Markus Frank

List of Publications by Year
in descending order

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91 papers	6,475 citations	125106 35 h-index	90395 73 g-index
94 all docs	94 docs citations	94 times ranked	9899 citing authors

#	Article	IF	Citations
1	Allogeneic ABCB5+ Mesenchymal Stem Cells for Treatment-Refractory Chronic Venous Ulcers: A Phase I/IIa Clinical Trial. JID Innovations, 2022, 2, 100067.	1.2	12
2	High expression of SARS-CoV2 viral entry-related proteins in human limbal stem cells. Ocular Surface, 2022, 23, 197-200.	2.2	6
3	Angiogenin Released from ABCB5+ Stromal Precursors Improves Healing of Diabetic Wounds by Promoting Angiogenesis. Journal of Investigative Dermatology, 2022, 142, 1725-1736.e10.	0.3	11
4	Ex vivo-expanded highly pure ABCB5+ mesenchymal stromal cells as Good Manufacturing Practice-compliant autologous advanced therapy medicinal product for clinical use: process validation and first in-human data. Cytotherapy, 2021, 23, 165-175.	0.3	26
5	Process development and safety evaluation of ABCB5+ limbal stem cells as advanced-therapy medicinal product to treat limbal stem cell deficiency. Stem Cell Research and Therapy, 2021, 12, 194.	2.4	18
6	ABCB5+ Dermal Mesenchymal Stromal Cells with Favorable Skin Homing and Local Immunomodulation for Recessive Dystrophic Epidermolysis Bullosa Treatment. Stem Cells, 2021, 39, 897-903.	1.4	19
7	Clinical Implications of Colorectal Cancer Stem Cells in the Age of Single-Cell Omics and Targeted Therapies. Gastroenterology, 2021, 160, 1947-1960.	0.6	42
8	Human iPS cells engender corneal epithelial stem cells with holoclone-forming capabilities. IScience, 2021, 24, 102688.	1.9	7
9	Clinical trial of ABCB5+ mesenchymal stem cells for recessive dystrophic epidermolysis bullosa. JCI Insight, 2021, 6, .	2.3	15
10	Investigation of factors associated with ABCB5-positive limbal stem cell isolation yields from human donors. Ocular Surface, 2020, 18, 114-120.	2.2	7
11	PD-L1 Expression on Circulating Tumor Cells May Be Predictive of Response to Pembrolizumab in Advanced Melanoma: Results from a Pilot Study. Oncologist, 2020, 25, e520-e527.	1.9	54
12	Loss of the Epigenetic Mark 5-hmC in Psoriasis: Implications for Epidermal Stem Cell Dysregulation. Journal of Investigative Dermatology, 2020, 140, 1266-1275.e3.	0.3	16
13	Process data of allogeneic ex vivo-expanded ABCB5+ mesenchymal stromal cells for human use: off-the-shelf GMP-manufactured donor-independent ATMP. Stem Cell Research and Therapy, 2020, 11, 482.	2.4	17
14	Targeting the ABC transporter ABCB5 sensitizes glioblastoma to temozolomide-induced apoptosis through a cell-cycle checkpoint regulation mechanism. Journal of Biological Chemistry, 2020, 295, 7774-7788.	1.6	23
15	Human skin-derived ABCB5+ stem cell injection improves liver disease parameters in Mdr2KO mice. Archives of Toxicology, 2019, 93, 2645-2660.	1.9	7
16	Newly Defined ATP-Binding Cassette Subfamily B Member 5 Positive Dermal Mesenchymal Stem Cells Promote Healing of Chronic Iron-Overload Wounds via Secretion of Interleukin-1 Receptor Antagonist. Stem Cells, 2019, 37, 1057-1074.	1.4	41
17	In vivo safety profile and biodistribution of GMP-manufactured human skin-derived ABCB5-positive mesenchymal stromal cells for use in clinical trials. Cytotherapy, 2019, 21, 546-560.	0.3	35
18	Immunomagnetic-Enriched Subpopulations of Melanoma Circulating Tumour Cells (CTCs) Exhibit Distinct Transcriptome Profiles. Cancers, 2019, 11, 157.	1.7	16

