

Maksim V Plikus

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

10,157
citations

61945

43
h-index

42364

92
g-index

107
all docs

107
docs citations

107
times ranked

10392
citing authors

#	ARTICLE	IF	CITATIONS
1	Inference and analysis of cell-cell communication using CellChat. <i>Nature Communications</i> , 2021, 12, 1088.	5.8	2,174
2	Cyclic dermal BMP signalling regulates stem cell activation during hair regeneration. <i>Nature</i> , 2008, 451, 340-344.	13.7	643
3	Regeneration of fat cells from myofibroblasts during wound healing. <i>Science</i> , 2017, 355, 748-752.	6.0	434
4	Dermal adipocytes protect against invasive <i>Staphylococcus aureus</i> skin infection. <i>Science</i> , 2015, 347, 67-71.	6.0	368
5	Single-cell analysis reveals fibroblast heterogeneity and myeloid-derived adipocyte progenitors in murine skin wounds. <i>Nature Communications</i> , 2019, 10, 650.	5.8	345
6	Fibroblasts: Origins, definitions, and functions in health and disease. <i>Cell</i> , 2021, 184, 3852-3872.	13.5	340
7	Anatomical, Physiological, and Functional Diversity of Adipose Tissue. <i>Cell Metabolism</i> , 2018, 27, 68-83.	7.2	298
8	Pharmacological activation of REV-ERBs is lethal in cancer and oncogene-induced senescence. <i>Nature</i> , 2018, 553, 351-355.	13.7	273
9	Fgf9 from dermal $\gamma\delta$ T cells induces hair follicle neogenesis after wounding. <i>Nature Medicine</i> , 2013, 19, 916-923.	15.2	272
10	Activating an adaptive immune response from a hydrogel scaffold imparts regenerative wound healing. <i>Nature Materials</i> , 2021, 20, 560-569.	13.3	260
11	A Guide to Studying Human Hair Follicle Cycling In Vivo. <i>Journal of Investigative Dermatology</i> , 2016, 136, 34-44.	0.3	219
12	Organ-Level Quorum Sensing Directs Regeneration in Hair Stem Cell Populations. <i>Cell</i> , 2015, 161, 277-290.	13.5	195
13	An Integrated Gene Regulatory Network Controls Stem Cell Proliferation in Teeth. <i>PLoS Biology</i> , 2007, 5, e159.	2.6	192
14	Self-Organizing and Stochastic Behaviors During the Regeneration of Hair Stem Cells. <i>Science</i> , 2011, 332, 586-589.	6.0	186
15	Hedgehog stimulates hair follicle neogenesis by creating inductive dermis during murine skin wound healing. <i>Nature Communications</i> , 2018, 9, 4903.	5.8	182
16	Evo-Devo of amniote integuments and appendages.. <i>International Journal of Developmental Biology</i> , 2004, 48, 249-270.	0.3	180
17	Epithelial stem cells and implications for wound repair. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 946-953.	2.3	170
18	Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. <i>Evolution & Development</i> , 2005, 7, 440-457.	1.1	159

