

Maksim V Plikus

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

5,338
citations

38
h-index

72
g-index

107
ext. papers

7,556
ext. citations

10.9
avg, IF

5.8
L-index

#	Paper	IF	Citations
95	Cyclic dermal BMP signalling regulates stem cell activation during hair regeneration. <i>Nature</i> , 2008 , 451, 340-4	50.4	507
94	Regeneration of fat cells from myofibroblasts during wound healing. <i>Science</i> , 2017 , 355, 748-752	33.3	277
93	Innate immunity. Dermal adipocytes protect against invasive <i>Staphylococcus aureus</i> skin infection. <i>Science</i> , 2015 , 347, 67-71	33.3	248
92	Inference and analysis of cell-cell communication using CellChat. <i>Nature Communications</i> , 2021 , 12, 10881	17.4	229
91	Fgf9 from dermal Γ cells induces hair follicle neogenesis after wounding. <i>Nature Medicine</i> , 2013 , 19, 916-23	50.5	194
90	An integrated gene regulatory network controls stem cell proliferation in teeth. <i>PLoS Biology</i> , 2007 , 5, e159	9.7	175
89	Single-cell analysis reveals fibroblast heterogeneity and myeloid-derived adipocyte progenitors in murine skin wounds. <i>Nature Communications</i> , 2019 , 10, 650	17.4	171
88	Pharmacological activation of REV-ERBs is lethal in cancer and oncogene-induced senescence. <i>Nature</i> , 2018 , 553, 351-355	50.4	163
87	A Guide to Studying Human Hair Follicle Cycling In Vivo. <i>Journal of Investigative Dermatology</i> , 2016 , 136, 34-44	4.3	159
86	Self-organizing and stochastic behaviors during the regeneration of hair stem cells. <i>Science</i> , 2011 , 332, 586-9	33.3	154
85	Evo-Devo of amniote integuments and appendages.. <i>International Journal of Developmental Biology</i> , 2004 , 48, 249-270	1.9	151
84	Anatomical, Physiological, and Functional Diversity of Adipose Tissue. <i>Cell Metabolism</i> , 2018 , 27, 68-83	24.6	147
83	Organ-level quorum sensing directs regeneration in hair stem cell populations. <i>Cell</i> , 2015 , 161, 277-90	56.2	140
82	Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. <i>Evolution & Development</i> , 2005 , 7, 440-57	2.6	139
81	Epithelial stem cells and implications for wound repair. <i>Seminars in Cell and Developmental Biology</i> , 2012 , 23, 946-53	7.5	133
80	Cyclic alopecia in <i>Msx2</i> mutants: defects in hair cycling and hair shaft differentiation. <i>Development (Cambridge)</i> , 2003 , 130, 379-89	6.6	133
79	Morpho-regulation of ectodermal organs: integument pathology and phenotypic variations in K14-Noggin engineered mice through modulation of bone morphogenic protein pathway. <i>American Journal of Pathology</i> , 2004 , 164, 1099-114	5.8	109

78	Complex hair cycle domain patterns and regenerative hair waves in living rodents. <i>Journal of Investigative Dermatology</i> , 2008 , 128, 1071-80	4.3	107
77	MiR-31 promotes mammary stem cell expansion and breast tumorigenesis by suppressing Wnt signaling antagonists. <i>Nature Communications</i> , 2017 , 8, 1036	17.4	103
76	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	11.5	99
75	The circadian clock in skin: implications for adult stem cells, tissue regeneration, cancer, aging, and immunity. <i>Journal of Biological Rhythms</i> , 2015 , 30, 163-82	3.2	94
74	Hedgehog stimulates hair follicle neogenesis by creating inductive dermis during murine skin wound healing. <i>Nature Communications</i> , 2018 , 9, 4903	17.4	94
73	Resting no more: re-defining telogen, the maintenance stage of the hair growth cycle. <i>Biological Reviews</i> , 2015 , 90, 1179-96	13.5	87
72	Activating an adaptive immune response from a hydrogel scaffold imparts regenerative wound healing. <i>Nature Materials</i> , 2021 , 20, 560-569	27	84
71	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	13.3	73
70	Evo-Devo of amniote integuments and appendages. <i>International Journal of Developmental Biology</i> , 2004 , 48, 249-70	1.9	73
69	Evidence for the involvement of fibroblast growth factor 10 in lipofibroblast formation during embryonic lung development. <i>Development (Cambridge)</i> , 2015 , 142, 4139-50	6.6	62
68	New activators and inhibitors in the hair cycle clock: targeting stem cells w/ state of competence. <i>Journal of Investigative Dermatology</i> , 2012 , 132, 1321-4	4.3	57
67	Regenerative hair waves in aging mice and extra-follicular modulators follistatin, dkk1, and sfrp4. <i>Journal of Investigative Dermatology</i> , 2014 , 134, 2086-2096	4.3	55
66	MiR-31 Mediates Inflammatory Signaling to Promote Re-Epithelialization during Skin Wound Healing. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 2253-2263	4.3	53
65	The Modulatable Stem Cell Niche: Tissue Interactions during Hair and Feather Follicle Regeneration. <i>Journal of Molecular Biology</i> , 2016 , 428, 1423-40	6.5	51
64	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, 857-68	1.9	49
63	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	32.3	49
62	Fibroblasts: Origins, definitions, and functions in health and disease. <i>Cell</i> , 2021 , 184, 3852-3872	56.2	48
61	External light activates hair follicle stem cells through eyes via an ipRGC-SCN-sympathetic neural pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6880-E6889	11.5	43

