Vladimir A Botchkarev

List of Publications by Year
in descending order

99 papers	7,738 citations	34105 52 h-index	51608 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. Nature Cell Biology, 1999, 1, 158-164.	10.3	360
2	Control of murine hair follicle regression (catagen) by TGFâ€ˆ1in vivo. FASEB Journal, 2000, 14, 752-760.	0.5	301
3	Cathepsin L deficiency as molecular defect offurless:hyperproliferation of keratinocytes and pertubation of hair follicle cycling. FASEB Journal, 2000, 14, 2075-2086.	0.5	290
4	Molecular Control of Epithelialâ€“Mesenchymal Interactions During Hair Follicle Cycling. Journal of Investigative Dermatology Symposium Proceedings, 2003, 8, 46-55.	0.8	268
5	Abundant Production of Brain-Derived Neurotrophic Factor by Adult Visceral Epithelia. American Journal of Pathology, 1999, 155, 1183-1193.	3.8	245
6	Role of nerve growth factor in a mouse model of allergic airway inflammation and asthma. European Journal of Immunology, 1998, 28, 3240-3251.	2.9	231
7	Pathobiology of chemotherapy-induced hair loss. Lancet Oncology, The, 2013, 14, e50-e59.	10.7	222
8	SCF/câ€kit signaling is required for cyclic regeneration of the hair pigmentation unit. FASEB Journal, 2001, 15, 645-658.	0.5	219
9	Noggin is required for induction of the hair follicle growth phase in postnatal skin. FASEB Journal, 2001, 15, 2205-2214.	0.5	207
10	BMP signaling in the control of skin development and hair follicle growth. Differentiation, 2004, 72, 512-526.	1.9	173
11	Bone Morphogenetic Proteins and Their Antagonists in Skin and Hair Follicle Biology. Journal of Investigative Dermatology, 2003, 120, 36-47.	0.7	164
12	Integration of Notch 1 and Calcineurin/NFAT Signaling Pathways in Keratinocyte Growth and Differentiation Control. Developmental Cell, 2005, 8, 665-676.	7.0	163
13	p63 regulates Satb1 to control tissue-specific chromatin remodeling during development of the epidermis. Journal of Cell Biology, 2011, 194, 825-839.	5.2	160
14	Neurotrophins in Skin Biology and Pathology. Journal of Investigative Dermatology, 2006, 126, 1719-1727.	0.7	154
15	Molecular biology of hair morphogenesis: Development and cycling. The Journal of Experimental Zoology, 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. American Journal of Pathology, 2002, 160, 1807-1821.	3.8	142
17	Modulation of BMP Signaling by Noggin is Required for Induction of the Secondary (Nontylotrich) Hair Follicles. Journal of Investigative Dermatology, 2002, 118, 3-10.	0.7	134
18	Cutaneous Expression of CRH and CRHâ€R: Is There a â€œSkin Stress Response System?â€• Annals of the New York Academy of Sciences, 1999, 885, 287-311.	3.8	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 Apotosis During Hair Follicle Regression (Catagen)?. Journal of Investigative Dermatology, 1998, 111, 941-947.	0.7	126
21	Genome organizing function of SATB1 in tumor progression. Seminars in Cancer Biology, 2013, 23, 72-79.	9.6	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.	1.9	114
23	Epigenetic Regulation of Gene Expression in Keratinocytes. Journal of Investigative Dermatology, 2012, 132, 2505-2521.	0.7	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.	2.5	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.	0.7	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.	0.7	96
29	p53/p63/p73 in the Epidermis in Health and Disease. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a015248-a015248.	6.2	96
30	A role for p75 neurotrophin receptor in the control of apoptosisâ€driven hair follicle regression. FASEB Journal, 2000, 14, 1931-1942.	0.5	94
