

# Michael Sixt

## List of Publications by Year in descending order

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116  
papers

14,855  
citations

29994

54  
h-index

25716

108  
g-index

129  
all docs

129  
docs citations

129  
times ranked

18232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lifect: a versatile marker to visualize F-actin. <i>Nature Methods</i> , 2008, 5, 605-607.	9.0	1,928
2	Rapid leukocyte migration by integrin-independent flowing and squeezing. <i>Nature</i> , 2008, 453, 51-55.	13.7	1,227
3	The Conduit System Transports Soluble Antigens from the Afferent Lymph to Resident Dendritic Cells in the T Cell Area of the Lymph Node. <i>Immunity</i> , 2005, 22, 19-29.	6.6	663
4	Mechanical modes of amoeboid cell migration. <i>Current Opinion in Cell Biology</i> , 2009, 21, 636-644.	2.6	569
5	Mechanisms of 3D cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 738-752.	16.1	539
6	Breaching multiple barriers: leukocyte motility through venular walls and the interstitium. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 366-378.	16.1	487
7	Interstitial Dendritic Cell Guidance by Haptotactic Chemokine Gradients. <i>Science</i> , 2013, 339, 328-332.	6.0	474
8	Endothelial Cell Laminin Isoforms, Laminins 8 and 10, Play Decisive Roles in T Cell Recruitment across the Blood-Brain Barrier in Experimental Autoimmune Encephalomyelitis. <i>Journal of Cell Biology</i> , 2001, 153, 933-946.	2.3	458
9	Actin Flows Mediate a Universal Coupling between Cell Speed and Cell Persistence. <i>Cell</i> , 2015, 161, 374-386.	13.5	369
10	Cortical Contractility Triggers a Stochastic Switch to Fast Amoeboid Cell Motility. <i>Cell</i> , 2015, 160, 673-685.	13.5	345
11	Kindlin-3 is required for $\beta 2$ integrin-mediated leukocyte adhesion to endothelial cells. <i>Nature Medicine</i> , 2009, 15, 300-305.	15.2	339
12	Lymph node chemokines promote sustained T lymphocyte motility without triggering stable integrin adhesiveness in the absence of shear forces. <i>Nature Immunology</i> , 2007, 8, 1076-1085.	7.0	310
13	Proteinase 3 and neutrophil elastase enhance inflammation in mice by inactivating antiinflammatory progranulin. <i>Journal of Clinical Investigation</i> , 2008, 118, 2438-47.	3.9	307
14	Lymph node blood vessels provide exit routes for metastatic tumor cell dissemination in mice. <i>Science</i> , 2018, 359, 1408-1411.	6.0	304
15	Lifect mice for studying F-actin dynamics. <i>Nature Methods</i> , 2010, 7, 168-169.	9.0	286
16	Immobilized Chemokine Fields and Soluble Chemokine Gradients Cooperatively Shape Migration Patterns of Dendritic Cells. <i>Immunity</i> , 2010, 32, 703-713.	6.6	282
17	Focal Adhesion-Independent Cell Migration. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 469-490.	4.0	270
18	Adaptive force transmission in amoeboid cell migration. <i>Nature Cell Biology</i> , 2009, 11, 1438-1443.	4.6	267

