

Vladimir A Botchkarev

List of Publications by Year in descending order

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99
papers

7,738
citations

34016

52
h-index

51492

86
g-index

102
all docs

102
docs citations

102
times ranked

6634
citing authors

#	ARTICLE	IF	CITATIONS
1	Noggin is a mesenchymally derived stimulator of hair-follicle induction. <i>Nature Cell Biology</i> , 1999, 1, 158-164.	4.6	360
2	Control of murine hair follicle regression (catagen) by TGF β 21<i>in vivo</i>. <i>FASEB Journal</i> , 2000, 14, 752-760.	0.2	301
3	Cathepsin L deficiency as molecular defect offurless:hyperproliferation of keratinocytes and pertubation of hair follicle cycling. <i>FASEB Journal</i> , 2000, 14, 2075-2086.	0.2	290
4	Molecular Control of Epithelialâ€“Mesenchymal Interactions During Hair Follicle Cycling. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2003, 8, 46-55.	0.8	268
5	Abundant Production of Brain-Derived Neurotrophic Factor by Adult Visceral Epithelia. <i>American Journal of Pathology</i> , 1999, 155, 1183-1193.	1.9	245
6	Role of nerve growth factor in a mouse model of allergic airway inflammation and asthma. <i>European Journal of Immunology</i> , 1998, 28, 3240-3251.	1.6	231
7	Pathobiology of chemotherapy-induced hair loss. <i>Lancet Oncology</i> , The, 2013, 14, e50-e59.	5.1	222
8	SCF/câ€“kit signaling is required for cyclic regeneration of the hair pigmentation unit. <i>FASEB Journal</i> , 2001, 15, 645-658.	0.2	219
9	Noggin is required for induction of the hair follicle growth phase in postnatal skin. <i>FASEB Journal</i> , 2001, 15, 2205-2214.	0.2	207
10	BMP signaling in the control of skin development and hair follicle growth. <i>Differentiation</i> , 2004, 72, 512-526.	1.0	173
11	Bone Morphogenetic Proteins and Their Antagonists in Skin and Hair Follicle Biology. <i>Journal of Investigative Dermatology</i> , 2003, 120, 36-47.	0.3	164
12	Integration of Notch 1 and Calcineurin/NFAT Signaling Pathways in Keratinocyte Growth and Differentiation Control. <i>Developmental Cell</i> , 2005, 8, 665-676.	3.1	163
13	p63 regulates <i>Satb1</i> to control tissue-specific chromatin remodeling during development of the epidermis. <i>Journal of Cell Biology</i> , 2011, 194, 825-839.	2.3	160
14	Neurotrophins in Skin Biology and Pathology. <i>Journal of Investigative Dermatology</i> , 2006, 126, 1719-1727.	0.3	154
15	Molecular biology of hair morphogenesis: Development and cycling. <i>The Journal of Experimental Zoology</i> , 2003, 298B, 164-180.	1.4	144
16	The Lysosomal Protease Cathepsin L Is an Important Regulator of Keratinocyte and Melanocyte Differentiation During Hair Follicle Morphogenesis and Cycling. <i>American Journal of Pathology</i> , 2002, 160, 1807-1821.	1.9	142
17	Modulation of BMP Signaling by Noggin is Required for Induction of the Secondary (Nontylotrich) Hair Follicles. <i>Journal of Investigative Dermatology</i> , 2002, 118, 3-10.	0.3	134
18	Cutaneous Expression of CRH and CRHâ€“R: Is There a â€œSkin Stress Response System?â€• <i>Annals of the New York Academy of Sciences</i> , 1999, 885, 287-311.	1.8	132