31	A new role for neurotrophins: involvement of brainâ€derived neurotrophic factor and neurotrophinâ€4 in hair cycle control. FASEB Journal, 1999, 13, 395-410.	0.5	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.	0.7	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.	7.1	90
34	Epithelial growth control by neurotrophins: leads and lessons from the hair follicle. Progress in Brain Research, 2004, 146, 493-513.	1.4	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.	2.1	85
36	Chronobiology of the Hair Follicle: Hunting the â€œHair Cycle Clockâ€. Journal of Investigative Dermatology Symposium Proceedings, 1999, 4, 338-345.	0.8	82

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37	A New Role for Neurotrophin-3. American Journal of Pathology, 1998, 153, 785-799.	3.8	81
38	p63 and Brg1 control developmentally regulated higher-order chromatin remodelling at the epidermal differentiation complex locus in epidermal progenitor cells. Development (Cambridge), 2014, 141, 101-111.	2.5	81
39	Developmental timing of hair follicle and dorsal skin innervation in mice. Journal of Comparative Neurology, 2002, 448, 28-52.	1.6	77
40	Molecular Mechanisms of Chemotherapy-Induced Hair Loss. Journal of Investigative Dermatology Symposium Proceedings, 2003, 8, 72-75.	0.8	75
41	p53 Involvement in the Control of Murine Hair Follicle Regression. American Journal of Pathology, 2001, 158, 1913-1919.	3.8	73
42	Edar Signaling in the Control of Hair Follicle Development. Journal of Investigative Dermatology Symposium Proceedings, 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. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 93-98.	7.1	68
44	Fate of Melanocytes During Development of the Hair Follicle Pigmentary Unit. Journal of Investigative Dermatology Symposium Proceedings, 2003, 8, 76-79.	0.8	65
45	Cbx4 regulates the proliferation of thymic epithelial cells and thymus function. Development (Cambridge), 2013, 140, 780-788.	2.5	64
46	The Skin POMC System (SPS): Leads and Lessons from the Hair Follicle. Annals of the New York Academy of Sciences, 1999, 885, 350-363.	3.8	63
47	Noggin overexpression inhibits eyelid opening by altering epidermal apoptosis and differentiation. EMBO Journal, 2003, 22, 2992-3003.	7.8	62
48	Remodeling of Three-Dimensional Organization of the Nucleus during Terminal Keratinocyte Differentiation in the Epidermis. Journal of Investigative Dermatology, 2013, 133, 2191-2201.	0.7	60
49	A Role for p75 Neurotrophin Receptor in the Control of Hair Follicle Morphogenesis. Developmental Biology, 1999, 216, 135-153.	2.0	59
50	Stress and the Hair Follicle. American Journal of Pathology, 2003, 162, 709-712.	3.8	59
51	Distinct Patterns of NCAM Expression Are Associated with Defined Stages of Murine Hair Follicle Morphogenesis and Regression. Journal of Histochemistry and Cytochemistry, 1998, 46, 1401-1409.	2.5	57
52	Cbx4 maintains the epithelial lineage identity and cell proliferation in the developing stratified epithelium. Journal of Cell Biology, 2016, 212, 77-89.	5.2	57
53	Neurotrophin-3 Involvement in the Regulation of Hair Follicle Morphogenesis. Journal of Investigative Dermatology, 1998, 111, 279-285.	0.7	55
54	Fas and c-kit are Involved in the Control of Hair Follicle Melanocyte Apoptosis and Migration in Chemotherapy-Induced Hair Loss. Journal of Investigative Dermatology, 2003, 120, 27-35.	0.7	53

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55	New Roles for Glial Cell Line-Derived Neurotrophic Factor and Neurturin. American Journal of Pathology, 2000, 156, 1041-1053.	3.8	50
