Pierre A Coulombe

List of Publications by Year
in descending order

116	11,116	28274	30087
papers	citations	55 h-index	103 g-index

125	125	125	9560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Capturing intermediate filament networks. ELife, 2022, 11, .	6.0	0
2	Intermediate filaments as effectors of differentiation. Current Opinion in Cell Biology, 2021, 68, 155-162.	5.4	33
3	Editorial: Architectural cell elements as multimodal sensors, transducers, and actuators. Current Opinion in Cell Biology, 2021, 68, iii-v.	5.4	0
4	A Niche Above: A Novel Modality of Stem Cell Regulation in Mammalian Skin Epidermis. Cell Stem Cell, 2021, 28, 365-366.	11.1	0
5	A role for keratin 17 during DNA damage response and tumor initiation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
6	Keratin 17 regulates nuclear morphology and chromatin organization. Journal of Cell Science, 2020, 133, .	2.0	14
7	A role for keratins in supporting mitochondrial organization and function in skin keratinocytes. Molecular Biology of the Cell, 2020, 31, 1103-1111.	2.1	22
8	Structure-Function Analyses of a Keratin Heterotypic Complex Identify Specific Keratin Regions Involved in Intermediate Filament Assembly. Structure, 2020, 28, 355-362.e4.	3.3	19
9	Keratin 14-dependent disulfides regulate epidermal homeostasis and barrier function via 14-3-3Ïƒ and YAP1. ELife, 2020, 9, .	6.0	41
10	Sam68 is required for the growth and survival of nonmelanoma skin cancer. Cancer Medicine, 2019, 8, 6106-6113.	2.8	13
11	Altered keratinocyte differentiation is an early driver of keratin mutation-based palmoplantar keratoderma. Human Molecular Genetics, 2019, 28, 2255-2270.	2.9	25
12	Non-canonical processes that shape the cell migration landscape. Current Opinion in Cell Biology, 2019, 57, 123-134.	5.4	12
13	Types I and II Keratin Intermediate Filaments. Cold Spring Harbor Perspectives in Biology, 2018, 10, a018275.	5.5	171
14	The keratin 16 null phenotype is modestly impacted by genetic strain background in mice. Experimental Dermatology, 2018, 27, 672-674.	2.9	2
15	Sexual Dimorphism in Response toÂanÂNRF2ÂInducer in a Model for PachyonychiaÂCongenita. Journal of Investigative Dermatology, 2018, 138, 1094-1100.	0.7	13
16	Keratin 6 regulates collective keratinocyte migration by altering cellâ€“cell and cellâ€“matrix adhesion. Journal of Cell Biology, 2018, 217, 4314-4330.	5.2	70
17	The Molecular Revolution in Cutaneous Biology: Keratin Genes and their Associated Disease: Diversity, Opportunities, and Challenges. Journal of Investigative Dermatology, 2017, 137, e67-e71.	0.7	25
18	Randomized, split-body, single-blinded clinical trial of topical broccoli sprout extract: Assessing the feasibility of its use in keratin-based disorders. Journal of the American Academy of Dermatology, 2017, 76, 449-453.e1.	1.2	18

