Denis Corbeil

List of Publications by Year
in descending order

126 papers	10,036 citations	41323 49 h-index	36008 97 g-index
127 all docs	127 docs citations	127 times ranked	10358 citing authors

#	Article	IF	Citations
1	OSVZ progenitors of human and ferret neocortex are epithelial-like and expand by integrin signaling. Nature Neuroscience, 2010, 13, 690-699.	7.1	699
2	Prominin, a novel microvilli-specific polytopic membrane protein of the apical surface of epithelial cells, is targeted to plasmalemmal protrusions of non-epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12425-12430.	3.3	555
3	Retention of prominin in microvilli reveals distinct cholesterol-based lipid micro-domains in the apical plasma membrane. Nature Cell Biology, 2000, 2, 582-592.	4.6	530
4	Isolation of neural stem cells from the postnatal cerebellum. Nature Neuroscience, 2005, 8, 723-729.	7.1	435
5	Release of extracellular membrane particles carrying the stem cell marker prominin-1 (CD133) from neural progenitors and other epithelial cells. Journal of Cell Science, 2005, 118, 2849-2858.	1.2	415
6	The Human AC133 Hematopoietic Stem Cell Antigen Is also Expressed in Epithelial Cells and Targeted to Plasma Membrane Protrusions. Journal of Biological Chemistry, 2000, 275, 5512-5520.	1.6	387
7	Asymmetric distribution of the apical plasma membrane during neurogenic divisions of mammalian neuroepithelial cells. EMBO Journal, 2004, 23, 2314-2324.	3.5	387
8	Prominin: A Story of Cholesterol, Plasma Membrane Protrusions and Human Pathology. Traffic, 2001, 2, 82-91.	1.3	274
9	Midbody and primary cilium of neural progenitors release extracellular membrane particles enriched in the stem cell marker prominin-1. Journal of Cell Biology, 2007, 176, 483-495.	2.3	262
10	Prominin-1/CD133, a neural and hematopoietic stem cell marker, is expressed in adult human differentiated cells and certain types of kidney cancer. Cell and Tissue Research, 2005, 319, 15-26.	1.5	253
11	CD133 as a biomarker for putative cancer stem cells in solid tumours: limitations, problems and challenges. Journal of Pathology, 2013, 229, 355-378.	2.1	252
12	A frameshift mutation in prominin (mouse)-like 1 causes human retinal degeneration. Human Molecular Genetics, 2000, 9, 27-34.	1.4	247
13	Mutant prominin 1 found in patients with macular degeneration disrupts photoreceptor disk morphogenesis in mice. Journal of Clinical Investigation, 2008, 118, 2908-16.	3.9	194
14	Hematopoietic stem cells in co-culture with mesenchymal stromal cells - modeling the niche compartments in vitro. Haematologica, 2010, 95, 542-550.	1.7	190
15	Distribution of CD133 reveals glioma stem cells self-renew through symmetric and asymmetric cell divisions. Cell Death and Disease, 2011, 2, e200-e200.	2.7	166
16	Loss of the Cholesterol-Binding Protein Prominin-1/CD133 Causes Disk Dysmorphogenesis and Photoreceptor Degeneration. Journal of Neuroscience, 2009, 29, 2297-2308.	1.7	164
17	Segregation of lipid raft markers including CD133 in polarized human hematopoietic stem and progenitor cells. Blood, 2004, 104, 2332-2338.	0.6	161
18	Proliferating versus differentiating stem and cancer cells exhibit distinct midbody-release behaviour. Nature Communications, 2011, 2, 503.	5.8	139

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19	GM1and GM3gangliosides highlight distinct lipid microdomains within the apical domain of epithelial cells. FEBS Letters, 2007, 581, 1783-1787.	1.3	133