60	PubFocus: semantic MEDLINE/PubMed citations analytics through integration of controlled biomedical dictionaries and ranking algorithm. <i>BMC Bioinformatics</i> , 2006 , 7, 424	3.6	42
59	Stress responsive miR-31 is a major modulator of mouse intestinal stem cells during regeneration and tumorigenesis. <i>ELife</i> , 2017 , 6,	8.9	41
58	Emerging nonmetabolic functions of skin fat. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 163-173	15.2	41
57	Principles and mechanisms of regeneration in the mouse model for wound-induced hair follicle neogenesis. <i>Regeneration (Oxford, England)</i> , 2015 , 2, 169-181		37
56	YAP-mediated mechanotransduction tunes the macrophage inflammatory response. <i>Science Advances</i> , 2020 , 6,	14.3	37
55	Macroenvironmental regulation of hair cycling and collective regenerative behavior. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 4, a015198	5.4	36
54	Organotypic skin culture. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 1-4	4.3	36
53	A multi-scale model for hair follicles reveals heterogeneous domains driving rapid spatiotemporal hair growth patterning. <i>ELife</i> , 2017 , 6,	8.9	32
52	Engineering stem cells into organs: topobiological transformations demonstrated by beak, feather, and other ectodermal organ morphogenesis. <i>Current Topics in Developmental Biology</i> , 2006 , 72, 237-74	5.3	30
51	Epigenetic control of skin and hair regeneration after wounding. <i>Experimental Dermatology</i> , 2015 , 24, 167-70	4	29
50	The Role of Symmetric Stem Cell Divisions in Tissue Homeostasis. <i>PLoS Computational Biology</i> , 2015 , 11, e1004629	5	29
49	Accelerated closure of skin wounds in mice deficient in the homeobox gene <i>Msx2</i> . <i>Wound Repair and Regeneration</i> , 2009 , 17, 639-48	3.6	25
48	<i>Msi2</i> 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	4.3	23
47	Hair follicle signaling networks: a dermal papilla-centric approach. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 2306-2308	4.3	22
46	Mobilizing Transit-Amplifying Cell-Derived Ectopic Progenitors Prevents Hair Loss from Chemotherapy or Radiation Therapy. <i>Cancer Research</i> , 2017 , 77, 6083-6096	10.1	22
45	Phagocytosis of Wnt inhibitor SFRP4 by late wound macrophages drives chronic Wnt activity for fibrotic skin healing. <i>Science Advances</i> , 2020 , 6, eaay3704	14.3	21
44	Inducing hair follicle neogenesis with secreted proteins enriched in embryonic skin. <i>Biomaterials</i> , 2018 , 167, 121-131	15.6	21
43	An <i>Ovol2-Zeb1</i> transcriptional circuit regulates epithelial directional migration and proliferation. <i>EMBO Reports</i> , 2019 , 20,	6.5	20

