

# Denis Corbeil

## List of Publications by Citations

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120  
papers

8,503  
citations

48  
h-index

91  
g-index

127  
ext. papers

9,316  
ext. citations

5.9  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
120	OSVZ progenitors of human and ferret neocortex are epithelial-like and expand by integrin signaling. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 690-9	25.5	557
119	Retention of prominin in microvilli reveals distinct cholesterol-based lipid micro-domains in the apical plasma membrane. <i>Nature Cell Biology</i> , <b>2000</b> , 2, 582-92	23.4	491
118	Prominin, a novel microvilli-specific polytopic membrane protein of the apical surface of epithelial cells, is targeted to plasmalemmal protrusions of non-epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 12425-30	11.5	490
117	Isolation of neural stem cells from the postnatal cerebellum. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 723-9	25.5	400
116	Release of extracellular membrane particles carrying the stem cell marker prominin-1 (CD133) from neural progenitors and other epithelial cells. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 2849-58	5.3	350
115	Asymmetric distribution of the apical plasma membrane during neurogenic divisions of mammalian neuroepithelial cells. <i>EMBO Journal</i> , <b>2004</b> , 23, 2314-24	13	346
114	The human AC133 hematopoietic stem cell antigen is also expressed in epithelial cells and targeted to plasma membrane protrusions. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 5512-20	5.4	338
113	Prominin: a story of cholesterol, plasma membrane protrusions and human pathology. <i>Traffic</i> , <b>2001</b> , 2, 82-91	5.7	239
112	Prominin-1/CD133, a neural and hematopoietic stem cell marker, is expressed in adult human differentiated cells and certain types of kidney cancer. <i>Cell and Tissue Research</i> , <b>2005</b> , 319, 15-26	4.2	226
111	Midbody and primary cilium of neural progenitors release extracellular membrane particles enriched in the stem cell marker prominin-1. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 483-95	7.3	219
110	CD133 as a biomarker for putative cancer stem cells in solid tumours: limitations, problems and challenges. <i>Journal of Pathology</i> , <b>2013</b> , 229, 355-78	9.4	211
109	A frameshift mutation in prominin (mouse)-like 1 causes human retinal degeneration. <i>Human Molecular Genetics</i> , <b>2000</b> , 9, 27-34	5.6	207
108	Hematopoietic stem cells in co-culture with mesenchymal stromal cells--modeling the niche compartments in vitro. <i>Haematologica</i> , <b>2010</b> , 95, 542-50	6.6	154
107	Mutant prominin 1 found in patients with macular degeneration disrupts photoreceptor disk morphogenesis in mice. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 2908-16	15.9	154
106	Segregation of lipid raft markers including CD133 in polarized human hematopoietic stem and progenitor cells. <i>Blood</i> , <b>2004</b> , 104, 2332-8	2.2	145
105	Distribution of CD133 reveals glioma stem cells self-renew through symmetric and asymmetric cell divisions. <i>Cell Death and Disease</i> , <b>2011</b> , 2, e200	9.8	137
104	Loss of the cholesterol-binding protein prominin-1/CD133 causes disk dysmorphogenesis and photoreceptor degeneration. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 2297-308	6.6	132