56	Kit Is Expressed by Epithelial Cells In Vivo. Journal of Investigative Dermatology, 2003, 121, 976-984.	0.7	50
57	Hair cycle-dependent production of ACTH in mouse skin. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1448, 147-152.	4.1	48
58	Nerve Growth Factor Partially Recovers Inflamed Skin from Stress-Induced Worsening in Allergic Inflammation. Journal of Investigative Dermatology, 2011, 131, 735-743.	0.7	47
59	The Epigenetic Regulation of Wound Healing. Advances in Wound Care, 2014, 3, 468-475.	5.1	47
60	Intact hair follicle innervation is not essential for anagen induction and development. Archives of Dermatological Research, 1998, 290, 574-578.	1.9	43
61	Epigenetic Regulation of Cellular Senescence. Cells, 2022, 11, 672.	4.1	43
62	Involvement of the Edar Signaling in the Control of Hair Follicle Involution (Catagen). American Journal of Pathology, 2006, 169, 2075-2084.	3.8	42
63	Modulations of nerve growth factor and Bcl-2 in ultraviolet-irradiated human epidermis. Journal of Cutaneous Pathology, 2003, 30, 351-357.	1.3	40
64	Changes in Different Melanocyte Populations During Hair Follicle Involution (Catagen). Journal of Investigative Dermatology, 2005, 125, 1259-1267.	0.7	39
65	Bone Morphogenetic Protein Antagonist Noggin Promotes Skin Tumorigenesis via Stimulation of the Wnt and Shh Signaling Pathways. American Journal of Pathology, 2009, 175, 1303-1314.	3.8	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. Journal of Investigative Dermatology Symposium Proceedings, 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. PLoS Genetics, 2017, 13, e1006966.	3.5	33
68	Distinct Roles for Nerve Growth Factor and Brain-Derived Neurotrophic Factor in Controlling the Rate of Hair Follicle Morphogenesis. Journal of Investigative Dermatology, 2000, 114, 314-320.	0.7	32
69	Fas Signaling Is Involved in the Control of Hair Follicle Response to Chemotherapy. Cancer Research, 2004, 64, 6266-6270.	0.9	32
70	Neural Wiskott-Aldrich syndrome protein modulates Wnt signaling and is required for hair follicle cycling in mice. Journal of Clinical Investigation, 2010, 120, 446-456.	8.2	31
71	Neurotrophin-3 regulates mast cell functions in neonatal mouse skin. Experimental Dermatology, 2004, 13, 273-281.	2.9	29
72	Intercellular Adhesion Molecule-1 and Hair Follicle Regression. Journal of Histochemistry and Cytochemistry, 2000, 48, 557-568.	2.5	28

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73	BDNF overexpression induces differential increases among subsets of sympathetic innervation in murine back skin. European Journal of Neuroscience, 1998, 10, 3276-3283.	2.6	26
74	BMP Signaling Induces Cell-Type-Specific Changes in Gene Expression Programs of Human Keratinocytes and Fibroblasts. Journal of Investigative Dermatology, 2010, 130, 398-404.	0.7	26
75	p63 Transcription Factor Regulates NuclearÂShape and Expression of NuclearÂEnvelope-Associated Genes in Epidermal Keratinocytes. Journal of Investigative Dermatology, 2017, 137, 2157-2167.	0.7	25
76	Hair cycle-dependent changes in mast cell histochemistry in murine skin. Archives of Dermatological Research, 1995, 287, 683-686.	1.9	23
77	p75 Neurotrophin Receptor Antagonist Retards Apoptosis-driven Hair Follicle Involution (Catagen). Journal of Investigative Dermatology, 2003, 120, 168-169.	0.7	23
78	Neurotrophins and Their Role in Pathogenesis of Alopecia Areata. Journal of Investigative Dermatology Symposium Proceedings, 2003, 8, 195-198.	0.8	22