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19	Preformed portals facilitate dendritic cell entry into afferent lymphatic vessels. <i>Journal of Experimental Medicine</i> , 2009, 206, 2925-2935.	4.2	256
20	Migrating Platelets Are Mechano-scavengers that Collect and Bundle Bacteria. <i>Cell</i> , 2017, 171, 1368-1382.e23.	13.5	251
21	Nuclear positioning facilitates amoeboid migration along the path of least resistance. <i>Nature</i> , 2019, 568, 546-550.	13.7	212
22	Load Adaptation of Lamellipodial Actin Networks. <i>Cell</i> , 2017, 171, 188-200.e16.	13.5	202
23	A novel role of sphingosine 1-phosphate receptor S1pr1 in mouse thrombopoiesis. <i>Journal of Experimental Medicine</i> , 2012, 209, 2165-2181.	4.2	151
24	Diversified actin protrusions promote environmental exploration but are dispensable for locomotion of leukocytes. <i>Nature Cell Biology</i> , 2016, 18, 1253-1259.	4.6	150
25	Cellular locomotion using environmental topography. <i>Nature</i> , 2020, 582, 582-585.	13.7	150
26	Cell migration and antigen capture are antagonistic processes coupled by myosin II in dendritic cells. <i>Nature Communications</i> , 2015, 6, 7526.	5.8	143
27	Intralymphatic CCL21 Promotes Tissue Egress of Dendritic Cells through Afferent Lymphatic Vessels. <i>Cell Reports</i> , 2016, 14, 1723-1734.	2.9	143
28	CAMTA1 is a novel tumour suppressor regulated by miR-9/9* in glioblastoma stem cells. <i>EMBO Journal</i> , 2011, 30, 4309-4322.	3.5	141
29	Cdc42-dependent leading edge coordination is essential for interstitial dendritic cell migration. <i>Blood</i> , 2009, 113, 5703-5710.	0.6	133
30	Mechanisms of force generation and force transmission during interstitial leukocyte migration. <i>EMBO Reports</i> , 2010, 11, 744-750.	2.0	131
31	Analogies in the evolution of individual and social immunity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 129-142.	1.8	128
32	Extracellular Matrix in Multiple Sclerosis Lesions: Fibrillar Collagens, Biglycan and Decorin are Upregulated and Associated with Infiltrating Immune Cells. <i>Brain Pathology</i> , 2010, 20, 966-975.	2.1	123
33	Polysialylation controls dendritic cell trafficking by regulating chemokine recognition. <i>Science</i> , 2016, 351, 186-190.	6.0	123
34	$\beta$ 1 integrins differentially control extravasation of inflammatory cell subsets into the CNS during autoimmunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1920-1925.	3.3	116
35	Heme drives hemolysis-induced susceptibility to infection via disruption of phagocyte functions. <i>Nature Immunology</i> , 2016, 17, 1361-1372.	7.0	114
36	Cell Adhesion and Migration Properties of $\beta$ 2-Integrin Negative Polymorphonuclear Granulocytes on Defined Extracellular Matrix Molecules. <i>Journal of Biological Chemistry</i> , 2001, 276, 18878-18887.	1.6	112

