

# Michael Sixt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5564153/publications.pdf>

Version: 2024-02-01

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  | 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        |
| 2  | Multitier mechanics control stromal adaptations in the swelling lymph node. <i>Nature Immunology</i> , 2022, 23, 1246-1255.  | 7.0  | 19        |
| 3  | 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        |
| 4  | 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        |
| 5  | Engaging the front wheels to drive through fibrous terrain. <i>Developmental Cell</i> , 2021, 56, 723-725.   | 3.1  | 0         |
| 6  | 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        |
| 7  | Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35545-35560.              | 4.0  | 1         |
| 8  | 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        |
| 9  | Cellular locomotion using environmental topography. <i>Nature</i> , 2020, 582, 582-585.  | 13.7 | 150       |
| 10 | Modeling adhesion-independent cell migration. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 513-537.  | 1.7  | 3         |
| 11 | Microtubules control cellular shape and coherence in amoeboid migrating cells. <i>Journal of Cell Biology</i> , 2020, 219, .   | 2.3  | 70        |
| 12 | Phytohormone cytokinin guides microtubule dynamics during cell progression from proliferative to differentiated stage. <i>EMBO Journal</i> , 2020, 39, e104238.                        | 3.5  | 15        |
| 13 | Loss of Ena/VASP interferes with lamellipodium architecture, motility and integrin-dependent adhesion. <i>ELife</i> , 2020, 9, .   | 2.8  | 76        |
| 14 | T Cells: Bridge-and-Channel Commute to the White Pulp. <i>Immunity</i> , 2020, 52, 721-723.  | 6.6  | 3         |
| 15 | Zena Werb (1945â€2020): Cell biology in context. <i>Journal of Cell Biology</i> , 2020, 219, .   | 2.3  | 1         |
| 16 | Gut Homeostasis: Active Migration of Intestinal Epithelial Cells in Tissue Renewal. <i>Current Biology</i> , 2019, 29, R1091-R1093.  | 1.8  | 10        |
| 17 | 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        |
| 18 | Mechanisms of 3D cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 738-752.   | 16.1 | 539       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | The Neural Crest Pitches In to Remove Apoptotic Debris. <i>Cell</i> , 2019, 179, 51-53.   | 13.5 | 0         |
| 20 | Nuclear positioning facilitates amoeboid migration along the path of least resistance. <i>Nature</i> , 2019, 568, 546-550.  | 13.7 | 212       |
| 21 | A Fat Lot of Good for Wound Healing. <i>Developmental Cell</i> , 2018, 44, 405-406.   | 3.1  | 1         |
| 22 | Lymphatic exosomes promote dendritic cell migration along guidance cues. <i>Journal of Cell Biology</i> , 2018, 217, 2205-2221.   | 2.3  | 57        |
| 23 | 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        |
| 24 | Lymph node blood vessels provide exit routes for metastatic tumor cell dissemination in mice. <i>Science</i> , 2018, 359, 1408-1411.  | 6.0  | 304       |
| 25 | 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         |
| 26 | IgM's exit route. <i>Journal of Experimental Medicine</i> , 2018, 215, 2959-2961.   | 4.2  | 3         |
| 27 | Micro-engineered "pillar forests" to study cell migration in complex but controlled 3D environments. <i>Methods in Cell Biology</i> , 2018, 147, 79-91.                               | 0.5  | 18        |
| 28 | 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        |
| 29 | 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        |
| 30 | The cell sets the tone. <i>ELife</i> , 2018, 7, .   | 2.8  | 1         |
| 31 | Cell Migration: Making the Waves. <i>Current Biology</i> , 2017, 27, R24-R25.   | 1.8  | 5         |
| 32 | The Dynamic Cytokine Niche. <i>Immunity</i> , 2017, 46, 519-520.  | 6.6  | 6         |
| 33 | 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        |
| 34 | 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        |
| 35 | FMNL formins boost lamellipodial force generation. <i>Nature Communications</i> , 2017, 8, 14832.   | 5.8  | 112       |
| 36 | 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        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Load Adaptation of Lamellipodial Actin Networks. <i>Cell</i> , 2017, 171, 188-200.e16.  | 13.5 | 202       |
| 38 | Migrating Platelets Are Mechano-scavengers that Collect and Bundle Bacteria. <i>Cell</i> , 2017, 171, 1368-1382.e23.  | 13.5 | 251       |
| 39 | A microfluidic device for measuring cell migration towards substrate-bound and soluble chemokine gradients. <i>Scientific Reports</i> , 2016, 6, 36440.   | 1.6  | 69        |
| 40 | Formin™ a Nuclear Protection. <i>Cell</i> , 2016, 167, 1448-1449.   | 13.5 | 1         |
| 41 | Focal Adhesion–Independent Cell Migration. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 469-490.  | 4.0  | 270       |
| 42 | A Radical Break: Restraining Neutrophil Migration. <i>Developmental Cell</i> , 2016, 38, 448-450.   | 3.1  | 4         |
| 43 | 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       |