#	Article	IF	Citations
19	Oxidative stress management in the hair follicle: Could targeting NRF2 counter ageâ€related hair disorders and beyond?. BioEssays, 2017, 39, 1700029.	2.5	33
20	Skin Keratins. Methods in Enzymology, 2016, 568, 303-350.	1.0	54
21	Discovery of keratin function and role in genetic diseases: the year that 1991 was. Molecular Biology of the Cell, 2016, 27, 2807-2810.	2.1	4
22	Keratins Are Going Nuclear. Developmental Cell, 2016, 38, 227-233.	7.0	52
23	Oxidative stress and dysfunctional NRF2 underlie pachyonychia congenita phenotypes. Journal of Clinical Investigation, 2016, 126, 2356-2366.	8.2	48
24	Regulation of C-X-C chemokine gene expression by keratin 17 and hnRNP K in skin tumor keratinocytes. Journal of Cell Biology, 2015, 208, 613-627.	5.2	71
25	Complementary Roles of Specific Cysteines in Keratin 14 toward the Assembly, Organization, and Dynamics of Intermediate Filaments in Skin Keratinocytes. Journal of Biological Chemistry, 2015, 290, 22507-22519.	3.4	15
26	Keratin-dependent regulation of Aire and gene expression in skin tumor keratinocytes. Nature Genetics, 2015, 47, 933-938.	21.4	111
27	A role for disulfide bonding in keratin intermediate filament organization and dynamics in skin keratinocytes. Journal of Cell Biology, 2015, 209, 59-72.	5.2	47
28	Periderm prevents pathological epithelial adhesions during embryogenesis. Journal of Clinical Investigation, 2014, 124, 3891-3900.	8.2	105
29	Directed Expression of a Chimeric Type II Keratin Partially Rescues Keratin 5-null Mice. Journal of Biological Chemistry, 2014, 289, 19435-19447.	3.4	10
30	Networking galore: intermediate filaments and cell migration. Current Opinion in Cell Biology, 2013, 25, 600-612.	5.4	162
31	The expanding significance of keratin intermediate filaments in normal and diseased epithelia. Current Opinion in Cell Biology, 2013, 25, 47-56.	5.4	187
32	Keratin Intracellular Concentration Revisited: Implications for Keratin Function in Surface Epithelia. Journal of Investigative Dermatology, 2013, 133, 850-853.	0.7	23
33	The incidental pore: Ca_V1.2 and stem cell activation in quiescent hair follicles. Genes and Development, 2013, 27, 1315-1317.	5.9	3
34	Keratin 16 regulates innate immunity in response to epidermal barrier breach. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19537-19542.	7.1	149
35	Keratin 16â€“Null Mice Develop Palmoplantar Keratoderma, a Hallmark Feature of Pachyonychia Congenita and Related Disorders. Journal of Investigative Dermatology, 2012, 132, 1384-1391.	0.7	62
36	Identification of Novel Interaction between Annexin A2 and Keratin 17. Journal of Biological Chemistry, 2012, 287, 7573-7581.	3.4	31

#	Article	IF	Citations
37	A wound-induced keratin inhibits Src activity during keratinocyte migration and tissue repair. Journal of Cell Biology, 2012, 197, 381-389.	5.2	98
38	An MBoC Favorite: Identification of novel principles of keratin filament turnover in living cells. Molecular Biology of the Cell, 2012, 23, 3926-3926.	2.1	0
39	Keratin intermediate filament proteins â€“ novel regulators of inflammation and immunity in skin. Journal of Cell Science, 2012, 125, 5257-5258.	2.0	36
40	Defining Keratin Protein Function in Skin Epithelia: Epidermolysis Bullosa Simplex and Its Aftermath. Journal of Investigative Dermatology, 2012, 132, 763-775.	0.7	102
41	Structural basis for heteromeric assembly and perinuclear organization of keratin filaments. Nature Structural and Molecular Biology, 2012, 19, 707-715.	8.2	158
42	Mathematical Modeling of the Impact of Actin and Keratin Filaments onÂKeratinocyte Cell Spreading. Biophysical Journal, 2012, 103, 1828-1838.	0.5	9
43	Type I Keratin 17 Protein Is Phosphorylated on Serine 44 by p90 Ribosomal Protein S6 Kinase 1 (RSK1) in a Growth- and Stress-dependent Fashion. Journal of Biological Chemistry, 2011, 286, 42403-42413.	3.4	28
44	Stressing the role of O-GlcNAc: linking cell survival to keratin modification. Nature Cell Biology, 2010, 12, 847-849.	10.3	21
45	Keratin 17 promotes epithelial proliferation and tumor growth by polarizing the immune response in skin. Nature Genetics, 2010, 42, 910-914.	21.4	197
46	Emerging role for the cytoskeleton as an organizer and regulator of translation. Nature Reviews Molecular Cell Biology, 2010, 11, 75-81.	37.0	174
47	Modeling the Self-Organization Property of Keratin Intermediate Filaments. Biophysical Journal, 2010, 99, 2748-2756.	0.5	11
48	Epidermolysis bullosa simplex: a paradigm for disorders of tissue fragility. Journal of Clinical Investigation, 2009, 119, 1784-1793.	8.2	174
49	Self-organization of keratin intermediate filaments into cross-linked networks. Journal of Cell Biology, 2009, 186, 409-421.	5.2	66
50	Keratins and protein synthesis: the plot thickens. Journal of Cell Biology, 2009, 187, 157-159.	5.2	16
51	SKPing a Hurdle: Sox2 and Adult Dermal Stem Cells. Cell Stem Cell, 2009, 5, 569-570.	11.1	10
52	Hedgehog Signaling, Keratin 6 Induction, and Sebaceous Gland Morphogenesis. American Journal of Pathology, 2008, 173, 752-761.	3.8	27
53	Vibrissa hair bulge houses two populations of skin epithelial stem cells distinct by their keratin profile. FASEB Journal, 2008, 22, 1404-1415.	0.5	47
54	Overexpressed Transient Receptor Potential Vanilloid 3 Ion Channels in Skin Keratinocytes Modulate Pain Sensitivity via Prostaglandin E₂. Journal of Neuroscience, 2008, 28, 13727-13737.	3.6	191