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37	FMNL formins boost lamellipodial force generation. <i>Nature Communications</i> , 2017, 8, 14832.	5.8	112
38	The microanatomy of T-cell responses. <i>Immunological Reviews</i> , 2008, 221, 26-43.	2.8	109
39	Lymph Node T Cell Homeostasis Relies on Steady State Homing of Dendritic Cells. <i>Immunity</i> , 2011, 35, 945-957.	6.6	96
40	Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. <i>Nature Immunology</i> , 2018, 19, 606-616.	7.0	96
41	Association of T-Zone Reticular Networks and Conduits with Ectopic Lymphoid Tissues in Mice and Humans. <i>American Journal of Pathology</i> , 2011, 178, 1662-1675.	1.9	93
42	Navigating in tissue mazes: chemoattractant interpretation in complex environments. <i>Current Opinion in Cell Biology</i> , 2015, 36, 93-102.	2.6	85
43	New paradigms in the establishment and maintenance of gradients during directed cell migration. <i>Current Opinion in Cell Biology</i> , 2014, 30, 33-40.	2.6	82
44	The extracellular matrix of the spleen as a potential organizer of immune cell compartments. <i>Seminars in Immunology</i> , 2008, 20, 4-13.	2.7	81
45	RhoH is important for positive thymocyte selection and T-cell receptor signaling. <i>Blood</i> , 2007, 109, 2346-2355.	0.6	76
46	Loss of Ena/VASP interferes with lamellipodium architecture, motility and integrin-dependent adhesion. <i>ELife</i> , 2020, 9, .	2.8	76
47	HIV-1 Nef Mimics an Integrin Receptor Signal that Recruits the Polycomb Group Protein Eed to the Plasma Membrane. <i>Molecular Cell</i> , 2004, 13, 179-190.	4.5	73
48	In Vitro Analysis of Chemotactic Leukocyte Migration in 3D Environments. <i>Methods in Molecular Biology</i> , 2011, 769, 149-165.	0.4	72
49	Microtubules control cellular shape and coherence in amoeboid migrating cells. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	70
50	A microfluidic device for measuring cell migration towards substrate-bound and soluble chemokine gradients. <i>Scientific Reports</i> , 2016, 6, 36440.	1.6	69
51	In Vivo Analysis of Uropod Function during Physiological T Cell Trafficking. <i>Journal of Immunology</i> , 2011, 187, 2356-2364.	0.4	68
52	Sialyltransferase ST3Gal-IV controls CXCR2-mediated firm leukocyte arrest during inflammation. <i>Journal of Experimental Medicine</i> , 2008, 205, 1435-1446.	4.2	66
53	Locally Triggered Release of the Chemokine CCL21 Promotes Dendritic Cell Transmigration across Lymphatic Endothelia. <i>Cell Reports</i> , 2017, 19, 902-909.	2.9	64
54	Characterization of a conduit system containing laminin-5 in the human thymus: a potential transport system for small molecules. <i>Journal of Cell Science</i> , 2006, 119, 1396-1405.	1.2	58

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55	Cytohesin-1 controls the activation of RhoA and modulates integrin-dependent adhesion and migration of dendritic cells. <i>Blood</i> , 2009, 113, 5801-5810.	0.6	57
56	Lymphatic exosomes promote dendritic cell migration along guidance cues. <i>Journal of Cell Biology</i> , 2018, 217, 2205-2221.	2.3	57
57	Persistent and polarized global actin flow is essential for directionality during cell migration. <i>Nature Cell Biology</i> , 2019, 21, 1370-1381.	4.6	57
58	The Sphingosine 1-Phosphate Receptor Agonist FTY720 Potently Inhibits Regulatory T Cell Proliferation In Vitro and In Vivo. <i>Journal of Immunology</i> , 2009, 183, 3751-3760.	0.4	56
59	$\beta$ 2 integrins: zip codes and signaling relay for blood cells. <i>Current Opinion in Cell Biology</i> , 2006, 18, 482-490.	2.6	52
60	Dendritic Cells Interpret Haptotactic Chemokine Gradients in a Manner Governed by Signal-to-Noise Ratio and Dependent on GRK6. <i>Current Biology</i> , 2017, 27, 1314-1325.	1.8	50
61	Multiple roles of filopodial dynamics in particle capture and phagocytosis and phenotypes of Cdc42 and Myo10 deletion. <i>Journal of Biological Chemistry</i> , 2017, 292, 7258-7273.	1.6	49
62	WASp triggers mechanosensitive actin patches to facilitate immune cell migration in dense tissues. <i>Developmental Cell</i> , 2022, 57, 47-62.e9.	3.1	47
63	Blood Vessels Pattern Heparan Sulfate Gradients between Their Apical and Basolateral Aspects. <i>PLoS ONE</i> , 2014, 9, e85699.	1.1	46
64	Langerhans cell maturation is accompanied by induction of N-cadherin and the transcriptional regulators of epithelial-mesenchymal transition ZEB1/2. <i>European Journal of Immunology</i> , 2014, 44, 553-560.	1.6	44
65	The Mammalian Actin-Binding Protein 1 Is Critical for Spreading and Intraluminal Crawling of Neutrophils under Flow Conditions. <i>Journal of Immunology</i> , 2012, 188, 4590-4601.	0.4	41
66	A fundamental role of mAbp1 in neutrophils: impact on $\beta$ 2 integrin-mediated phagocytosis and adhesion in vivo. <i>Blood</i> , 2009, 114, 4209-4220.	0.6	40
67	Cell migration: Fibroblasts find a new way to get ahead. <i>Journal of Cell Biology</i> , 2012, 197, 347-349.	2.3	37
68	Solution Structure of CCL19 and Identification of Overlapping CCR7 and PSGL-1 Binding Sites. <i>Biochemistry</i> , 2015, 54, 4163-4166.	1.2	37
69	A miR-155-dependent microRNA hierarchy in dendritic cell maturation and macrophage activation. <i>FEBS Letters</i> , 2014, 588, 632-640.	1.3	32
70	Serotonin receptor 5-HT7 regulates morphology and migratory properties of dendritic cells. <i>Journal of Cell Science</i> , 2015, 128, 2866-80.	1.2	32
71	Neurocan-GFP Fusion Protein. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 915-922.	1.3	29
72	EGF-stimulated migration in ovarian cancer cells is associated with decreased internalization, increased surface expression, and increased shedding of the urokinase plasminogen activator receptor. <i>Gynecologic Oncology</i> , 2006, 101, 28-39.	0.6	29