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19	MiR-31 promotes mammary stem cell expansion and breast tumorigenesis by suppressing Wnt signaling antagonists. <i>Nature Communications</i> , 2017, 8, 1036.	5.8	143
20	'Cyclic alopecia' in <i>Msx2</i> mutants: defects in hair cycling and hair shaft differentiation. <i>Development (Cambridge)</i> , 2003, 130, 379-389.	1.2	141
21	MicroRNA-31 Reduces Inflammatory Signaling and Promotes Regeneration in Colon Epithelium, and Delivery of Mimics in Microspheres Reduces Colitis in Mice. <i>Gastroenterology</i> , 2019, 156, 2281-2296.e6.	0.6	140
22	The Circadian Clock in Skin. <i>Journal of Biological Rhythms</i> , 2015, 30, 163-182.	1.4	135
23	Complex Hair Cycle Domain Patterns and Regenerative Hair Waves in Living Rodents. <i>Journal of Investigative Dermatology</i> , 2008, 128, 1071-1080.	0.3	130
24	Morpho-Regulation of Ectodermal Organs. <i>American Journal of Pathology</i> , 2004, 164, 1099-1114.	1.9	127
25	YAP-mediated mechanotransduction tunes the macrophage inflammatory response. <i>Science Advances</i> , 2020, 6, .	4.7	127
26	Resting no more: redefining telogen, the maintenance stage of the hair growth cycle. <i>Biological Reviews</i> , 2015, 90, 1179-1196.	4.7	125
27	Local circadian clock gates cell cycle progression of transient amplifying cells during regenerative hair cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2106-15.	3.3	119
28	Evidence for the involvement of Fibroblast Growth Factor 10 in lipofibroblast formation during embryonic lung development. <i>Development (Cambridge)</i> , 2015, 142, 4139-50.	1.2	100
29	Evo-Devo of amniote integuments and appendages. <i>International Journal of Developmental Biology</i> , 2004, 48, 249-70.	0.3	100
30	Regenerative Hair Waves in Aging Mice and Extra-Follicular Modulators Follistatin, <i>Dkk1</i> , and <i>Sfrp4</i> . <i>Journal of Investigative Dermatology</i> , 2014, 134, 2086-2096.	0.3	80
31	MiR-31 Mediates Inflammatory Signaling to Promote Re-Epithelialization during Skin Wound Healing. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2253-2263.	0.3	78
32	Age-Related Loss of Innate Immune Antimicrobial Function of Dermal Fat Is Mediated by Transforming Growth Factor Beta. <i>Immunity</i> , 2019, 50, 121-136.e5.	6.6	75
33	New Activators and Inhibitors in the Hair Cycle Clock: Targeting Stem Cells' State of Competence. <i>Journal of Investigative Dermatology</i> , 2012, 132, 1321-1324.	0.3	74
34	The Modulatable Stem Cell Niche: Tissue Interactions during Hair and Feather Follicle Regeneration. <i>Journal of Molecular Biology</i> , 2016, 428, 1423-1440.	2.0	71
35	Emerging nonmetabolic functions of skin fat. <i>Nature Reviews Endocrinology</i> , 2018, 14, 163-173.	4.3	67
36	Analyses of regenerative wave patterns in adult hair follicle populations reveal macro-environmental regulation of stem cell activity. <i>International Journal of Developmental Biology</i> , 2009, 53, 857-868.	0.3	61

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37	External light activates hair follicle stem cells through eyes via an ipRGCâ€“SCNâ€“sympathetic neural pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6880-E6889.	3.3	60
38	Phagocytosis of Wnt inhibitor SFRP4 by late wound macrophages drives chronic Wnt activity for fibrotic skin healing. <i>Science Advances</i> , 2020, 6, eaay3704.	4.7	58
39	Principles and mechanisms of regeneration in the mouse model for woundâ€“induced hair follicle neogenesis. <i>Regeneration (Oxford, England)</i> , 2015, 2, 169-181.	6.3	57
40	A multi-scale model for hair follicles reveals heterogeneous domains driving rapid spatiotemporal hair growth patterning. <i>ELife</i> , 2017, 6, .	2.8	57
41	Stress responsive miR-31 is a major modulator of mouse intestinal stem cells during regeneration and tumorigenesis. <i>ELife</i> , 2017, 6, .	2.8	54
42	PubFocus: semantic MEDLINE/PubMed citations analytics through integration of controlled biomedical dictionaries and ranking algorithm. <i>BMC Bioinformatics</i> , 2006, 7, 424.	1.2	53
43	Epigenetic control of skin and hair regeneration after wounding. <i>Experimental Dermatology</i> , 2015, 24, 167-170.	1.4	47
44	Macroenvironmental Regulation of Hair Cycling and Collective Regenerative Behavior. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014, 4, a015198-a015198.	2.9	45
45	Organotypic Skin Culture. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1-4.	0.3	44
46	Mucoadhesive-to-penetrating controllable peptosomes-in-microspheres co-loaded with anti-miR-31 oligonucleotide and Curcumin for targeted colorectal cancer therapy. <i>Theranostics</i> , 2020, 10, 3594-3611.	4.6	40
47	Engineering Stem Cells into Organs: Topobiological Transformations Demonstrated by Beak, Feather, and Other Ectodermal Organ Morphogenesis. <i>Current Topics in Developmental Biology</i> , 2005, 72, 237-274.	1.0	39
48	The Role of Symmetric Stem Cell Divisions in Tissue Homeostasis. <i>PLoS Computational Biology</i> , 2015, 11, e1004629.	1.5	39
49	Cycling Stem Cells Are Radioresistant and Regenerate the Intestine. <i>Cell Reports</i> , 2020, 32, 107952.	2.9	37
50	Msi2 Maintains Quiescent State of Hair Follicle Stem Cells by Directly Repressing the Hh Signaling Pathway. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1015-1024.	0.3	36
51	Mobilizing Transit-Amplifying Cell-Derived Ectopic Progenitors Prevents Hair Loss from Chemotherapy or Radiation Therapy. <i>Cancer Research</i> , 2017, 77, 6083-6096.	0.4	36
52	Dermal Adipose Tissue Secretes HGF to Promote Human Hair Growth and Pigmentation. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1633-1645.e13.	0.3	35
53	Secreted stromal protein ISLR promotes intestinal regeneration by suppressing epithelial Hippo signaling. <i>EMBO Journal</i> , 2020, 39, e103255.	3.5	34
54	An Ovol2â€“Zeb1 transcriptional circuit regulates epithelial directional migration and proliferation. <i>EMBO Reports</i> , 2019, 20, .	2.0	32