79	Matrix Metalloproteinase-9 Is Involved in the Regulation of Hair Canal Formation. Journal of Investigative Dermatology, 2011, 131, 257-260.	0.7	19
80	The Molecular Revolution in Cutaneous Biology: Chromosomal Territories, Higher-Order Chromatin Remodeling, and the Control ofÂGene Expression in Keratinocytes. Journal of Investigative Dermatology, 2017, 137, e93-e99.	0.7	19
81	Oligonucleotide treatment increases eumelanogenesis, hair pigmentation and melanocortin-1 receptor expression in the hair follicle. Experimental Dermatology, 2007, 16, 671-677.	2.9	15
82	Integration of the Transcription Factor-Regulated and Epigenetic Mechanisms in the Control of Keratinocyte Differentiation. Journal of Investigative Dermatology Symposium Proceedings, 2015, 17, 30-32.	0.8	15
83	Overexpression of Brain-Derived Neurotrophic Factor Increases Merkel Cell Number in Murine Skin. Journal of Investigative Dermatology, 1999, 113, 691-692.	0.7	14
84	Retardation of Hair Follicle Development by the Deletion of TrkC, High-Affinity Neurotrophin-3 Receptor. Journal of Investigative Dermatology, 1999, 113, 425-427.	0.7	13
85	Complex Changes in the Apoptotic and Cell Differentiation Programs during Initiation of the Hair Follicle Response to Chemotherapy. Journal of Investigative Dermatology, 2014, 134, 2873-2882.	0.7	12
86	Interplay of MicroRNA-21 and SATB1 in Epidermal Keratinocytes during Skin Aging. Journal of Investigative Dermatology, 2019, 139, 2538-2542.e2.	0.7	11
87	ACTH Production in C57BL/6 Mouse Skin. Annals of the New York Academy of Sciences, 1999, 885, 448-450.	3.8	10
88	Epigenetic Regulation of Epidermal Development and Keratinocyte Differentiation. Journal of Investigative Dermatology Symposium Proceedings, 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. Journal of Investigative Dermatology, 2016, 136, 1538-1540.	0.7	9
90	p63 and Brg1 control developmentally regulated higher-order chromatin remodelling at the epidermal differentiation complex locus in epidermal progenitor cells. Development (Cambridge), 2014, 141, 3437-3437.	2.5	6

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91	Modeling Chemotherapy-Induced Hair Loss: From Experimental Propositions toward Clinical Reality. Journal of Investigative Dermatology, 2016, 136, 557-559.	0.7	6
92	Skin Aging in Long-Lived Naked Mole-Rats Is Accompanied by Increased Expression of Longevity-Associated and Tumor Suppressor Genes. Journal of Investigative Dermatology, 2022, 142, 2853-2863.e4.	0.7	5
93	Neurotrophins in Autoimmune Diseases: Possible Implications for Alopecia Areata. Journal of Investigative Dermatology Symposium Proceedings, 2005, 10, 282.	0.8	2
94	Second International Symposiumâ€"Epigenetic Regulation of Skin Regeneration and Aging: FromÂChromatin Biology towards the Understanding ofÂEpigenetic Basis of Skin Diseases. Journal of Investigative Dermatology, 2017, 137, 1604-1608.	0.7	2
95	Histone Deacetylases in the Control of Epidermal Homeostasis: From Chromatin Biology toward Therapy. Journal of Investigative Dermatology, 2022, 142, 12-14.	0.7	1
96	Role of nerve growth factor in a mouse model of allergic airway inflammation and asthma. European Journal of Immunology, 1998, 28, 3240-3251.	2.9	1
97	All Roads Go to the Nucleus: Integration of Signaling/Transcription Factor-Mediated and Epigenetic Regulatory Mechanisms in theÂControl of Skin Development and Regeneration. Pancreatic Islet Biology, 2018, , 1-55.	0.3	0
98	Cbx4 regulates the proliferation of thymic epithelial cells and thymus function. Journal of Cell Science, 2013, 126, e1-e1.	2.0	0
99	Embryology of the Pilosebaceous Unit. , 2014, , 9-17.		0