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19	Hair cycle-dependent plasticity of skin and hair follicle innervation in normal murine skin. , 1997, 386, 379-395.		127
20	Do Hair Bulb Melanocytes Undergo Apoptosis During Hair Follicle Regression (Catagen)?. Journal of Investigative Dermatology, 1998, 111, 941-947.	0.3	126
21	Genome organizing function of SATB1 in tumor progression. Seminars in Cancer Biology, 2013, 23, 72-79.	4.3	117
22	A simple immunofluorescence technique for simultaneous visualization of mast cells and nerve fibers reveals selectivity and hair cycle - dependent changes in mast cell - nerve fiber contacts in murine skin. Archives of Dermatological Research, 1997, 289, 292-302.	1.1	114
23	Epigenetic Regulation of Gene Expression in Keratinocytes. Journal of Investigative Dermatology, 2012, 132, 2505-2521.	0.3	111
24	Lhx2 differentially regulates Sox9, Tcf4 and Lgr5 in hair follicle stem cells to promote epidermal regeneration after injury. Development (Cambridge), 2011, 138, 4843-4852.	1.2	104
25	Substance P as an Immunomodulatory Neuropeptide in a Mouse Model for Autoimmune Hair Loss (Alopecia Areata). Journal of Investigative Dermatology, 2007, 127, 1489-1497.	0.3	102
26	Neural Mechanisms of Hair Growth Control. Journal of Investigative Dermatology Symposium Proceedings, 1997, 2, 61-68.	0.8	99
27	The Fate of Hair Follicle Melanocytes During the Hair Growth Cycle. Journal of Investigative Dermatology Symposium Proceedings, 1999, 4, 323-332.	0.8	99
28	Hair-Cycle-Associated Remodeling of the Peptidergic Innervation of Murine Skin, and Hair Growth Modulation by Neuropeptides. Journal of Investigative Dermatology, 2001, 116, 236-245.	0.3	96
29	p53/p63/p73 in the Epidermis in Health and Disease. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a015248-a015248.	2.9	96
30	A role for p75 neurotrophin receptor in the control of apoptosis-driven hair follicle regression. FASEB Journal, 2000, 14, 1931-1942.	0.2	94
31	A new role for neurotrophins: involvement of brain-derived neurotrophic factor and neurotrophin-4 in hair cycle control. FASEB Journal, 1999, 13, 395-410.	0.2	93
32	Hair Cycle-Dependent Changes in Adrenergic Skin Innervation, and Hair Growth Modulation by Adrenergic Drugs. Journal of Investigative Dermatology, 1999, 113, 878-887.	0.3	90
33	Bone morphogenetic protein signaling regulates the size of hair follicles and modulates the expression of cell cycle-associated genes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18166-18171.	3.3	90
34	Epithelial growth control by neurotrophins: leads and lessons from the hair follicle. Progress in Brain Research, 2004, 146, 493-513.	0.9	88
35	Does blue light restore human epidermal barrier function via activation of Opsin during cutaneous wound healing?. Lasers in Surgery and Medicine, 2019, 51, 370-382.	1.1	85
36	Chronobiology of the Hair Follicle: Hunting the "Hair Cycle Clock". Journal of Investigative Dermatology Symposium Proceedings, 1999, 4, 338-345.	0.8	82

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37	A New Role for Neurotrophin-3. <i>American Journal of Pathology</i> , 1998, 153, 785-799.	1.9	81
38	p63 and Brg1 control developmentally regulated higher-order chromatin remodelling at the epidermal differentiation complex locus in epidermal progenitor cells. <i>Development (Cambridge)</i> , 2014, 141, 101-111.	1.2	81
39	Developmental timing of hair follicle and dorsal skin innervation in mice. <i>Journal of Comparative Neurology</i> , 2002, 448, 28-52.	0.9	77
40	Molecular Mechanisms of Chemotherapy-Induced Hair Loss. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2003, 8, 72-75.	0.8	75
41	p53 Involvement in the Control of Murine Hair Follicle Regression. <i>American Journal of Pathology</i> , 2001, 158, 1913-1919.	1.9	73
42	Edar Signaling in the Control of Hair Follicle Development. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2005, 10, 247-251.	0.8	68
43	Bone morphogenetic protein (BMP) signaling controls hair pigmentation by means of cross-talk with the melanocortin receptor-1 pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 93-98.	3.3	68
44	Fate of Melanocytes During Development of the Hair Follicle Pigmentary Unit. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2003, 8, 76-79.	0.8	65
45	Cbx4 regulates the proliferation of thymic epithelial cells and thymus function. <i>Development (Cambridge)</i> , 2013, 140, 780-788.	1.2	64
46	The Skin POMC System (SPS): Leads and Lessons from the Hair Follicle. <i>Annals of the New York Academy of Sciences</i> , 1999, 885, 350-363.	1.8	63
47	Noggin overexpression inhibits eyelid opening by altering epidermal apoptosis and differentiation. <i>EMBO Journal</i> , 2003, 22, 2992-3003.	3.5	62
48	Remodeling of Three-Dimensional Organization of the Nucleus during Terminal Keratinocyte Differentiation in the Epidermis. <i>Journal of Investigative Dermatology</i> , 2013, 133, 2191-2201.	0.3	60
49	A Role for p75 Neurotrophin Receptor in the Control of Hair Follicle Morphogenesis. <i>Developmental Biology</i> , 1999, 216, 135-153.	0.9	59
50	Stress and the Hair Follicle. <i>American Journal of Pathology</i> , 2003, 162, 709-712.	1.9	59
51	Distinct Patterns of NCAM Expression Are Associated with Defined Stages of Murine Hair Follicle Morphogenesis and Regression. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 1401-1409.	1.3	57
52	Cbx4 maintains the epithelial lineage identity and cell proliferation in the developing stratified epithelium. <i>Journal of Cell Biology</i> , 2016, 212, 77-89.	2.3	57
53	Neurotrophin-3 Involvement in the Regulation of Hair Follicle Morphogenesis. <i>Journal of Investigative Dermatology</i> , 1998, 111, 279-285.	0.3	55
54	Fas and c-kit are Involved in the Control of Hair Follicle Melanocyte Apoptosis and Migration in Chemotherapy-Induced Hair Loss. <i>Journal of Investigative Dermatology</i> , 2003, 120, 27-35.	0.3	53