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73	Tissue inducible Lifeact expression allows visualization of actin dynamics in vivo and ex vivo. <i>European Journal of Cell Biology</i> , 2012, 91, 923-929.	1.6	29
74	Dendritic cell actin dynamics control contact duration and priming efficiency at the immunological synapse. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	25
75	Fast and efficient genetic engineering of hematopoietic precursor cells for the study of dendritic cell migration. <i>European Journal of Immunology</i> , 2018, 48, 1074-1077.	1.6	24
76	Î³-Parvin Is Dispensable for Hematopoiesis, Leukocyte Trafficking, and T-Cell-Dependent Antibody Response. <i>Molecular and Cellular Biology</i> , 2006, 26, 1817-1825.	1.1	22
77	The Rho regulator Myosin IXb enables nonlymphoid tissue seeding of protective CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2018, 215, 1869-1890.	4.2	22
78	Partial loss of actin nucleator actinâ€related protein 2/3 activity triggers blebbing in primary T lymphocytes. <i>Immunology and Cell Biology</i> , 2020, 98, 93-113.	1.0	20
79	Thymic medullar conduits-associated podoplanin promotes natural regulatory T cells. <i>Immunology Letters</i> , 2013, 154, 31-41.	1.1	19
80	Multitier mechanics control stromal adaptations in the swelling lymph node. <i>Nature Immunology</i> , 2022, 23, 1246-1255.	7.0	19
81	The lymph vessel network in mouse skin visualised with antibodies against the hyaluronan receptor LYVE-1. <i>Immunobiology</i> , 2008, 213, 715-728.	0.8	18
82	Micro-engineered â€pillar forestsâ€to study cell migration in complex but controlled 3D environments. <i>Methods in Cell Biology</i> , 2018, 147, 79-91.	0.5	18
83	Loss of Hem1 disrupts macrophage function and impacts migration, phagocytosis, and integrin-mediated adhesion. <i>Current Biology</i> , 2021, 31, 2051-2064.e8.	1.8	17
84	Phytohormone cytokinin guides microtubule dynamics during cell progression from proliferative to differentiated stage. <i>EMBO Journal</i> , 2020, 39, e104238.	3.5	15
85	Live Cell Imaging of Chemotactic Dendritic Cell Migration in Explanted Mouse Ear Preparations. <i>Methods in Molecular Biology</i> , 2013, 1013, 215-226.	0.4	14
86	Interstitial locomotion of leukocytes. <i>Immunology Letters</i> , 2011, 138, 32-34.	1.1	13
87	Shape and Function of Interstitial Chemokine CCL21 Gradients Are Independent of Heparan Sulfates Produced by Lymphatic Endothelium. <i>Frontiers in Immunology</i> , 2021, 12, 630002.	2.2	12
88	A novel Cre recombinase reporter mouse strain facilitates selective and efficient infection of primary immune cells with adenoviral vectors. <i>European Journal of Immunology</i> , 2015, 45, 1614-1620.	1.6	10
89	The lymph node filter revealed. <i>Nature Immunology</i> , 2015, 16, 338-340.	7.0	10
90	Gut Homeostasis: Active Migration of Intestinal Epithelial Cells in Tissue Renewal. <i>Current Biology</i> , 2019, 29, R1091-R1093.	1.8	10