103	GM1 and GM3 gangliosides highlight distinct lipid microdomains within the apical domain of epithelial cells. <i>FEBS Letters</i> , <b>2007</b> , 581, 1783-7	3.8	121
102	New insights into the cell biology of hematopoietic progenitors by studying prominin-1 (CD133). <i>Cells Tissues Organs</i> , <b>2008</b> , 188, 127-38	2.1	116
101	Existence of distinct tyrosylprotein sulfotransferase genes: molecular characterization of tyrosylprotein sulfotransferase-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 11134-9	11.5	116
100	Proliferating versus differentiating stem and cancer cells exhibit distinct midbody-release behaviour. <i>Nature Communications</i> , <b>2011</b> , 2, 503	17.4	112
99	The stem cell marker CD133 (Prominin-1) is expressed in various human glandular epithelia. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2008</b> , 56, 977-93	3.4	109
98	Somatic stem cell marker prominin-1/CD133 is expressed in embryonic stem cell-derived progenitors. <i>Stem Cells</i> , <b>2005</b> , 23, 791-804	5.8	106
97	Identification of novel Prominin-1/CD133 splice variants with alternative C-termini and their expression in epididymis and testis. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 4301-11	5.3	94
96	Characterization of prominin-2, a new member of the prominin family of pentaspan membrane glycoproteins. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 8586-96	5.4	90
95	Haematopoietic stem cell differentiation promotes the release of prominin-1/CD133-containing membrane vesicles--a role of the endocytic-exocytic pathway. <i>EMBO Molecular Medicine</i> , <b>2011</b> , 3, 398-405 <sup>12</sup>		87
94	Nomenclature of prominin-1 (CD133) splice variants - an update. <i>Tissue Antigens</i> , <b>2007</b> , 69, 602-6		87
93	AC133 antigen, CD133, prominin-1, prominin-2, etc.: prominin family gene products in need of a rational nomenclature. <i>Stem Cells</i> , <b>2003</b> , 21, 506-8	5.8	87
92	Increased integration of transplanted CD73-positive photoreceptor precursors into adult mouse retina <b>2011</b> , 52, 6462-71		81
91	The cell surface proteome of human mesenchymal stromal cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e20399	3.7	80
90	Rat prominin, like its mouse and human orthologues, is a pentaspan membrane glycoprotein. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 285, 939-44	3.4	80
89	The intriguing links between prominin-1 (CD133), cholesterol-based membrane microdomains, remodeling of apical plasma membrane protrusions, extracellular membrane particles, and (neuro)epithelial cell differentiation. <i>FEBS Letters</i> , <b>2010</b> , 584, 1659-64	3.8	77
88	The stem cell marker prominin-1/CD133 on membrane particles in human cerebrospinal fluid offers novel approaches for studying central nervous system disease. <i>Stem Cells</i> , <b>2008</b> , 26, 698-705	5.8	76
87	Stem cell marker prominin-1/AC133 is expressed in duct cells of the adult human pancreas. <i>Pancreas</i> , <b>2008</b> , 36, e1-6	2.6	75
86	AC133 Hematopoietic Stem Cell Antigen: Human Homologue of Mouse Kidney Prominin or Distinct Member of a Novel Protein Family?. <i>Blood</i> , <b>1998</b> , 91, 2625-2626	2.2	74

85	Mixed phenotype hepatocellular carcinoma after transarterial chemoembolization and liver transplantation. <i>Liver Transplantation</i> , <b>2011</b> , 17, 943-54	4.5	69
84	Characterization of dental pulp stem cells from impacted third molars cultured in low serum-containing medium. <i>Cells Tissues Organs</i> , <b>2011</b> , 193, 344-65	2.1	69
83	Prominin-2 is a cholesterol-binding protein associated with apical and basolateral plasmalemmal protrusions in polarized epithelial cells and released into urine. <i>Cell and Tissue Research</i> , <b>2007</b> , 328, 31-47	4.2	64
82	Cancer/testis antigens can be immunological targets in clonogenic CD133+ melanoma cells. <i>Cancer Immunology, Immunotherapy</i> , <b>2009</b> , 58, 1635-46	7.4	62
81	Polarization of human hematopoietic progenitors during contact with multipotent mesenchymal stromal cells: effects on proliferation and clonogenicity. <i>Stem Cells and Development</i> , <b>2006</b> , 15, 815-29	4.4	61
80	Focus on molecules: prominin-1 (CD133). <i>Experimental Eye Research</i> , <b>2007</b> , 85, 585-6	3.7	60
79	Prominin-1 (CD133): from progenitor cells to human diseases. <i>Future Lipidology</i> , <b>2006</b> , 1, 213-225		59
78	Stem Cell-Derived Photoreceptor Transplants Differentially Integrate Into Mouse Models of Cone-Rod Dystrophy <b>2016</b> , 57, 3509-20		56
77	Human mesenchymal stem cell proliferation and osteogenic differentiation during long-term ex vivo cultivation is not age dependent. <i>Journal of Bone and Mineral Metabolism</i> , <b>2011</b> , 29, 224-35	2.9	52
76	Prominin-1 allows prospective isolation of neural stem cells from the adult murine hippocampus. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 3010-24	6.6	51
75	Outer segment formation of transplanted photoreceptor precursor cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e46305	3.7	51
74	Extracellular vesicles secreted by bone marrow- and adipose tissue-derived mesenchymal stromal cells fail to suppress lymphocyte proliferation. <i>Stem Cells and Development</i> , <b>2015</b> , 24, 1374-6	4.4	50
73	Expression of distinct splice variants of the stem cell marker prominin-1 (CD133) in glial cells. <i>Glia</i> , <b>2009</b> , 57, 860-74	9	48
72	Release of extracellular membrane vesicles from microvilli of epithelial cells is enhanced by depleting membrane cholesterol. <i>FEBS Letters</i> , <b>2009</b> , 583, 897-902	3.8	45
71	Pellet culture elicits superior chondrogenic redifferentiation than alginate-based systems. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 1146-52	2.8	45
70	Polarization and migration of hematopoietic stem and progenitor cells rely on the RhoA/ROCK 1 pathway and an active reorganization of the microtubule network. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 31661-71	5.4	43
69	Age-dependent regulation of chromaffin cell proliferation by growth factors, dehydroepiandrosterone (DHEA), and DHEA sulfate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 2007-12	11.5	42
68	Prominin-1 (CD133) is not restricted to stem cells located in the basal compartment of murine and human prostate. <i>Prostate</i> , <b>2011</b> , 71, 254-67	4.2	41