#	Article	IF	Citations
55	Reprogramming of keratin biosynthesis by sulforaphane restores skin integrity in epidermolysis bullosa simplex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14460-14465.	7.1	86
56	Intermediate filament scaffolds fulfill mechanical, organizational, and signaling functions in the cytoplasm. Genes and Development, 2007, 21, 1581-1597.	5.9	268
57	Contribution of olfactory neural stem cells to tissue maintenance and regeneration. Nature Neuroscience, 2007, 10, 720-726.	14.8	385
58	Keratin Expression Provides Novel Insight into the Morphogenesis and Function of the Companion Layer in Hair Follicles. Journal of Investigative Dermatology, 2007, 127, 1061-1073.	0.7	37
59	Interaction between the keratin cytoskeleton and eEF1BÎ³ affects protein synthesis in epithelial cells. Nature Structural and Molecular Biology, 2007, 14, 982-983.	8.2	49
60	Keratin function in skin epithelia: a broadening palette with surprising shades. Current Opinion in Cell Biology, 2007, 19, 13-23.	5.4	167
61	A keratin cytoskeletal protein regulates protein synthesis and epithelial cell growth. Nature, 2006, 441, 362-365.	27.8	430
62	New consensus nomenclature for mammalian keratins. Journal of Cell Biology, 2006, 174, 169-174.	5.2	630
63	Keratin 17 modulates hair follicle cycling in a TNFÂ-dependent fashion. Genes and Development, 2006, 20, 1353-1364.	5.9	163
64	Exploiting the Keratin 17 Gene Promoter To Visualize Live Cells in Epithelial Appendages of Mice. Molecular and Cellular Biology, 2005, 25, 7249-7259.	2.3	55
65	Hairless triggers reactivation of hair growth by promoting Wnt signaling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14653-14658.	7.1	133
66	Defining the Properties of the Nonhelical Tail Domain in Type II Keratin 5: Insight from a Bullous Disease-causing Mutation. Molecular Biology of the Cell, 2005, 16, 1427-1438.	2.1	22
67	Overcoming Functional Redundancy To Elicit Pachyonychia Congenita-Like Nail Lesions in Transgenic Mice. Molecular and Cellular Biology, 2005, 25, 197-205.	2.3	25
68	A small surface hydrophobic stripe in the coiled-coil domain of type I keratins mediates tetramer stability. Journal of Cell Biology, 2005, 168, 965-974.	5.2	31
69	MIM/BEG4, a Sonic hedgehog-responsive gene that potentiates Gli-dependent transcription. Genes and Development, 2004, 18, 2724-2729.	5.9	135
70	Intermediate Filament Proteins and Their Associated Diseases. New England Journal of Medicine, 2004, 351, 2087-2100.	27.0	434
71	A Novel Mouse Type I Intermediate Filament Gene, Keratin 17n (K17n), Exhibits Preferred Expression in Nail Tissue. Journal of Investigative Dermatology, 2004, 122, 965-970.	0.7	30
72	Barrier Function in Transgenic Mice Overexpressing K16, Involucrin, and Filaggrin in the Suprabasal Epidermis. Journal of Investigative Dermatology, 2004, 123, 603-606.	0.7	32

