

# Mikael J Pittet

## List of Publications by Year in descending order

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95  
papers

28,883  
citations

30551

56  
h-index

49824

91  
g-index

100  
all docs

100  
docs citations

100  
times ranked

45048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the tumor immune microenvironment (TIME) for effective therapy. <i>Nature Medicine</i> , 2018, 24, 541-550.	15.2	3,421
2	Imaging in the era of molecular oncology. <i>Nature</i> , 2008, 452, 580-589.	13.7	2,190
3	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Experimental Medicine</i> , 2007, 204, 3037-3047.	4.2	1,926
4	Identification of Splenic Reservoir Monocytes and Their Deployment to Inflammatory Sites. <i>Science</i> , 2009, 325, 612-616.	6.0	1,806
5	The Intestinal Microbiota Modulates the Anticancer Immune Effects of Cyclophosphamide. <i>Science</i> , 2013, 342, 971-976.	6.0	1,580
6	Ly-6Chi monocytes dominate hypercholesterolemia-associated monocytosis and give rise to macrophages in atheromata. <i>Journal of Clinical Investigation</i> , 2007, 117, 195-205.	3.9	1,064
7	Single-Cell Transcriptomics of Human and Mouse Lung Cancers Reveals Conserved Myeloid Populations across Individuals and Species. <i>Immunity</i> , 2019, 50, 1317-1334.e10.	6.6	897
8	Cancer cell–autonomous contribution of type I interferon signaling to the efficacy of chemotherapy. <i>Nature Medicine</i> , 2014, 20, 1301-1309.	15.2	823
9	Immunogenic Chemotherapy Sensitizes Tumors to Checkpoint Blockade Therapy. <i>Immunity</i> , 2016, 44, 343-354.	6.6	767
10	TLR7/8-agonist-loaded nanoparticles promote the polarization of tumour-associated macrophages to enhance cancer immunotherapy. <i>Nature Biomedical Engineering</i> , 2018, 2, 578-588.	11.6	714
11	Regulatory T cells suppress tumor-specific CD8 T cell cytotoxicity through TGF- $\beta$ signals in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 419-424.	3.3	711
12	The Spleen in Local and Systemic Regulation of Immunity. <i>Immunity</i> , 2013, 39, 806-818.	6.6	707
13	Imaging macrophages with nanoparticles. <i>Nature Materials</i> , 2014, 13, 125-138.	13.3	698
14	Therapeutic siRNA silencing in inflammatory monocytes in mice. <i>Nature Biotechnology</i> , 2011, 29, 1005-1010.	9.4	697
15	Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN- $\gamma$ and IL-12. <i>Immunity</i> , 2018, 49, 1148-1161.e7.	6.6	639
16	The role of myeloid cells in cancer therapies. <i>Nature Reviews Cancer</i> , 2016, 16, 447-462.	12.8	570
17	Origins of tumor-associated macrophages and neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2491-2496.	3.3	547
18	Ex Vivo Staining of Metastatic Lymph Nodes by Class I Major Histocompatibility Complex Tetramers Reveals High Numbers of Antigen-experienced Tumor-specific Cytolytic T Lymphocytes. <i>Journal of Experimental Medicine</i> , 1998, 188, 1641-1650.	4.2	475