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19	Repairing the corneal epithelium using limbal stem cells or alternative cell-based therapies. Expert Opinion on Biological Therapy, 2018, 18, 505-513.	1.4	28
20	Cover Image, Volume 7, Issue 2. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e318.	5.9	0
21	Limbal stem cells: identity, developmental origin, and therapeutic potential. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e303.	5.9	80
22	Limbal Stem Cells and the Treatment of Limbal Stem Cell Deficiency. Fundamental Biomedical Technologies, 2018, , 123-148.	0.2	0
23	UV light-blocking contact lenses protect against short-term UVB-induced limbal stem cell niche damage and inflammation. Scientific Reports, 2018, 8, 12564.	1.6	23
24	ATP-binding cassette member B5 (ABCB5) promotes tumor cell invasiveness in human colorectal cancer. Journal of Biological Chemistry, 2018, 293, 11166-11178.	1.6	50
25	Rapid generation of Col7a1â^'/â^' mouse model of recessive dystrophic epidermolysis bullosa and partial rescue via immunosuppressive dermal mesenchymal stem cells. Laboratory Investigation, 2017, 97, 1218-1224.	1.7	29
26	Detection of ABCB5 tumour antigen-specific CD8+ T cells in melanoma patients and implications for immunotherapy. Clinical and Experimental Immunology, 2017, 191, 74-83.	1.1	5
27	Isolation and detection of circulating tumour cells from metastatic melanoma patients using a slanted spiral microfluidic device. Oncotarget, 2017, 8, 67355-67368.	0.8	45
28	Melanoma Stem Cells. , 2017, , 311-337.		0
29	Clinical Significance of Disseminated Pluripotent Tumor Cell SignatureExpression in the Bone Marrow from Patients with Colorectal Cancer. Journal of Cancer Science & Therapy, 2017, 9, 669-674.	1.7	0
30	Suppression of Neutrophil-Mediated Tissue Damageâ€"A Novel Skill of Mesenchymal Stem Cells. Stem Cells, 2016, 34, 2393-2406.	1.4	121
31	ABCB5-Targeted Chemoresistance Reversal Inhibits Merkel Cell Carcinoma Growth. Journal of Investigative Dermatology, 2016, 136, 838-846.	0.3	19
32	577 Ageing in the dermal perivascular niche: ABCB5 + MSCs depend on osteopontin. Journal of Investigative Dermatology, 2016, 136, S259.	0.3	0
33	Expression of Cell-Surface Marker ABCB5 Causes Characteristic Modifications of Glucose, Amino Acid and Phospholipid Metabolism in the G3361 Melanoma-Initiating Cell Line. PLoS ONE, 2016, 11, e0161803.	1.1	9
34	Abstract A25: Role of ABCB5 in progression and therapeutic resistance of glioblastoma. , 2016, , .		0
35	Abstract B28: The stem cell gene ABCB5 mediates colorectal cancer resistance to apoptosis. , 2016, , .		0
36	ABCB5 Identifies Immunoregulatory Dermal Cells. Cell Reports, 2015, 12, 1564-1574.	2.9	51