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55	Hair Follicle Signaling Networks: A Dermal Papilla-Centric Approach. <i>Journal of Investigative Dermatology</i> , 2013, 133, 2306-2308.	0.3	30
56	Genomic and anatomical comparisons of skin support independent adaptation to life in water by cetaceans and hippos. <i>Current Biology</i> , 2021, 31, 2124-2139.e3.	1.8	30
57	CD133 Expression Correlates with Membrane Beta-Catenin and E-Cadherin Loss from Human Hair Follicle Placodes during Morphogenesis. <i>Journal of Investigative Dermatology</i> , 2015, 135, 45-55.	0.3	29
58	Inducing hair follicle neogenesis with secreted proteins enriched in embryonic skin. <i>Biomaterials</i> , 2018, 167, 121-131.	5.7	29
59	Distinct mechanisms underlie pattern formation in the skin and skin appendages. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2006, 78, 280-291.	3.6	26
60	Accelerated closure of skin wounds in mice deficient in the homeobox gene <i>Msx2</i> . <i>Wound Repair and Regeneration</i> , 2009, 17, 639-648.	1.5	25
61	Diet-induced obesity promotes infection by impairment of the innate antimicrobial defense function of dermal adipocyte progenitors. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	25
62	Hedgehog signaling reprograms hair follicle niche fibroblasts to a hyper-activated state. <i>Developmental Cell</i> , 2022, 57, 1758-1775.e7.	3.1	25
63	Wound Regeneration Deficit in Rats Correlates with Low Morphogenetic Potential and Distinct Transcriptome Profile of Epidermis. <i>Journal of Investigative Dermatology</i> , 2018, 138, 1409-1419.	0.3	24
64	<i>Msx2</i> Supports Epidermal Competency during Wound-Induced Hair Follicle Neogenesis. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2041-2050.	0.3	23
65	High-resolution infrared imaging of biological samples with third-order sum-frequency generation microscopy. <i>Biomedical Optics Express</i> , 2018, 9, 4807.	1.5	23
66	Modelling Hair Follicle Growth Dynamics as an Excitable Medium. <i>PLoS Computational Biology</i> , 2012, 8, e1002804.	1.5	22
67	Gene loss in keratinization programs accompanies adaptation of cetacean skin to aquatic lifestyle. <i>Experimental Dermatology</i> , 2015, 24, 572-573.	1.4	19
68	Making Waves with Hairs. <i>Journal of Investigative Dermatology</i> , 2004, 122, vii-ix.	0.3	18
69	Epithelial Migration and Non-adhesive Periderm Are Required for Digit Separation during Mammalian Development. <i>Developmental Cell</i> , 2020, 52, 764-778.e4.	3.1	17
70	The <i>Msi1</i> -mTOR pathway drives the pathogenesis of mammary and extramammary Paget's disease. <i>Cell Research</i> , 2020, 30, 854-872.	5.7	17
71	A multiscale hybrid mathematical model of epidermal-dermal interactions during skin wound healing. <i>Experimental Dermatology</i> , 2019, 28, 493-502.	1.4	16
72	MIR-22 modulates brown adipocyte thermogenesis by synergistically activating the glycolytic and mTORC1 signaling pathways. <i>Theranostics</i> , 2021, 11, 3607-3623.	4.6	16