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19	In vivo imaging reveals a tumor-associated macrophage-mediated resistance pathway in anti-PD-1 therapy. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	466
20	Regulatory T Cells Reversibly Suppress Cytotoxic T Cell Function Independent of Effector Differentiation. <i>Immunity</i> , 2006, 25, 129-141.	6.6	456
21	Intravital Imaging. <i>Cell</i> , 2011, 147, 983-991.	13.5	439
22	Extramedullary Hematopoiesis Generates Ly-6C <sup>high</sup> Monocytes That Infiltrate Atherosclerotic Lesions. <i>Circulation</i> , 2012, 125, 364-374.	1.6	398
23	Neutrophils Suppress Intraluminal NK Cell-Mediated Tumor Cell Clearance and Enhance Extravasation of Disseminated Carcinoma Cells. <i>Cancer Discovery</i> , 2016, 6, 630-649.	7.7	369
24	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. <i>Nature Communications</i> , 2015, 6, 8692.	5.8	353
25	Effector Function of Human Tumor-Specific CD8 T Cells in Melanoma Lesions: A State of Local Functional Tolerance. <i>Cancer Research</i> , 2004, 64, 2865-2873.	0.4	351
26	Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10340-10345.	3.3	316
27	COVID-19 diagnostics in context. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	305
28	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. <i>Science Translational Medicine</i> , 2015, 7, 314ra183.	5.8	273
29	Osteoblasts remotely supply lung tumors with cancer-promoting SiglecF <sup>high</sup> neutrophils. <i>Science</i> , 2017, 358, .	6.0	270
30	SCS macrophages suppress melanoma by restricting tumor-derived vesicle-B cell interactions. <i>Science</i> , 2016, 352, 242-246.	6.0	259
31	Clinical relevance of tumour-associated macrophages. <i>Nature Reviews Clinical Oncology</i> , 2022, 19, 402-421.	12.5	250
32	Arg1 expression defines immunosuppressive subsets of tumor-associated macrophages. <i>Theranostics</i> , 2018, 8, 5842-5854.	4.6	203
33	Crizotinib-induced immunogenic cell death in non-small cell lung cancer. <i>Nature Communications</i> , 2019, 10, 1486.	5.8	189
34	CXCR6 positions cytotoxic T cells to receive critical survival signals in the tumor microenvironment. <i>Cell</i> , 2021, 184, 4512-4530.e22.	13.5	180
35	In Vivo Expression of Natural Killer Cell Inhibitory Receptors by Human Melanoma-Specific Cytolytic T Lymphocytes. <i>Journal of Experimental Medicine</i> , 1999, 190, 775-782.	4.2	179
36	Radiation therapy primes tumors for nanotherapeutic delivery via macrophage-mediated vascular bursts. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	178

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37	Angiotensin II Drives the Production of Tumor-Promoting Macrophages. <i>Immunity</i> , 2013, 38, 296-308.	6.6	157
38	Heterogeneity of macrophage infiltration and therapeutic response in lung carcinoma revealed by 3D organ imaging. <i>Nature Communications</i> , 2017, 8, 14293.	5.8	155
39	Labeling of immune cells for in vivo imaging using magnetofluorescent nanoparticles. <i>Nature Protocols</i> , 2006, 1, 73-79.	5.5	148
40	Antigenicity and immunogenicity of Melan-A/MART-1 derived peptides as targets for tumor reactive CTL in human melanoma. <i>Immunological Reviews</i> , 2002, 188, 81-96.	2.8	146
41	Durable and controlled depletion of neutrophils in mice. <i>Nature Communications</i> , 2020, 11, 2762.	5.8	138
42	Heterogeneous In Vivo Behavior of Monocyte Subsets in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1424-1432.	1.1	121
43	Neutrophil phenotypes and functions in cancer: A consensus statement. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	119
44	Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using <sup>64</sup> Cu-Labeled Macrin. <i>ACS Nano</i> , 2018, 12, 12015-12029.	7.3	117
45	<sup>89</sup> Zr-Labeled Dextran Nanoparticles Allow in Vivo Macrophage Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 2383-2389.	1.8	116
46	<i>In vivo</i> imaging of T cell delivery to tumors after adoptive transfer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12457-12461.	3.3	113
47	Tumor-infiltrating dendritic cell states are conserved across solid human cancers. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	113
48	CD28-negative cytolytic effector T cells frequently express NK receptors and are present at variable proportions in circulating lymphocytes from healthy donors and melanoma patients. <i>European Journal of Immunology</i> , 1999, 29, 1990-1999.	1.6	111
49	Behavior of Endogenous Tumor-Associated Macrophages Assessed In Vivo Using a Functionalized Nanoparticle. <i>Neoplasia</i> , 2009, 11, 459-IN4.	2.3	103
50	Phase II Trial of IL-12 Plasmid Transfection and PD-1 Blockade in Immunologically Quiescent Melanoma. <i>Clinical Cancer Research</i> , 2020, 26, 2827-2837.	3.2	86
51	PF4 Promotes Platelet Production and Lung Cancer Growth. <i>Cell Reports</i> , 2016, 17, 1764-1772.	2.9	80
52	Behavior of immune players in the tumor microenvironment. <i>Current Opinion in Oncology</i> , 2009, 21, 53-59.	1.1	71
53	I $\pm$ 3 Domain Mutants of Peptide/MHC Class I Multimers Allow the Selective Isolation of High Avidity Tumor-Reactive CD8 T Cells. <i>Journal of Immunology</i> , 2003, 171, 1844-1849.	0.4	65
54	Development of Adamantane-Conjugated TLR7/8 Agonists for Supramolecular Delivery and Cancer Immunotherapy. <i>Theranostics</i> , 2019, 9, 8426-8436.	4.6	65