67	Wnt interaction and extracellular release of prominin-1/CD133 in human malignant melanoma cells. <i>Experimental Cell Research</i> , <b>2013</b> , 319, 810-9	4.2	40
66	Biogenesis of neurosecretory vesicles. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>1995</b> , 60, 315-27	3.9	37
65	Spontaneous in vitro transformation of adult neural precursors into stem-like cancer cells. <i>Brain Pathology</i> , <b>2009</b> , 19, 399-408	6	36
64	Nuclear transport of cancer extracellular vesicle-derived biomaterials through nuclear envelope invagination-associated late endosomes. <i>Oncotarget</i> , <b>2017</b> , 8, 14443-14461	3.3	36
63	CD133 is a modifier of hematopoietic progenitor frequencies but is dispensable for the maintenance of mouse hematopoietic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5582-7	11.5	35
62	Comparative analysis of proliferative potential and clonogenicity of MACS-immunomagnetic isolated CD34+ and CD133+ blood stem cells derived from a single donor. <i>Cell Proliferation</i> , <b>2006</b> , 39, 325-32	7.9	35
61	VAMP-associated protein-A and oxysterol-binding protein-related protein 3 promote the entry of late endosomes into the nucleoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 13834-13848	5.4	34
60	Selective delivery of secretory cargo in Golgi-derived carriers of nonepithelial cells. <i>Traffic</i> , <b>2002</b> , 3, 279-88	3.7	33
59	Rapid reconstitution of dendritic cells after allogeneic transplantation of CD133+ selected hematopoietic stem cells. <i>Leukemia</i> , <b>2005</b> , 19, 161-5	10.7	33
58	Tetraspanin CD9 determines invasiveness and tumorigenicity of human breast cancer cells. <i>Oncotarget</i> , <b>2015</b> , 6, 7970-91	3.3	32
57	Molecular cloning of the alpha-subunit of rat endopeptidase-24.18 (endopeptidase-2) and co-localization with endopeptidase-24.11 in rat kidney by in situ hybridization. <i>FEBS Letters</i> , <b>1992</b> , 309, 203-8	3.8	31
56	Differential expression of Prominin-1 (CD133) and Prominin-2 in major cephalic exocrine glands of adult mice. <i>Histochemistry and Cell Biology</i> , <b>2007</b> , 128, 409-19	2.4	30
55	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. <i>Journal of Biological Chemistry</i> , <b>1992</b> , 267, 2798-801	5.4	30
54	Increased membrane shedding--indicated by an elevation of CD133-enriched membrane particles--into the CSF in partial epilepsy. <i>Epilepsy Research</i> , <b>2012</b> , 99, 101-6	3	27
53	Prominin-1 (CD133): Molecular and Cellular Features Across Species. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 777, 3-24	3.6	27
52	Rat endopeptidase-24.18 alpha subunit is secreted into the culture medium as a zymogen when expressed by COS-1 cells. <i>FEBS Letters</i> , <b>1993</b> , 335, 361-6	3.8	26
51	Prominin-1 controls stem cell activation by orchestrating ciliary dynamics. <i>EMBO Journal</i> , <b>2019</b> , 38,	13	26
50	Tunneling nanotubes mediate the transfer of stem cell marker CD133 between hematopoietic progenitor cells. <i>Experimental Hematology</i> , <b>2016</b> , 44, 1092-1112.e2	3.1	25