42	Distinct mechanisms underlie pattern formation in the skin and skin appendages. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2006 , 78, 280-91		19
41	Modelling hair follicle growth dynamics as an excitable medium. <i>PLoS Computational Biology</i> , 2012 , 8, e1002804	5	17
40	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	4-3	16
39	Secreted stromal protein ISLR promotes intestinal regeneration by suppressing epithelial Hippo signaling. <i>EMBO Journal</i> , 2020 , 39, e103255	13	16
38	Inference and analysis of cell-cell communication using CellChat		16
37	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	4-3	15
36	Making waves with hairs. <i>Journal of Investigative Dermatology</i> , 2004 , 122, vii-ix	4-3	15
35	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	12.1	14
34	Msx2 Supports Epidermal Competency During Wound-Induced Hair Follicle Neogenesis. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 2041-2050	4-3	14
33	High-resolution infrared imaging of biological samples with third-order sum-frequency generation microscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 4807-4817	3-5	14
32	Gene loss in keratinization programs accompanies adaptation of cetacean skin to aquatic lifestyle. <i>Experimental Dermatology</i> , 2015 , 24, 572-3	4	13
31	Cycling Stem Cells Are Radioresistant and Regenerate the Intestine. <i>Cell Reports</i> , 2020 , 32, 107952	10.6	11
30	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	6.3	10
29	Diet-induced obesity promotes infection by impairment of the innate antimicrobial defense function of dermal adipocyte progenitors. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	10
28	Epithelial Migration and Non-adhesive Periderm Are Required for Digit Separation during Mammalian Development. <i>Developmental Cell</i> , 2020 , 52, 764-778.e4	10.2	9
27	Dermal Adipose Tissue Secretes HGF to Promote Human Hair Growth and Pigmentation. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 1633-1645.e13	4-3	9
26	A multiscale hybrid mathematical model of epidermal-dermal interactions during skin wound healing. <i>Experimental Dermatology</i> , 2019 , 28, 493-502	4	8
25	Deadly hairs, lethal feathers--convergent evolution of poisonous integument in mammals and birds. <i>Experimental Dermatology</i> , 2014 , 23, 466-8	4	6

24	The Msi1-mTOR pathway drives the pathogenesis of mammary and extramammary Paget disease. <i>Cell Research</i> , 2020 , 30, 854-872	24.7	6
23	Near Equilibrium Calculus of Stem Cells in Application to the Airway Epithelium Lineage. <i>PLoS Computational Biology</i> , 2016 , 12, e1004990	5	6
22	Gli-fully Halting the Progression of Fibrosis. <i>Cell Stem Cell</i> , 2017 , 20, 735-736	18	5
21	At the dawn of hair research - testing the limits of hair follicle regeneration. <i>Experimental Dermatology</i> , 2014 , 23, 314-5	4	5
20	Estrogen modulates mesenchyme-epidermis interactions in the adult nipple. <i>Development (Cambridge)</i> , 2017 , 144, 1498-1509	6.6	3
19	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	1.4	3
18	MiR-22 modulates brown adipocyte thermogenesis by synergistically activating the glycolytic and mTORC1 signaling pathways. <i>Theranostics</i> , 2021 , 11, 3607-3623	12.1	3
17	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	11.5	3
16	Author response: A multi-scale model for hair follicles reveals heterogeneous domains driving rapid spatiotemporal hair growth patterning 2017 ,		2
15	Author response: Stress responsive miR-31 is a major modulator of mouse intestinal stem cells during regeneration and tumorigenesis 2017 ,		2
14	Msi1 promotes breast cancer metastasis by regulating invadopodia-mediated extracellular matrix degradation via the Timp3-Mmp9 pathway. <i>Oncogene</i> , 2021 , 40, 4832-4845	9.2	2
13	The emerging functions of regulatory RNA species in skin biology. <i>Experimental Dermatology</i> , 2015 , 24, 827-8	4	1
12	Fibroblasts feel evolutionary pressure to regenerate. <i>Developmental Cell</i> , 2021 , 56, 2685-2687	10.2	1
11	Genomic and anatomical comparisons of skin support independent adaptation to life in water by cetaceans and hippos		1
10	Equal opportunities in stemness. <i>Nature Cell Biology</i> , 2019 , 21, 921-923	23.4	0
9	Moving On after Trauma: Fibroblasts Thrive in the Right Environment. <i>Cell Stem Cell</i> , 2020 , 27, 349-351	18	0
8	Dormant reporter-marked basal stem/progenitor cells contribute to mammary lobuloalveoli formation.. <i>IScience</i> , 2022 , 25, 103982	6.1	0
7	Cutaneous epithelial stem cells 2020 , 1289-1307		

- 6 Light-emitting hair follicles: studying skin regeneration with in vivo imaging. *Journal of Investigative Dermatology*, **2014**, 134, 1496-1498 4.3
- 5 Cutaneous Epithelial Stem Cells **2014**, 1581-1594
- 4 026 Altered Skin Wound Healing in Homeobox Gene Msx-2 Knockout Mice. *Wound Repair and Regeneration*, **2008**, 13, A4-A27 3.6
- 3 Altered Epithelial-mesenchymal Plasticity as a Result of *Ovol2* Deletion Minimally Impacts the Self-renewal of Adult Mammary Basal Epithelial Cells.. *Journal of Mammary Gland Biology and Neoplasia*, **2022**, 1 2.4
- 2 Anatomical and functional landscapes of hair regeneration across the body. *FASEB Journal*, **2018**, 32, 232.1 0.9
- 1 Epithelial-Mesenchymal Interactions Between Hair Follicles and Dermal Adipose Tissue. *Pancreatic Islet Biology*, **2022**, 107-133 0.4