#	Article	IF	Citations
73	Cytoplasmic intermediate filaments revealed as dynamic and multipurpose scaffolds. Nature Cell Biology, 2004, 6, 699-706.	10.3	320
74	Great promises yet to be fulfilled: Defining keratin intermediate filament function in vivo. European Journal of Cell Biology, 2004, 83, 735-746.	3.6	60
75	Intermediate filaments and tissue repair. Experimental Cell Research, 2004, 301, 68-76.	2.6	78
76	Skin: An Ideal Model System to Study Keratin Genes and Proteins. Methods in Cell Biology, 2004, 78, 453-487.	1.1	10
77	Wound Epithelialization: Accelerationg the Pace of Discovery. Journal of Investigative Dermatology, 2003, 121, 219-230.	0.7	138
78	Type II Epithelial Keratin 6hf (K6hf) Is Expressed in the Companion Layer, Matrix, and Medulla in Anagen-Stage Hair Follicles. Journal of Investigative Dermatology, 2003, 121, 1276-1282.	0.7	57
79	Loss of keratin 6 (K6) proteins reveals a function for intermediate filaments during wound repair. Journal of Cell Biology, 2003, 163, 327-337.	5.2	185
80	Keratin 17 null mice exhibit age- and strain-dependent alopecia. Genes and Development, 2002, 16, 1412-1422.	5.9	115
81	Les kÃ©ratines : un autre regard sur la biologie de la peau. Medecine/Sciences, 2002, 18, 45-54.	0.2	5
82	â€˜Hardâ€™ and â€˜softâ€™ principles defining the structure, function and regulation of keratin intermediate filaments. Current Opinion in Cell Biology, 2002, 14, 110-122.	5.4	614
83	An Ex Vivo Assay to Assess the Potential of Skin Keratinocytes for Wound Epithelialization. Journal of Investigative Dermatology, 2002, 118, 866-870.	0.7	64
84	Keratin 16 Expression Defines a Subset of Epithelial Cells During Skin Morphogenesis and the Hair Cycle. Journal of Investigative Dermatology, 2002, 119, 1137-1149.	0.7	77
85	A new fold on an old story: attachment of intermediate filaments to desmosomes. , 2002, 9, 560-562.		8
86	A reporter transgene based on a human keratin 6 gene promoter is specifically expressed in the periderm of mouse embryos. Mechanisms of Development, 2001, 100, 65-69.	1.7	31
87	A 'hot-spot' mutation alters the mechanical properties of keratin filament networks. Nature Cell Biology, 2001, 3, 503-506.	10.3	137
88	The nonhelical tail domain of keratin 14 promotes filament bundling and enhances the mechanical properties of keratin intermediate filaments in vitro. Journal of Cell Biology, 2001, 155, 747-754.	5.2	66
89	Increased Levels of Keratin 16 Alter Epithelialization Potential of Mouse Skin Keratinocytes In Vivo and Ex Vivo. Molecular Biology of the Cell, 2001, 12, 3439-3450.	2.1	64
90	Intermediate filaments at a glance. Journal of Cell Science, 2001, 114, 4345-4347.	2.0	68