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55	New Roles for Glial Cell Line-Derived Neurotrophic Factor and Neurturin. <i>American Journal of Pathology</i> , 2000, 156, 1041-1053.	1.9	50
56	Kit Is Expressed by Epithelial Cells In Vivo. <i>Journal of Investigative Dermatology</i> , 2003, 121, 976-984.	0.3	50
57	Hair cycle-dependent production of ACTH in mouse skin. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1448, 147-152.	1.9	48
58	Nerve Growth Factor Partially Recovers Inflamed Skin from Stress-Induced Worsening in Allergic Inflammation. <i>Journal of Investigative Dermatology</i> , 2011, 131, 735-743.	0.3	47
59	The Epigenetic Regulation of Wound Healing. <i>Advances in Wound Care</i> , 2014, 3, 468-475.	2.6	47
60	Intact hair follicle innervation is not essential for anagen induction and development. <i>Archives of Dermatological Research</i> , 1998, 290, 574-578.	1.1	43
61	Epigenetic Regulation of Cellular Senescence. <i>Cells</i> , 2022, 11, 672.	1.8	43
62	Involvement of the Edar Signaling in the Control of Hair Follicle Involution (Catagen). <i>American Journal of Pathology</i> , 2006, 169, 2075-2084.	1.9	42
63	Modulations of nerve growth factor and Bcl-2 in ultraviolet-irradiated human epidermis. <i>Journal of Cutaneous Pathology</i> , 2003, 30, 351-357.	0.7	40
64	Changes in Different Melanocyte Populations During Hair Follicle Involution (Catagen). <i>Journal of Investigative Dermatology</i> , 2005, 125, 1259-1267.	0.3	39
65	Bone Morphogenetic Protein Antagonist Noggin Promotes Skin Tumorigenesis via Stimulation of the Wnt and Shh Signaling Pathways. <i>American Journal of Pathology</i> , 2009, 175, 1303-1314.	1.9	37
66	Fas-Deficient C3.MRL-Tnfrsf6lpr Mice and Fas Ligand-Deficient C3H/HeJ-Tnfsf6gld Mice Are Relatively Resistant to the Induction of Alopecia Areata by Grafting of Alopecia Areata-Affected Skin from C3H/HeJ Mice. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2003, 8, 104-108.	0.8	36
67	5C analysis of the Epidermal Differentiation Complex locus reveals distinct chromatin interaction networks between gene-rich and gene-poor TADs in skin epithelial cells. <i>PLoS Genetics</i> , 2017, 13, e1006966.	1.5	33
68	Distinct Roles for Nerve Growth Factor and Brain-Derived Neurotrophic Factor in Controlling the Rate of Hair Follicle Morphogenesis. <i>Journal of Investigative Dermatology</i> , 2000, 114, 314-320.	0.3	32
69	Fas Signaling Is Involved in the Control of Hair Follicle Response to Chemotherapy. <i>Cancer Research</i> , 2004, 64, 6266-6270.	0.4	32
70	Neural Wiskott-Aldrich syndrome protein modulates Wnt signaling and is required for hair follicle cycling in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 446-456.	3.9	31
71	Neurotrophin-3 regulates mast cell functions in neonatal mouse skin. <i>Experimental Dermatology</i> , 2004, 13, 273-281.	1.4	29
72	Intercellular Adhesion Molecule-1 and Hair Follicle Regression. <i>Journal of Histochemistry and Cytochemistry</i> , 2000, 48, 557-568.	1.3	28