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37	Effects of Malignant Melanoma Initiating Cells on T-Cell Activation. Methods in Molecular Biology, 2015, , 1.	0.4	1
38	Circulating Melanoma Cell Subpopulations: Their Heterogeneity and Differential Responses to Treatment. Journal of Investigative Dermatology, 2015, 135, 2040-2048.	0.3	66
39	Isolation of Circulating Melanoma Cells. Methods in Molecular Biology, 2015, , 1.	0.4	5
40	Expression of Multidrug Resistance Transporter ABCB5 in a Murine Model of Human Conjunctival Melanoma. Ocular Oncology and Pathology, 2015, 1, 182-189.	0.5	14
41	Melanoma Cell-Intrinsic PD-1 Receptor Functions Promote Tumor Growth. Cell, 2015, 162, 1242-1256.	13.5	507
42	Restoring the cornea from limbal stem cells. Regenerative Medicine, 2015, 10, 1-4.	0.8	80
43	Nestin depletion induces melanoma matrix metalloproteinases and invasion. Laboratory Investigation, 2014, 94, 1382-1395.	1.7	12
44	ABCB5 Maintains Melanoma-Initiating Cells through a Proinflammatory Cytokine Signaling Circuit. Cancer Research, 2014, 74, 4196-4207.	0.4	118
45	The Multidrug-Resistance Transporter ABCB5 is Expressed in Human Placenta. International Journal of Gynecological Pathology, 2014, 33, 45-51.	0.9	17
46	ABCB5 is a limbal stem cell gene required for corneal development and repair. Nature, 2014, 511, 353-357.	13.7	217
47	Stem cells and targeted approaches to melanoma cure. Molecular Aspects of Medicine, 2014, 39, 33-49.	2.7	44
48	Genetically determined ABCB5 functionality correlates with pigmentation phenotype and melanoma risk. Biochemical and Biophysical Research Communications, 2013, 436, 536-542.	1.0	13
49	Markers of circulating tumour cells in the peripheral blood of patients with melanoma correlate with disease recurrence and progression. British Journal of Dermatology, 2013, 168, 85-92.	1.4	70
50	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. Journal of Biophotonics, 2013, 6, 425-434.	1.1	62
51	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. , 2013, 6, 425.		1
52	Abstract 2685: Regulation of melanoma metastasis by malignant melanoma-initiating cell marker ABCB5.. , 2013, , .		0
53	Epigenetic and stem cell biomarkers in experimental melanoma metastases. FASEB Journal, 2013, 27, 53.6.	0.2	0
54	Inhibition of lysineâ€specific histone demethylase LSD1 suppresses melanoma growth. FASEB Journal, 2013, 27, 1088.15.	0.2	2

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55	Expression of MDRâ€transporter, ABCB5, in Merkel cell carcinoma. FASEB Journal, 2013, 27, 1087.8.	0.2	0
56	Abstract 243: ABCB5 is functionally required for melanoma growth.. , 2013, , .		0
57	Abstract 4914: ABCB5 expression in colorectal cancer circulating tumor cells correlates with metastatic disease progression.. , 2013, , .		0
58	Metabolic Inhibition of Galectin-1-Binding Carbohydrates Accentuates Antitumor Immunity. Journal of Investigative Dermatology, 2012, 132, 410-420.	0.3	54
59	Immunomodulatory Functions of Cancer Stem Cells. , 2012, , 301-332.		0
60	SOX2 and nestin expression in human melanoma: an immunohistochemical and experimental study. Experimental Dermatology, 2011, 20, 339-345.	1.4	58
61	Colorectal Cancer Stem Cells: Biology and Therapeutic Implications. Current Colorectal Cancer Reports, 2011, 7, 128-135.	1.0	37
62	ABCB5 Identifies a Therapy-Refractory Tumor Cell Population in Colorectal Cancer Patients. Cancer Research, 2011, 71, 5307-5316.	0.4	121
63	VEGFR-1 Expressed by Malignant Melanoma-Initiating Cells Is Required for Tumor Growth. Cancer Research, 2011, 71, 1474-1485.	0.4	142
64	The Pro-Apoptotic Protein Bim Is a MicroRNA Target in Kidney Progenitors. Journal of the American Society of Nephrology: JASN, 2011, 22, 1053-1063.	3.0	92
65	Melanoma Stem Cells. , 2011, , 255-279.		0
66	The therapeutic promise of the cancer stem cell concept. Journal of Clinical Investigation, 2010, 120, 41-50.	3.9	573
67	The In Vitro Spheroid Melanoma Cell Culture Assay: Cues on Tumor Initiation?. Journal of Investigative Dermatology, 2010, 130, 1769-1771.	0.3	34
68	Modulation of T-Cell Activation by Malignant Melanoma Initiating Cells. Cancer Research, 2010, 70, 697-708.	0.4	256
69	Tumor Initiation in Human Malignant Melanoma and Potential Cancer Therapies. Anti-Cancer Agents in Medicinal Chemistry, 2010, 10, 131-136.	0.9	15
70	A novel in vivo regulatory role of P-glycoprotein in alloimmunity. Biochemical and Biophysical Research Communications, 2010, 394, 646-652.	1.0	6
71	Isolation of tumorigenic circulating melanoma cells. Biochemical and Biophysical Research Communications, 2010, 402, 711-717.	1.0	57
72	Abstract 4363: Identification of ABCB5 multidrug transporter in retinoblastoma. , 2010, , .		0