20	Existence of distinct tyrosylprotein sulfotransferase genes: Molecular characterization of tyrosylprotein sulfotransferase-2. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11134-11139.	3.3	127
21	New Insights into the Cell Biology of Hematopoietic Progenitors by Studying Prominin-1 (CD133). Cells Tissues Organs, 2008, 188, 127-138.	1.3	126
22	The Stem Cell Marker CD133 (Prominin-1) Is Expressed in Various Human Glandular Epithelia. Journal of Histochemistry and Cytochemistry, 2008, 56, 977-993.	1.3	124
23	Somatic Stem Cell Marker Prominin-1/CD133 Is Expressed in Embryonic Stem Cell-Derived Progenitors. Stem Cells, 2005, 23, 791-804.	1.4	122
24	Identification of novel Prominin-1/CD133 splice variants with alternative C-termini and their expression in epididymis and testis. Journal of Cell Science, 2004, 117, 4301-4311.	1.2	116
25	Characterization of Prominin-2, a New Member of the Prominin Family of Pentaspan Membrane Glycoproteins. Journal of Biological Chemistry, 2003, 278, 8586-8596.	1.6	106
26	Haematopoietic stem cell differentiation promotes the release of prominiâ€1/CD133â€containing membrane vesiclesâ€"a role of the endocyticâ€"exocytic pathway. EMBO Molecular Medicine, 2011, 3, 398-409.	3.3	102
27	Nomenclature of prominin-1 (CD133) splice variants ? an update. Tissue Antigens, 2007, 69, 602-606.	1.0	98
28	Increased Integration of Transplanted CD73-Positive Photoreceptor Precursors into Adult Mouse Retina. , 2011, 52, 6462.		96
29	AC133 Antigen, CD133, Prominin-1, Prominin-2, Etc.: Prominin Family Gene Products in Need of a Rational Nomenclature. Stem Cells, 2003, 21, 506-508.	1.4	93
30	The intriguing links between prominiâ€1 (CD133), cholesterolâ€based membrane microdomains, remodeling of apical plasma membrane protrusions, extracellular membrane particles, and (neuro)epithelial cell differentiation. FEBS Letters, 2010, 584, 1659-1664.	1.3	91
31	The Cell Surface Proteome of Human Mesenchymal Stromal Cells. PLoS ONE, 2011, 6, e20399.	1.1	90
32	The Stem Cell Marker Prominin-1/CD133 on Membrane Particles in Human Cerebrospinal Fluid Offers Novel Approaches for Studying Central Nervous System Disease. Stem Cells, 2008, 26, 698-705.	1.4	87
33	Characterization of Dental Pulp Stem Cells from Impacted Third Molars Cultured in Low Serum-Containing Medium. Cells Tissues Organs, 2011, 193, 344-365.	1.3	87
34	Mixed phenotype hepatocellular carcinoma after transarterial chemoembolization and liver transplantation. Liver Transplantation, 2011, 17, 943-954.	1.3	84
35	Rat Prominin, Like Its Mouse and Human Orthologues, Is a Pentaspan Membrane Glycoprotein. Biochemical and Biophysical Research Communications, 2001, 285, 939-944.	1.0	83
36	Stem Cell Marker Prominin-1/AC133 Is Expressed in Duct Cells of the Adult Human Pancreas. Pancreas, 2008, 36, e1-e6.	0.5	79

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37	AC133 Hematopoietic Stem Cell Antigen: Human Homologue of Mouse Kidney Prominin or Distinct Member of a Novel Protein Family?. Blood, 1998, 91, 2625-2626.	0.6	77
38	Focus on Molecules: Prominin-1 (CD133). Experimental Eye Research, 2007, 85, 585-586.	1.2	72
39	Stem Cellâ€"Derived Photoreceptor Transplants Differentially Integrate Into Mouse Models of Cone-Rod Dystrophy. , 2016, 57, 3509.		71
40	Prominin-2 is a cholesterol-binding protein associated with apical and basolateral plasmalemmal protrusions in polarized epithelial cells and released into urine. Cell and Tissue Research, 2007, 328, 31-47.	1.5	70