49	CD133 and membrane microdomains: old facets for future hypotheses. <i>World Journal of Gastroenterology</i> , <b>2011</b> , 17, 4149-52	5.6	24
48	CD133 might be a pan marker of epithelial cells with dedifferentiation capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1451-2	11.5	22
47	Human prominin-1 (CD133) is detected in both neoplastic and non-neoplastic salivary gland diseases and released into saliva in a ubiquitinated form. <i>PLoS ONE</i> , <b>2014</b> , 9, e98927	3.7	22
46	Transit amplifying cells coordinate mouse incisor mesenchymal stem cell activation. <i>Nature Communications</i> , <b>2019</b> , 10, 3596	17.4	21
45	Progenitor cells from cartilage--no osteoarthritis-grade-specific differences in stem cell marker expression. <i>Biotechnology Progress</i> , <b>2013</b> , 29, 206-12	2.8	21
44	Distinct and conserved prominin-1/CD133-positive retinal cell populations identified across species. <i>PLoS ONE</i> , <b>2011</b> , 6, e17590	3.7	20
43	Prominin-2 is a novel marker of distal tubules and collecting ducts of the human and murine kidney. <i>Histochemistry and Cell Biology</i> , <b>2010</b> , 133, 527-39	2.4	20
42	Robust expression of Prominin-2 all along the adult male reproductive system and urinary bladder. <i>Histochemistry and Cell Biology</i> , <b>2008</b> , 130, 749-59	2.4	20
41	The stem cell marker CD133 meets the endosomal compartment--new insights into the cell division of hematopoietic stem cells. <i>Blood Cells, Molecules, and Diseases</i> , <b>2008</b> , 41, 194-5	2.1	19
40	Differential expression of biofunctional GM1 and GM3 gangliosides within the plastic-adherent multipotent mesenchymal stromal cell population. <i>Cytotherapy</i> , <b>2010</b> , 12, 131-42	4.8	18
39	Cell Surface Proteome of Dental Pulp Stem Cells Identified by Label-Free Mass Spectrometry. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159824	3.7	17
38	Prominin-1 (CD133) modulates the architecture and dynamics of microvilli. <i>Traffic</i> , <b>2019</b> , 20, 39-60	5.7	16
37	ALCAM contributes to brain metastasis formation in non-small-cell lung cancer through interaction with the vascular endothelium. <i>Neuro-Oncology</i> , <b>2020</b> , 22, 955-966	1	16
36	Letter to the editor: An intriguing relationship between lipid droplets, cholesterol-binding protein CD133 and Wnt/ $\beta$ -catenin signaling pathway in carcinogenesis. <i>Stem Cells</i> , <b>2015</b> , 33, 1366-70	5.8	16
35	Spatial distribution of prominin-1 (CD133)-positive cells within germinative zones of the vertebrate brain. <i>PLoS ONE</i> , <b>2013</b> , 8, e63457	3.7	16
34	Sox9 expression of alginate-encapsulated chondrocytes is stimulated by low cell density. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 910-8	5.4	16
33	Immunohistochemical in situ characterization of orthopedic implants on polymethyl methacrylate embedded cutting and grinding sections. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 83, 313-22	5.4	15
32	SOX2-silenced squamous cell carcinoma: a highly malignant form of esophageal cancer with SOX2 promoter hypermethylation. <i>Modern Pathology</i> , <b>2018</b> , 31, 83-92	9.8	14