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73	The Effects of Tamoxifen on Immunity. Current Medicinal Chemistry, 2009, 16, 3076-3080.	1.2	97
74	Identification and targeting of cancer stem cells. BioEssays, 2009, 31, 1038-1049.	1.2	157
75	Antitumor Immunity and Cancer Stem Cells. Annals of the New York Academy of Sciences, 2009, 1176, 154-169.	1.8	145
76	ABCB5 gene amplification in human leukemia cells. Leukemia Research, 2009, 33, 1303-1305.	0.4	18
77	Solid Tumor Stem Cells â€“ Implications for Cancer Therapy. , 2009, , 527-543.		1
78	Identification of pancreatic cancer initiating cells: The role of the MDR gene ABCB5. Langenbecks Archiv Fuˆr Chirurgie Supplement, 2009, , 45-47.	0.0	0
79	Cancer stem cells and human malignant melanoma. Pigment Cell and Melanoma Research, 2008, 21, 39-55.	1.5	181
80	Identification of cells initiating human melanomas. Nature, 2008, 451, 345-349.	13.7	1,327
81	P-Glycoprotein Functions as a Differentiation Switch in Antigen Presenting Cell Maturation. American Journal of Transplantation, 2006, 6, 2884-2893.	2.6	32
82	Regulation of myogenic progenitor proliferation in human fetal skeletal muscle by BMP4 and its antagonist Gremlin. Journal of Cell Biology, 2006, 175, 99-110.	2.3	61
83	Investigation of multidrug resistance in cultured human renal cell carcinoma cells by 31P-NMR spectroscopy and treatment survival assays. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 144-161.	1.1	10
84	ABCB5-Mediated Doxorubicin Transport and Chemoresistance in Human Malignant Melanoma. Cancer Research, 2005, 65, 4320-4333.	0.4	537
85	Immunomodulatory functions of mesenchymal stem cells. Lancet, The, 2004, 363, 1411-1412.	6.3	81
86	CD40-induced transcriptional activation of vascular endothelial growth factor involves a 68-bp region of the promoter containing a CpG island. American Journal of Physiology - Renal Physiology, 2004, 287, F512-F520.	1.3	11
87	P-glycoprotein and alloimmune T-cell activation. Clinical and Applied Immunology Reviews, 2003, 4, 3-14.	0.4	10
88	Regulation of Progenitor Cell Fusion by ABCB5 P-glycoprotein, a Novel Human ATP-binding Cassette Transporter. Journal of Biological Chemistry, 2003, 278, 47156-47165.	1.6	209
89	P-glycoprotein - A Novel Therapeutic Target for Immunomodulation in Clinical Transplantation and Autoimmunity?. Current Drug Targets, 2003, 4, 469-476.	1.0	24
90	Specific MDR1 P-Glycoprotein Blockade Inhibits Human Alloimmune T Cell Activation In Vitro. Journal of Immunology, 2001, 166, 2451-2459.	0.4	62

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91	Interferon Î±2b differentially affects proliferation of two human renal cell carcinoma cell lines differing in the P-glycoprotein-associated multidrug-resistant phenotype. Journal of Cancer Research and Clinical Oncology, 1999, 125, 117-120.	1.2	6