41	Polarization of Human Hematopoietic Progenitors During Contact with Multipotent Mesenchymal Stromal Cells: Effects on Proliferation and Clonogenicity. Stem Cells and Development, 2006, 15, 815-829.	1.1	66
42	Human mesenchymal stem cell proliferation and osteogenic differentiation during long-term ex vivo cultivation is not age dependent. Journal of Bone and Mineral Metabolism, 2011, 29, 224-235.	1.3	65
43	Cancer/testis antigens can be immunological targets in clonogenic CD133+ melanoma cells. Cancer Immunology, Immunotherapy, 2009, 58, 1635-1646.	2.0	63
44	Prominin-1 Allows Prospective Isolation of Neural Stem Cells from the Adult Murine Hippocampus. Journal of Neuroscience, 2013, 33, 3010-3024.	1.7	63
45	Prominin-1 (CD133): from progenitor cells to human diseases. Future Lipidology, 2006, 1, 213-225.	0.5	62
46	Outer Segment Formation of Transplanted Photoreceptor Precursor Cells. PLoS ONE, 2012, 7, e46305.	1.1	62
47	Extracellular Vesicles Secreted by Bone Marrow- and Adipose Tissue-Derived Mesenchymal Stromal Cells Fail to Suppress Lymphocyte Proliferation. Stem Cells and Development, 2015, 24, 1374-1376.	1.1	60
48	VAMP-associated protein-A and oxysterol-binding proteinâ€"related protein 3 promote the entry of late endosomes into the nucleoplasmic reticulum. Journal of Biological Chemistry, 2018, 293, 13834-13848.	1.6	55
49	Release of extracellular membrane vesicles from microvilli of epithelial cells is enhanced by depleting membrane cholesterol. FEBS Letters, 2009, 583, 897-902.	1.3	54
50	Expression of distinct splice variants of the stem cell marker prominin€1 (CD133) in glial cells. Glia, 2009, 57, 860-874.	2.5	52
51	Pellet culture elicits superior chondrogenic redifferentiation than alginateâ€based systems. Biotechnology Progress, 2009, 25, 1146-1152.	1.3	51
52	Polarization and Migration of Hematopoietic Stem and Progenitor Cells Rely on the RhoA/ROCK I Pathway and an Active Reorganization of the Microtubule Network. Journal of Biological Chemistry, 2010, 285, 31661-31671.	1.6	51
53	Age-dependent regulation of chromaffin cell proliferation by growth factors, dehydroepiandrosterone (DHEA), and DHEA sulfate. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2007-2012.	3.3	49
54	Wnt interaction and extracellular release of prominin-1/CD133 in human malignant melanoma cells. Experimental Cell Research, 2013, 319, 810-819.	1.2	48

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55	Nuclear transport of cancer extracellular vesicle-derived biomaterials through nuclear envelope invagination-associated late endosomes. Oncotarget, 2017, 8, 14443-14461.	0.8	48
56	Prominin‚Ä1 controls stem cell activation by orchestrating ciliary dynamics. EMBO Journal, 2019, 38, .	3.5	47
57	Biogenesis of Neurosecretory Vesicles. Cold Spring Harbor Symposia on Quantitative Biology, 1995, 60, 315-327.	2.0	45
58	Tetraspanin CD9 determines invasiveness and tumorigenicity of human breast cancer cells. Oncotarget, 2015, 6, 7970-7991.	0.8	45
59	Prominin‚Ä1 (CD133) is not restricted to stem cells located in the basal compartment of murine and human prostate. Prostate, 2011, 71, 254-267.	1.2	44
60	CD133 is a modifier of hematopoietic progenitor frequencies but is dispensable for the maintenance of mouse hematopoietic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5582-5587.	3.3	43
61	Prominin-1 (CD133): Molecular and Cellular Features Across Species. Advances in Experimental Medicine and Biology, 2013, 777, 3-24.	0.8	39