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73	Msi1 promotes breast cancer metastasis by regulating invadopodia-mediated extracellular matrix degradation via the Timp3-Mmp9 pathway. <i>Oncogene</i> , 2021, 40, 4832-4845.	2.6	16
74	Lepr+ mesenchymal cells sense diet to modulate intestinal stem/progenitor cells via Leptin-Igf1 axis. <i>Cell Research</i> , 2022, 32, 670-686.	5.7	14
75	Skin as a window to body-clock time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12095-12097.	3.3	12
76	At the crossroads of 2 alopecias: Androgenetic alopecia pattern of hair regrowth in patients with alopecia areata treated with oral Janus kinase inhibitors. <i>JAAD Case Reports</i> , 2020, 6, 444-446.	0.4	12
77	GRHL3 activates FSCN1 to relax cell-cell adhesions between migrating keratinocytes during wound reepithelialization. <i>JCI Insight</i> , 2021, 6, .	2.3	8
78	Deadly hairs, lethal feathers – convergent evolution of poisonous integument in mammals and birds. <i>Experimental Dermatology</i> , 2014, 23, 466-468.	1.4	7
79	Near Equilibrium Calculus of Stem Cells in Application to the Airway Epithelium Lineage. <i>PLoS Computational Biology</i> , 2016, 12, e1004990.	1.5	7
80	Gli-fully Halting the Progression of Fibrosis. <i>Cell Stem Cell</i> , 2017, 20, 735-736.	5.2	7
81	At the dawn of hair research – testing the limits of hair follicle regeneration. <i>Experimental Dermatology</i> , 2014, 23, 314-315.	1.4	6
82	Regenerative metamorphosis in hairs and feathers: follicle as a programmable biological printer. <i>Experimental Dermatology</i> , 2015, 24, 262-264.	1.4	6
83	Estrogen modulates mesenchymal-epidermal interactions in the adult nipple. <i>Development (Cambridge)</i> , 2017, 144, 1498-1509.	1.2	4
84	Fostering a healthy culture: Biological relevance of <i>in vitro</i> and <i>ex vivo</i> skin models. <i>Experimental Dermatology</i> , 2021, 30, 298-303.	1.4	4
85	Moving On after Trauma: Fibroblasts Thrive in the Right Environment. <i>Cell Stem Cell</i> , 2020, 27, 349-351.	5.2	3
86	The emerging functions of regulatory <i>scRNA</i> species in skin biology. <i>Experimental Dermatology</i> , 2015, 24, 827-828.	1.4	2
87	Understanding skin morphogenesis across developmental, regenerative and evolutionary levels. <i>Experimental Dermatology</i> , 2019, 28, 327-331.	1.4	2
88	More than just bricks and mortar: Fibroblasts and ECM in skin health and disease. <i>Experimental Dermatology</i> , 2021, 30, 4-9.	1.4	2
89	Dormant <i>Nfatc1</i> reporter-marked basal stem/progenitor cells contribute to mammary lobuloalveoli formation. <i>IScience</i> , 2022, 25, 103982.	1.9	2
90	Equal opportunities in stemness. <i>Nature Cell Biology</i> , 2019, 21, 921-923.	4.6	1

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91	Fibroblasts feel evolutionary pressure to regenerate. <i>Developmental Cell</i> , 2021, 56, 2685-2687.	3.1	1
92	Altered Epithelial-mesenchymal Plasticity as a Result of <i>Ovol2</i> Deletion Minimally Impacts the Self-renewal of Adult Mammary Basal Epithelial Cells. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2021, 26, 377-386.	1.0	1
93	Altered Skin Wound Healing in <i>Homeobox Gene Msx-2</i> Knockout Mice. <i>Wound Repair and Regeneration</i> , 2008, 13, A4-A27.	1.5	0
94	Cutaneous Epithelial Stem Cells. , 2014, , 1581-1594.		0
95	Light-Emitting Hair Follicles: Studying Skin Regeneration With In Vivo Imaging. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1496-1498.	0.3	0
96	Getting ready for the next decade of <i>Experimental Dermatology</i> . <i>Experimental Dermatology</i> , 2019, 28, 1199-1200.	1.4	0
97	Cutaneous epithelial stem cells. , 2020, , 1289-1307.		0
98	Anatomical and functional landscapes of hair regeneration across the body. <i>FASEB Journal</i> , 2018, 32, 232.1.	0.2	0