors: new targets for cancer therapy. <i>EMBO Molecular Medicine</i> , 2021, 13, e14495.	6.9	17
76	Targeting netrin-1 in small cell lung cancer and neuroblastoma. <i>EMBO Molecular Medicine</i> , 2021, 13, e12878.	6.9	16
77	Netrin-1 Protects Hepatocytes Against Cell Death Through Sustained Translation During the Unfolded Protein Response. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 281-301.e9.	4.5	15
78	Hey1- and p53-dependent TrkC proapoptotic activity controls neuroblastoma growth. <i>PLoS Biology</i> , 2018, 16, e2002912.	5.6	14
79	RET signalling provides tumorigenic mechanism and tissue specificity for AIP-related somatotrophinomas. <i>Oncogene</i> , 2021, 40, 6354-6368.	5.9	11
80	Î ⁴⁰ p53 isoform up-regulates netrin-1/UNC5B expression and potentiates netrin-1 pro-oncogenic activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2103319118.	7.1	10
81	Hepatic inflammation elicits production of proinflammatory netrin-1 through exclusive activation of translation. <i>Hepatology</i> , 2022, 76, 1345-1359.	7.3	10
82	Molecular characterization of Netrin-1 and APP receptor binding: New leads to block the progression of senile plaques in Alzheimer's disease. <i>Biochemical and Biophysical Research Communications</i> , 2017, 488, 466-470.	2.1	9
83	Hepatocellular carcinoma-associated depletion of the netrin-1 receptor Uncoordinated Phenotype-5A (UNC5A) skews the hepatic unfolded protein response towards prosurvival outcomes. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 2425-2431.	2.1	5
84	The dependence receptor TrkC regulates the number of sensory neurons during DRG development. <i>Developmental Biology</i> , 2018, 442, 249-261.	2.0	3
85	Stromal-associated cytokines bias the interplay between gene expression and DNA methylation in human breast cancers. <i>Epigenetics</i> , 2020, 15, 511-523.	2.7	3
86	Netrin-4 regulates stiffness and metastasis. <i>Nature Materials</i> , 2021, 20, 722-723.	27.5	2
87	Keeping Cell Death Alive: An Introduction into the French Cell Death Research Network. <i>Biomolecules</i> , 2022, 12, 901.	4.0	2