62	Comparative analysis of proliferative potential and clonogenicity of MACS-immunomagnetic isolated CD34+ and CD133+ blood stem cells derived from a single donor. Cell Proliferation, 2006, 39, 325-332.	2.4	38
63	Spontaneous In Vitro Transformation of Adult Neural Precursors into Stemâ€Like Cancer Cells. Brain Pathology, 2009, 19, 399-408.	2.1	38
64	Uptake and Fate of Extracellular Membrane Vesicles: Nucleoplasmic Reticulum-Associated Late Endosomes as a New Gate to Intercellular Communication. Cells, 2020, 9, 1931.	1.8	38
65	Rapid reconstitution of dendritic cells after allogeneic transplantation of CD133+ selected hematopoietic stem cells. Leukemia, 2005, 19, 161-165.	3.3	36
66	Tunneling nanotubes mediate the transfer of stem cell marker CD133 between hematopoietic progenitor cells. Experimental Hematology, 2016, 44, 1092-1112.e2.	0.2	36
67	ALCAM contributes to brain metastasis formation in non-small-cell lung cancer through interaction with the vascular endothelium. Neuro-Oncology, 2020, 22, 955-966.	0.6	36
68	Selective Delivery of Secretory Cargo in Golgi-Derived Carriers of Nonepithelial Cells. Traffic, 2002, 3, 279-288.	1.3	35
69	Molecular cloning of the Î±-subunit of rat endopeptidase-24.18 (endopeptidase-2) and co-localization with endopeptidase-24.11 in rat kidney by in situ hybridization. FEBS Letters, 1992, 309, 203-208.	1.3	33
70	Differential expression of Prominin-1 (CD133) and Prominin-2 in major cephalic exocrine glands of adult mice. Histochemistry and Cell Biology, 2007, 128, 409-419.	0.8	32
71	Prominin‚Ä1 (CD133) modulates the architecture and dynamics of microvilli. Traffic, 2019, 20, 39-60.	1.3	32
72	Transit amplifying cells coordinate mouse incisor mesenchymal stem cell activation. Nature Communications, 2019, 10, 3596.	5.8	31

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73	Expression and polarized apical secretion in Madin-Darby canine kidney cells of a recombinant soluble form of neutral endopeptidase lacking the cytosolic and transmembrane domains. Journal of Biological Chemistry, 1992, 267, 2798-801.	1.6	31
74	CD9, a tetraspanin target for cancer therapy?. Experimental Biology and Medicine, 2021, 246, 1121-1138.	1.1	30
75	Increased membrane shedding â€“ indicated by an elevation of CD133-enriched membrane particles â€“ into the CSF in partial epilepsy. Epilepsy Research, 2012, 99, 101-106.	0.8	28
76	Rat endopeptidase-24.18 Î± subunit is secreted into the culture medium as a zymogen when expressed by COS-1 cells. FEBS Letters, 1993, 335, 361-366.	1.3	27
77	Progenitor cells from cartilageâ€”No osteoarthritisâ€gradeâ€specific differences in stem cell marker expression. Biotechnology Progress, 2013, 29, 206-212.	1.3	27
78	Human Prominin-1 (CD133) Is Detected in Both Neoplastic and Non-Neoplastic Salivary Gland Diseases and Released into Saliva in a Ubiquitinated Form. PLoS ONE, 2014, 9, e98927.	1.1	27
79	CD133 might be a pan marker of epithelial cells with dedifferentiation capacity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1451-2.	3.3	26
80	Prominin-2 is a novel marker of distal tubules and collecting ducts of the human and murine kidney. Histochemistry and Cell Biology, 2010, 133, 527-539.	0.8	25
81	CD133 and membrane microdomains: Old facets for future hypotheses. World Journal of Gastroenterology, 2011, 17, 4149.	1.4	25
82	Differential expression of biofunctional GM1 and GM3 gangliosides within the plastic-adherent multipotent mesenchymal stromal cell population. Cytotherapy, 2010, 12, 131-142.	0.3	23
83	Cell Surface Proteome of Dental Pulp Stem Cells Identified by Label-Free Mass Spectrometry. PLoS ONE, 2016, 11, e0159824.	1.1	23