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73	BDNF overexpression induces differential increases among subsets of sympathetic innervation in murine back skin. <i>European Journal of Neuroscience</i> , 1998, 10, 3276-3283.	1.2	26
74	BMP Signaling Induces Cell-Type-Specific Changes in Gene Expression Programs of Human Keratinocytes and Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2010, 130, 398-404.	0.3	26
75	p63 Transcription Factor Regulates Nuclear Shape and Expression of Nuclear Envelope-Associated Genes in Epidermal Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2017, 137, 2157-2167.	0.3	25
76	Hair cycle-dependent changes in mast cell histochemistry in murine skin. <i>Archives of Dermatological Research</i> , 1995, 287, 683-686.	1.1	23
77	p75 Neurotrophin Receptor Antagonist Retards Apoptosis-driven Hair Follicle Involution (Catagen). <i>Journal of Investigative Dermatology</i> , 2003, 120, 168-169.	0.3	23
78	Neurotrophins and Their Role in Pathogenesis of Alopecia Areata. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2003, 8, 195-198.	0.8	22
79	Matrix Metalloproteinase-9 Is Involved in the Regulation of Hair Canal Formation. <i>Journal of Investigative Dermatology</i> , 2011, 131, 257-260.	0.3	19
80	The Molecular Revolution in Cutaneous Biology: Chromosomal Territories, Higher-Order Chromatin Remodeling, and the Control of Gene Expression in Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2017, 137, e93-e99.	0.3	19
81	Oligonucleotide treatment increases eumelanogenesis, hair pigmentation and melanocortin-1 receptor expression in the hair follicle. <i>Experimental Dermatology</i> , 2007, 16, 671-677.	1.4	15
82	Integration of the Transcription Factor-Regulated and Epigenetic Mechanisms in the Control of Keratinocyte Differentiation. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2015, 17, 30-32.	0.8	15
83	Overexpression of Brain-Derived Neurotrophic Factor Increases Merkel Cell Number in Murine Skin. <i>Journal of Investigative Dermatology</i> , 1999, 113, 691-692.	0.3	14
84	Retardation of Hair Follicle Development by the Deletion of TrkC, High-Affinity Neurotrophin-3 Receptor. <i>Journal of Investigative Dermatology</i> , 1999, 113, 425-427.	0.3	13
85	Complex Changes in the Apoptotic and Cell Differentiation Programs during Initiation of the Hair Follicle Response to Chemotherapy. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2873-2882.	0.3	12
86	Interplay of MicroRNA-21 and SATB1 in Epidermal Keratinocytes during Skin Aging. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2538-2542.e2.	0.3	11
87	ACTH Production in C57BL/6 Mouse Skin. <i>Annals of the New York Academy of Sciences</i> , 1999, 885, 448-450.	1.8	10
88	Epigenetic Regulation of Epidermal Development and Keratinocyte Differentiation. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2015, 17, 18-19.	0.8	9
89	Repressing the Keratinocyte Genome: How the Polycomb Complex Subunits Operate in Concert to Control Skin and Hair Follicle Development. <i>Journal of Investigative Dermatology</i> , 2016, 136, 1538-1540.	0.3	9
90	p63 and Brg1 control developmentally regulated higher-order chromatin remodelling at the epidermal differentiation complex locus in epidermal progenitor cells. <i>Development (Cambridge)</i> , 2014, 141, 3437-3437.	1.2	6

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91	Modeling Chemotherapy-Induced Hair Loss: From Experimental Propositions toward Clinical Reality. <i>Journal of Investigative Dermatology</i> , 2016, 136, 557-559.	0.3	6
92	Skin Aging in Long-Lived Naked Mole-Rats Is Accompanied by Increased Expression of Longevity-Associated and Tumor Suppressor Genes. <i>Journal of Investigative Dermatology</i> , 2022, 142, 2853-2863.e4.	0.3	5
93	Neurotrophins in Autoimmune Diseases: Possible Implications for Alopecia Areata. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2005, 10, 282.	0.8	2
94	Second International Symposium "Epigenetic Regulation of Skin Regeneration and Aging: From Chromatin Biology towards the Understanding of Epigenetic Basis of Skin Diseases. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1604-1608.	0.3	2
95	Histone Deacetylases in the Control of Epidermal Homeostasis: From Chromatin Biology toward Therapy. <i>Journal of Investigative Dermatology</i> , 2022, 142, 12-14.	0.3	1
96	Role of nerve growth factor in a mouse model of allergic airway inflammation and asthma. , 1998, 28, 3240.		1
97	All Roads Go to the Nucleus: Integration of Signaling/Transcription Factor-Mediated and Epigenetic Regulatory Mechanisms in the Control of Skin Development and Regeneration. <i>Pancreatic Islet Biology</i> , 2018, , 1-55.	0.1	0
98	Cbx4 regulates the proliferation of thymic epithelial cells and thymus function. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	1.2	0
99	Embryology of the Pilosebaceous Unit. , 2014, , 9-17.		0