31	The hematopoietic stem cell polarization and migration: A dynamic link between RhoA signaling pathway, microtubule network and ganglioside-based membrane microdomains. <i>Communicative and Integrative Biology</i> , <b>2011</b> , 4, 201-4	1.7	14
30	Anti-human CD9 antibody Fab fragment impairs the internalization of extracellular vesicles and the nuclear transfer of their cargo proteins. <i>Journal of Cellular and Molecular Medicine</i> , <b>2019</b> , 23, 4408-4421	5.6	13
29	Prominin-1: a distinct cholesterol-binding membrane protein and the organisation of the apical plasma membrane of epithelial cells. <i>Sub-Cellular Biochemistry</i> , <b>2010</b> , 51, 399-423	5.5	13
28	Prominent role of prominin in the retina. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 777, 55-71	3.6	13
27	Uptake and Fate of Extracellular Membrane Vesicles: Nucleoplasmic Reticulum-Associated Late Endosomes as a New Gate to Intercellular Communication. <i>Cells</i> , <b>2020</b> , 9,	7.9	11
26	Phenotypic, Morphological and Adhesive Differences of Human Hematopoietic Progenitor Cells Cultured on Murine versus Human Mesenchymal Stromal Cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 15680	4.9	10
25	Monoclonal Antibodies 13A4 and AC133 Do Not Recognize the Canine Ortholog of Mouse and Human Stem Cell Antigen Prominin-1 (CD133). <i>PLoS ONE</i> , <b>2016</b> , 11, e0164079	3.7	10
24	Early ciliary and prominin-1 dysfunctions precede neurogenesis impairment in a mouse model of type 2 diabetes. <i>Neurobiology of Disease</i> , <b>2017</b> , 108, 13-28	7.5	9
23	CD133 expression in well-differentiated pancreatic neuroendocrine tumors: a potential predictor of progressive clinical courses. <i>Human Pathology</i> , <b>2017</b> , 61, 148-157	3.7	7
22	CD133-Positive Membrane Particles in Cerebrospinal Fluid of Patients with Inflammatory and Degenerative Neurological Diseases. <i>Frontiers in Cellular Neuroscience</i> , <b>2017</b> , 11, 77	6.1	7
21	Commentary: "prom1 function in development, intestinal inflammation, and intestinal tumorigenesis". <i>Frontiers in Oncology</i> , <b>2015</b> , 5, 91	5.3	7
20	Immunohistochemical localization and characterization of putative mesenchymal stem cell markers in the retinal capillary network of rodents. <i>Cells Tissues Organs</i> , <b>2013</b> , 197, 344-59	2.1	7
19	CD9, a tetraspanin target for cancer therapy?. <i>Experimental Biology and Medicine</i> , <b>2021</b> , 246, 1121-1138	3.7	6
18	Prominins control ciliary length throughout the animal kingdom: New lessons from human prominin-1 and zebrafish prominin-3. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6007-6022	5.4	5
17	Tyrosine O-sulfation. <i>Current Protocols in Protein Science</i> , <b>2005</b> , Chapter 14, Unit 14.7	3.1	5
16	AC133 Hematopoietic Stem Cell Antigen: Human Homologue of Mouse Kidney Prominin or Distinct Member of a Novel Protein Family?. <i>Blood</i> , <b>1998</b> , 91, 2625-2626	2.2	3
15	Comprehensive Overview of CD133 Biology in Neural Tissues across Species <b>2015</b> , 113-129		2
14	Deciphering the roles of prominins in the visual system. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 17166	5.4	2

13	Exosomes, microvesicles, and their friends in solid tumors <b>2020</b> , 39-80		2
12	Targeting of neutral endopeptidase 24.11 in polarized cells. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21 ( Pt 3), 668-72	5.1	1
11	Tyrosine Sulfation <b>2004</b> , 294-297		1
10	Assessment of CD133-positive extracellular membrane vesicles in pancreatic cancer ascites and beyond. <i>Medical Molecular Morphology</i> , <b>2020</b> , 53, 60-62	2.3	1
9	Itraconazole inhibits nuclear delivery of extracellular vesicle cargo by disrupting the entry of late endosomes into the nucleoplasmic reticulum. <i>Journal of Extracellular Vesicles</i> , <b>2021</b> , 10, e12132	16.4	1
8	Prominin-1/CD133, saliva and salivary glands - Integrating existing data to new clinical approaches. <i>Experimental Cell Research</i> , <b>2019</b> , 383, 111566	4.2	0
7	Variation of membrane particle-bound CD133 in cerebrospinal fluid of patients with subarachnoid and intracerebral hemorrhage. <i>Journal of Neurosurgery</i> , <b>2020</b> , 1-8	3.2	0
6	Commentary: Could We Address the Interplay Between CD133, Wnt/ $\beta$ Catenin, and TERT Signaling Pathways as a Potential Target for Glioblastoma Therapy?. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 712358	5.3	0
5	Migration of Stem Cells: Role of the RhoA/ROCK I Pathway (Method) <b>2012</b> , 319-331		
4	Cellular and Molecular Events Underlying the Interaction of Hematopoietic Stem and Progenitor Cells with Mesenchymal Stem Cells.. <i>Blood</i> , <b>2005</b> , 106, 2309-2309	2.2	
3	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". <i>Journal of Breast Cancer</i> , <b>2016</b> , 19, 336-338	3	
2	Author Response: Possibility of Cytoplasmic Transportation Between Donor-Host Cell Following Photoreceptor Transplantation <b>2016</b> , 57, 5336-5337		
1	Protein Modifications   Protein Tyrosine Sulfation <b>2021</b> , 192-205		