84	The stem cell marker CD133 meets the endosomal compartment â€“ New insights into the cell division of hematopoietic stem cells. Blood Cells, Molecules, and Diseases, 2008, 41, 194-195.	0.6	22
85	Letter to the Editor<scp>:</scp> An Intriguing Relationship Between Lipid Droplets, Cholesterol-Binding Protein CD133 and Wnt/β-Catenin Signaling Pathway in Carcinogenesis. Stem Cells, 2015, 33, 1366-1370.	1.4	22
86	Antiâ€human <scp>CD</scp>9 antibody Fab fragment impairs the internalization of extracellular vesicles and the nuclear transfer of their cargo proteins. Journal of Cellular and Molecular Medicine, 2019, 23, 4408-4421.	1.6	22
87	Robust expression of Prominin-2 all along the adult male reproductive system and urinary bladder. Histochemistry and Cell Biology, 2008, 130, 749-759.	0.8	21
88	Distinct and Conserved Prominin-1/CD133â€“Positive Retinal Cell Populations Identified across Species. PLoS ONE, 2011, 6, e17590.	1.1	21
89	SOX2-silenced squamous cell carcinoma: a highly malignant form of esophageal cancer with SOX2 promoter hypermethylation. Modern Pathology, 2018, 31, 83-92.	2.9	20
90	Immunohistochemicalin situ characterization of orthopedic implants on polymethyl metacrylate embedded cutting and grinding sections. Journal of Biomedical Materials Research - Part A, 2007, 83A, 313-322.	2.1	19

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91	Sox9 expression of alginateâ€encapsulated chondrocytes is stimulated by low cell density. Journal of Biomedical Materials Research - Part A, 2009, 91A, 910-918.	2.1	18
92	Spatial Distribution of Prominin-1 (CD133) â€“ Positive Cells within Germinative Zones of the Vertebrate Brain. PLoS ONE, 2013, 8, e63457.	1.1	18
93	AC133 Hematopoietic Stem Cell Antigen: Human Homologue of Mouse Kidney Prominin or Distinct Member of a Novel Protein Family?. Blood, 1998, 91, 2625-2626.	0.6	18
94	Prominins control ciliary length throughout the animal kingdom: New lessons from human prominin-1 and zebrafish prominin-3. Journal of Biological Chemistry, 2020, 295, 6007-6022.	1.6	17
95	Prominin-1: A Distinct Cholesterol-Binding Membrane Protein and the Organisation of the Apical Plasma Membrane of Epithelial Cells. Sub-Cellular Biochemistry, 2010, 51, 399-423.	1.0	16
96	The hematopoietic stem cell polarization and migration. Communicative and Integrative Biology, 2011, 4, 201-204.	0.6	16
97	Prominin-1/CD133: Lipid Raft Association, Detergent Resistance, and Immunodetection. Stem Cells Translational Medicine, 2018, 7, 155-160.	1.6	16
98	Prominent Role of Prominin in the Retina. Advances in Experimental Medicine and Biology, 2013, 777, 55-71.	0.8	16
99	Phenotypic, Morphological and Adhesive Differences of Human Hematopoietic Progenitor Cells Cultured on Murine versus Human Mesenchymal Stromal Cells. Scientific Reports, 2015, 5, 15680.	1.6	14
100	Monoclonal Antibodies 13A4 and AC133 Do Not Recognize the Canine Ortholog of Mouse and Human Stem Cell Antigen Prominin-1 (CD133). PLoS ONE, 2016, 11, e0164079.	1.1	14
101	Itraconazole inhibits nuclear delivery of extracellular vesicle cargo by disrupting the entry of late endosomes into the nucleoplasmic reticulum. Journal of Extracellular Vesicles, 2021, 10, e12132.	5.5	11
102	Commentary: â€œProm1 Function in Development, Intestinal Inflammation, and Intestinal Tumorigenesisâ€. Frontiers in Oncology, 2015, 5, 91.	1.3	10