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55	Tumor-Promoting Ly-6G+ SiglecFhigh Cells Are Mature and Long-Lived Neutrophils. <i>Cell Reports</i> , 2020, 32, 108164.	2.9	65
56	The journey from stem cell to macrophage. <i>Annals of the New York Academy of Sciences</i> , 2014, 1319, 1-18.	1.8	64
57	Tle1 tumor suppressor negatively regulates inflammation in vivo and modulates NF- $\kappa$ B inflammatory pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1871-1876.	3.3	62
58	A Near-Infrared Cell Tracker Reagent for Multiscopic In Vivo Imaging and Quantification of Leukocyte Immune Responses. <i>PLoS ONE</i> , 2007, 2, e1075.	1.1	59
59	Recording the wild lives of immune cells. <i>Science Immunology</i> , 2018, 3, .	5.6	59
60	Molecular Pathways: Tumor-Derived Microvesicles and Their Interactions with Immune Cells<i>In Vivo</i>. <i>Clinical Cancer Research</i> , 2013, 19, 2598-2604.	3.2	54
61	Melan-A/MART-1-specific CD8 T cells: from thymus to tumor. <i>Trends in Immunology</i> , 2002, 23, 325-328.	2.9	53
62	Single Extracellular Vesicle Protein Analysis Using Immuno- $\Phi$ droplet Digital Polymerase Chain Reaction Amplification. <i>Advanced Biology</i> , 2020, 4, e1900307.	3.0	52
63	Glucocorticoids Regulate Bone Marrow B Lymphopoiesis After Stroke. <i>Circulation Research</i> , 2019, 124, 1372-1385.	2.0	50
64	Human CD8+ T cells expressing HLA-DR and CD28 show telomerase activity and are distinct from cytolytic effector T cells. <i>European Journal of Immunology</i> , 2001, 31, 459-466.	1.6	48
65	Regulation of T-cell migration and effector functions: insights from in vivo imaging studies. <i>Immunological Reviews</i> , 2008, 221, 107-129.	2.8	47
66	Longitudinal confocal microscopy imaging of solid tumor destruction following adoptive T cell transfer. <i>Oncolmmunology</i> , 2013, 2, e26677.	2.1	47
67	Resident Kupffer cells and neutrophils drive liver toxicity in cancer immunotherapy. <i>Science Immunology</i> , 2021, 6, .	5.6	47
68	Spatiotemporal multiplexed immunofluorescence imaging of living cells and tissues with bioorthogonal cycling of fluorescent probes. <i>Nature Biotechnology</i> , 2022, 40, 1654-1662.	9.4	42
69	Dendritic cell paucity in mismatch repair- proficient colorectal cancer liver metastases limits immune checkpoint blockade efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	40
70	The expanding landscape of inflammatory cells affecting cancer therapy. <i>Nature Biomedical Engineering</i> , 2020, 4, 489-498.	11.6	39
71	Tumor Microenvironment: No Effector T Cells without Dendritic Cells. <i>Cancer Cell</i> , 2017, 31, 614-615.	7.7	38
72	Monocytes link atherosclerosis and cancer. <i>European Journal of Immunology</i> , 2011, 41, 2519-2522.	1.6	31