#	Article	IF	Citations
91	Keratin 17 Expression in the Hard Epithelial Context of the Hair and Nail, and its Relevance for the Pachyonychia Congenita Phenotype. Journal of Investigative Dermatology, 2000, 114, 1101-1107.	0.7	80
92	The â€˜insâ€™ and â€˜outsâ€™ of intermediate filament organization. Trends in Cell Biology, 2000, 10, 420-428.	7.9	160
93	Introducing a Null Mutation in the Mouse K6Îł± and K6Îł² Genes Reveals Their Essential Structural Role in the Oral Mucosa. Journal of Cell Biology, 2000, 150, 921-928.	5.2	98
94	Keratin Filament Suspensions Show Unique Micromechanical Properties. Journal of Biological Chemistry, 1999, 274, 19145-19151.	3.4	123
95	The Functional Diversity of Epidermal Keratins Revealed by the Partial Rescue of the Keratin 14 Null Phenotype by Keratin 16. Journal of Cell Biology, 1999, 146, 1185-1201.	5.2	52
96	Re-epithelialization of Porcine Skin By The Sweat Apparatus. Journal of Investigative Dermatology, 1998, 110, 13-19.	0.7	80
97	The Two Functional Keratin 6 Genes of Mouse Are Differentially Regulated and Evolved Independently from Their Human Orthologs. Genomics, 1998, 53, 170-183.	2.9	80
98	Directed Expression of Keratin 16 to the Progenitor Basal Cells of Transgenic Mouse Skin Delays Skin Maturation. Journal of Cell Biology, 1998, 142, 1035-1051.	5.2	77
99	Onset of Keratin 17 Expression Coincides with the Definition of Major Epithelial Lineages during Skin Development. Journal of Cell Biology, 1998, 143, 469-486.	5.2	286
100	The Type I Keratin 19 Possesses Distinct and Context-dependent Assembly Properties. Journal of Biological Chemistry, 1998, 273, 35176-35184.	3.4	40
101	Functional Differences between Keratins of Stratified and Simple Epithelia. Journal of Cell Biology, 1998, 143, 487-499.	5.2	91
102	A Proline Residue in the Îł±-Helical Rod Domain of Type I Keratin 16 Destabilizes Keratin Heterotetramers. Journal of Biological Chemistry, 1997, 272, 32557-32565.	3.4	43
103	Defining a Region of the Human Keratin 6a Gene That Confers Inducible Expression in Stratified Epithelia of Transgenic Mice. Journal of Biological Chemistry, 1997, 272, 11979-11985.	3.4	41
104	Towards a Molecular Definition of Keratinocyte Activation after Acute Injury to Stratified Epithelia. Biochemical and Biophysical Research Communications, 1997, 236, 231-238.	2.1	128
105	Cytoskeleton: Missing links found?. Current Biology, 1996, 6, 1563-1566.	3.9	11
106	Cloning and Characterization of Multiple Human Genes and cDNAs Encoding Highly Related Type II Keratin 6 Isoforms. Journal of Biological Chemistry, 1995, 270, 18581-18592.	3.4	104
107	Overexpression of human keratin 16 produces a distinct skin phenotype in transgenic mouse skin. Biochemistry and Cell Biology, 1995, 73, 611-618.	2.0	21
108	The cellular and molecular biology of keratins: beginning a new era. Current Opinion in Cell Biology, 1993, 5, 17-29.	5.4	107

#	Article	IF	Citations
109	Of mice and men: Genetic skin diseases of keratin. Cell, 1992, 69, 899-902.	28.9	138
110	Point mutations in human keratin 14 genes of epidermolysis bullosa simplex patients: Genetic and functional analyses. Cell, 1991, 66, 1301-1311.	28.9	657
111	Mutant keratin expression in transgenic mice causes marked abnormalities resembling a human genetic skin disease. Cell, 1991, 64, 365-380.	28.9	425
112	Lung Surfactant-associated Proteins and Type IV Collagen Share Common Epitopes: An Immunocytochemical Demonstration. The American Review of Respiratory Disease, 1989, 140, 1040-1044.	2.9	7
113	Application of linear intergration in the morphometric study of mild and severe pulmonary aveolar injury. Experimental and Molecular Pathology, 1988, 48, 77-96.	2.1	1
114	Hepatic handling of vitamin D3 in micronodular cirrhosis: A structureâ€"function study in the rat. Journal of Bone and Mineral Research, 1988, 3, 461-472.	2.8	9
115	Acute sensitivity of BHT-induced alveolar toxicity to a diquat challenge in murine lungs. Experimental and Molecular Pathology, 1987, 47, 241-261.	2.1	4
116	Ready evaluation of lung alveolar toxic damage with histological sections morphometry. Toxicology Letters, 1984, 20, 263-269.	0.8	4