103	Early ciliary and prominin-1 dysfunctions precede neurogenesis impairment in a mouse model of type 2 diabetes. Neurobiology of Disease, 2017, 108, 13-28.	2.1	10
104	CD133-Positive Membrane Particles in Cerebrospinal Fluid of Patients with Inflammatory and Degenerative Neurological Diseases. Frontiers in Cellular Neuroscience, 2017, 11, 77.	1.8	10
105	Immunohistochemical Localization and Characterization of Putative Mesenchymal Stem Cell Markers in the Retinal Capillary Network of Rodents. Cells Tissues Organs, 2013, 197, 344-359.	1.3	9
106	Tyrosine Oâ€sulfation. Current Protocols in Protein Science, 2005, 39, Unit 14.7.	2.8	7
107	CD133 expression in well-differentiated pancreatic neuroendocrine tumors: a potential predictor of progressive clinical courses. Human Pathology, 2017, 61, 148-157.	1.1	7
108	Decoding Single Cell Morphology in Osteotropic Breast Cancer Cells for Dissecting Their Migratory, Molecular and Biophysical Heterogeneity. Cancers, 2022, 14, 603.	1.7	5

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109	Transmission of Information in Neoplasia by Extracellular Vesicles. BioMed Research International, 2015, 2015, 1-2.	0.9	4
110	Comprehensive Overview of CD133 Biology in Neural Tissues across Species. , 2015, , 113-129.		3
111	Exosomes, microvesicles, and their friends in solid tumors. , 2020, , 39-80.		3
112	Commentary: Could We Address the Interplay Between CD133, Wnt/Î²-Catenin, and TERT Signaling Pathways as a Potential Target for Glioblastoma Therapy?. Frontiers in Oncology, 2021, 11, 712358.	1.3	3
113	Targeting of neutral endopeptidase 24.11 in polarized cells. Biochemical Society Transactions, 1993, 21, 668-672.	1.6	2
114	Prominin-1/CD133, saliva and salivary glands â€“ Integrating existing data to new clinical approaches. Experimental Cell Research, 2019, 383, 111566.	1.2	2
115	Deciphering the roles of prominins in the visual system. Journal of Biological Chemistry, 2019, 294, 17166.	1.6	2
116	Variation of membrane particleâ€“bound CD133 in cerebrospinal fluid of patients with subarachnoid and intracerebral hemorrhage. Journal of Neurosurgery, 2020, , 1-8.	0.9	2
117	Assessment of CD133-positive extracellular membrane vesicles in pancreatic cancer ascites and beyond. Medical Molecular Morphology, 2020, 53, 60-62.	0.4	1
118	Tyrosine Sulfation. , 2004, , 294-297.		1
119	Mutant prominin 1 found in patients with macular degeneration disrupts photoreceptor disk morphogenesis in mice. Journal of Clinical Investigation, 2009, 119, 1396-1396.	3.9	1
120	Migration of Stem Cells: Role of the RhoA/ROCK I Pathway (Method). , 2012, , 319-331.		0
121	CD133 is a modifier of hematopoietic progenitor frequencies but is dispensable for the maintenance of mouse hematopoietic stem cells. Experimental Hematology, 2013, 41, S32.	0.2	0
122	Comments on the "Prognostic Impact and Clinicopathological Correlation of CD133 and ALDH1 Expression in Invasive Breast Cancer" and the "Commentary by Antonio Ieni and Giovanni Tuccari". Journal of Breast Cancer, 2016, 19, 336.	0.8	0
123	Author Response: Possibility of Cytoplasmic Transportation Between Donorâ€“Host Cell Following Photoreceptor Transplantation. , 2016, 57, 5336.		0
124	Observation-driven inquiry: Raman spectroscopic imaging illuminates cancer lipid metabolism. Stem Cell Investigation, 2017, 4, 42-42.	1.3	0
125	Protein Modifications | Protein Tyrosine Sulfation. , 2021, , 192-205.		0
126	Cellular and Molecular Events Underlying the Interaction of Hematopoietic Stem and Progenitor Cells with Mesenchymal Stem Cells.. Blood, 2005, 106, 2309-2309.	0.6	0