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73	Age-related tumor growth in mice is related to integrin $\alpha 4$ in CD8+ T cells. JCI Insight, 2018, 3, .	2.3	31
74	Common TLR5 Mutations Control Cancer Progression. Cancer Cell, 2015, 27, 1-3.	7.7	25
75	Ex Vivo Characterization of Allo-MHC-Restricted T Cells Specific for a Single MHC-Peptide Complex. Journal of Immunology, 2006, 176, 2330-2336.	0.4	22
76	Near infrared imaging of Mer tyrosine kinase ( <i>MERTK</i> ) using MERi-SiR reveals tumor associated macrophage uptake in metastatic disease. Chemical Communications, 2018, 54, 42-45.	2.2	21
77	LTX-315 sequentially promotes lymphocyte-independent and lymphocyte-dependent antitumor effects. Cell Stress, 2019, 3, 348-360.	1.4	19
78	Macrophage-Targeted Therapy Unlocks Antitumoral Cross-talk between IFN $\gamma$ -Secreting Lymphocytes and IL12-Producing Dendritic Cells. Cancer Immunology Research, 2022, 10, 40-55.	1.6	18
79	Gal3 Links Inflammation and Insulin Resistance. Cell Metabolism, 2016, 24, 655-656.	7.2	16
80	Myeloid Cell-Targeted Nanocarriers Efficiently Inhibit Cellular Inhibitor of Apoptosis for Cancer Immunotherapy. Cell Chemical Biology, 2020, 27, 94-104.e5.	2.5	16
81	Versatile neutrophil functions in cancer. Seminars in Immunology, 2021, 57, 101538.	2.7	16
82	Regulation of Macrophage and Dendritic Cell Responses by Their Lineage Precursors. Journal of Innate Immunity, 2012, 4, 411-423.	1.8	15
83	ER Stress in Dendritic Cells Promotes Cancer. Cell, 2015, 161, 1492-1493.	13.5	14
84	Rapid Serial Immunoprofiling of the Tumor Immune Microenvironment by Fine Needle Sampling. Clinical Cancer Research, 2021, 27, 4781-4793.	3.2	14
85	The chemical biology of IL-12 production via the non-canonical NF $\kappa$ B pathway. RSC Chemical Biology, 2020, 1, 166-176.	2.0	11
86	Remote control of macrophage production by cancer. Oncoimmunology, 2013, 2, e24183.	2.1	8
87	Myeloid Cells Are Enriched in Tonsillar Crypts, Providing Insight into the Viral Tropism of Human Papillomavirus. American Journal of Pathology, 2021, 191, 1774-1786.	1.9	7
88	CD28-negative cytolytic effector T cells frequently express NK receptors and are present at variable proportions in circulating lymphocytes from healthy donors and melanoma patients. , 1999, 29, 1990.		7
89	New technology on the horizon: Fast analytical screening technique FNA (FAST $\alpha$ FNA) enables rapid, multiplex biomarker analysis in head and neck cancers. Cancer Cytopathology, 2020, 128, 782-791.	1.4	6
90	TNIK Inhibition Has Dual Synergistic Effects on Tumor and Associated Immune Cells. Advanced Biology, 2022, 6, .	1.4	3

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91	A durable murine model of spleen transplantation with arterial and venous anastomoses. Scientific Reports, 2020, 10, 3979.	1.6	1
92	CD28-negative cytolytic effector T cells frequently express NK receptors and are present at variable proportions in circulating lymphocytes from healthy donors and melanoma patients. , 1999, 29, 1990.		1
93	In Situ Transfection of Interleukin 12 Plasmid Enhances Anti-PD-1 Immune Response in Patients with Immunologically Quiescent Melanoma. SSRN Electronic Journal, 0, , .	0.4	0
94	Abstract P061: Dendritic cell paucity in mismatch repair-proficient colorectal cancer liver metastases limits the efficacy of immune checkpoint blockade. , 2022, , .		0
95	Abstract P056: Rapid serial immunoprofiling of the tumor immune microenvironment by fine needle sampling. , 2022, , .		0