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91	A Conduit to Amplify Innate Immunity. <i>Immunity</i> , 2013, 38, 853-854.	6.6	9
92	Quantitative Analysis of Dendritic Cell Haptotaxis. <i>Methods in Enzymology</i> , 2016, 570, 567-581.	0.4	8
93	The Dynamic Cytokine Niche. <i>Immunity</i> , 2017, 46, 519-520.	6.6	6
94	MEK signalling tunes actin treadmilling for interstitial lymphocyte migration. <i>EMBO Journal</i> , 2010, 29, 2861-2863.	3.5	5
95	Setting the Clock for Recirculating Lymphocytes. <i>Science Signaling</i> , 2011, 4, pe43.	1.6	5
96	Fragmented communication between immune cells. <i>Science</i> , 2015, 349, 1055-1056.	6.0	5
97	Cell Migration: Making the Waves. <i>Current Biology</i> , 2017, 27, R24-R25.	1.8	5
98	Geometrically complex microfluidic devices for the study of cell migration. <i>Protocol Exchange</i> , 0, , .	0.3	5
99	A Radical Break: Restraining Neutrophil Migration. <i>Developmental Cell</i> , 2016, 38, 448-450.	3.1	4
100	Editorial overview: Cell adhesion and migration. <i>Current Opinion in Cell Biology</i> , 2015, 36, iv-vi.	2.6	3
101	IgM's exit route. <i>Journal of Experimental Medicine</i> , 2018, 215, 2959-2961.	4.2	3
102	Modeling adhesion-independent cell migration. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 513-537.	1.7	3
103	T Cells: Bridge-and-Channel Commute to the White Pulp. <i>Immunity</i> , 2020, 52, 721-723.	6.6	3
104	Mechanistic description of spatial processes using integrative modelling of noise-corrupted imaging data. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180600.	1.5	2
105	Trafficking of Dendritic Cells. , 2006, , 184-215.		1
106	Relax and come in. <i>Nature</i> , 2014, 514, 441-442.	13.7	1
107	Formin's a Nuclear Protection. <i>Cell</i> , 2016, 167, 1448-1449.	13.5	1
108	A Fat Lot of Good for Wound Healing. <i>Developmental Cell</i> , 2018, 44, 405-406.	3.1	1

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109	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. ACS Applied Materials & Interfaces, 2021, 13, 35545-35560.	4.0	1
110	The cell sets the tone. ELife, 2018, 7, .	2.8	1
111	Zena Werb (1945â€“2020): Cell biology in context. Journal of Cell Biology, 2020, 219, .	2.3	1
112	Cells on the move in Philadelphia. Molecular Biology of the Cell, 2011, 22, 724-724.	0.9	0
113	The Neural Crest Pitches In to Remove Apoptotic Debris. Cell, 2019, 179, 51-53.	13.5	0
114	Engaging the front wheels to drive through fibrous terrain. Developmental Cell, 2021, 56, 723-725.	3.1	0
115	FTY720 Abrogates the Therapeutic Potential of Adoptively Transferred Treg Via Inhibition of IL-2 Induced in Vivo Expansion. Blood, 2008, 112, 2584-2584.	0.6	0
116	Migrating Platelets are Mechano-Scavengers That Collect and Bundle Bacteria. SSRN Electronic Journal, 0, , .	0.4	0