| 44 | Heme drives hemolysis-induced susceptibility to infection via disruption of phagocyte functions. <i>Nature Immunology</i> , 2016, 17, 1361-1372.  | 7.0  | 114       |
| 45 | Intralymphatic CCL21 Promotes Tissue Egress of Dendritic Cells through Afferent Lymphatic Vessels. <i>Cell Reports</i> , 2016, 14, 1723-1734.   | 2.9  | 143       |
| 46 | Polysialylation controls dendritic cell trafficking by regulating chemokine recognition. <i>Science</i> , 2016, 351, 186-190.   | 6.0  | 123       |
| 47 | Quantitative Analysis of Dendritic Cell Haptotaxis. <i>Methods in Enzymology</i> , 2016, 570, 567-581.  | 0.4  | 8         |
| 48 | Navigating in tissue mazes: chemoattractant interpretation in complex environments. <i>Current Opinion in Cell Biology</i> , 2015, 36, 93-102.  | 2.6  | 85        |
| 49 | Cortical Contractility Triggers a Stochastic Switch to Fast Amoeboid Cell Motility. <i>Cell</i> , 2015, 160, 673-685.   | 13.5 | 345       |
| 50 | 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        |
| 51 | Solution Structure of CCL19 and Identification of Overlapping CCR7 and PSGL-1 Binding Sites. <i>Biochemistry</i> , 2015, 54, 4163-4166.   | 1.2  | 37        |
| 52 | 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       |
| 53 | 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        |
| 54 | Actin Flows Mediate a Universal Coupling between Cell Speed and Cell Persistence. <i>Cell</i> , 2015, 161, 374-386.   | 13.5 | 369       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | The lymph node filter revealed. <i>Nature Immunology</i> , 2015, 16, 338-340.   | 7.0  | 10        |
| 56 | Editorial overview: Cell adhesion and migration. <i>Current Opinion in Cell Biology</i> , 2015, 36, iv-vi.  | 2.6  | 3         |
| 57 | Fragmented communication between immune cells. <i>Science</i> , 2015, 349, 1055-1056.   | 6.0  | 5         |
| 58 | A miR-155-dependent microRNA hierarchy in dendritic cell maturation and macrophage activation. <i>FEBS Letters</i> , 2014, 588, 632-640.  | 1.3  | 32        |
| 59 | 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        |
| 60 | Relax and come in. <i>Nature</i> , 2014, 514, 441-442.  | 13.7 | 1         |
| 61 | 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        |
| 62 | Blood Vessels Pattern Heparan Sulfate Gradients between Their Apical and Basolateral Aspects. <i>PLoS ONE</i> , 2014, 9, e85699.  | 1.1  | 46        |
| 63 | Thymic medullar conduits-associated podoplanin promotes natural regulatory T cells. <i>Immunology Letters</i> , 2013, 154, 31-41.   | 1.1  | 19        |
| 64 | 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        |
| 65 | Interstitial Dendritic Cell Guidance by Haptotactic Chemokine Gradients. <i>Science</i> , 2013, 339, 328-332.   | 6.0  | 474       |
| 66 | A Conduit to Amplify Innate Immunity. <i>Immunity</i> , 2013, 38, 853-854.  | 6.6  | 9         |
| 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 | 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       |
| 69 | 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        |
| 70 | 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        |
| 71 | In Vitro Analysis of Chemotactic Leukocyte Migration in 3D Environments. <i>Methods in Molecular Biology</i> , 2011, 769, 149-165.  | 0.4  | 72        |
| 72 | 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        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Lymph Node T Cell Homeostasis Relies on Steady State Homing of Dendritic Cells. <i>Immunity</i> , 2011, 35, 945-957.   | 6.6  | 96        |
| 74 | CAMTA1 is a novel tumour suppressor regulated by miR-9/9<sup>*</sup> in glioblastoma stem cells. <i>EMBO Journal</i> , 2011, 30, 4309-4322.  | 3.5  | 141       |
| 75 | Interstitial locomotion of leukocytes. <i>Immunology Letters</i> , 2011, 138, 32-34.   | 1.1  | 13        |
| 76 | Cells on the move in Philadelphia. <i>Molecular Biology of the Cell</i> , 2011, 22, 724-724.   | 0.9  | 0         |
| 77 | Setting the Clock for Recirculating Lymphocytes. <i>Science Signaling</i> , 2011, 4, pe43.   | 1.6  | 5         |
| 78 | In Vivo Analysis of Uropod Function during Physiological T Cell Trafficking. <i>Journal of Immunology</i> , 2011, 187, 2356-2364.  | 0.4  | 68        |
| 79 | Immobilized Chemokine Fields and Soluble Chemokine Gradients Cooperatively Shape Migration Patterns of Dendritic Cells. <i>Immunity</i> , 2010, 32, 703-713.   | 6.6  | 282       |
| 80 | MEK signalling tunes actin treadmilling for interstitial lymphocyte migration. <i>EMBO Journal</i> , 2010, 29, 2861-2863.  | 3.5  | 5         |
| 81 | Mechanisms of force generation and force transmission during interstitial leukocyte migration. <i>EMBO Reports</i> , 2010, 11, 744-750.  | 2.0  | 131       |
| 82 | Lifect mice for studying F-actin dynamics. <i>Nature Methods</i> , 2010, 7, 168-169.   | 9.0  | 286       |
| 83 | 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       |
| 84 | 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       |
| 85 | 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        |
| 86 | $\beta$ 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       |
| 87 | 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       |
| 88 | Mechanical modes of amoeboid cell migration. <i>Current Opinion in Cell Biology</i> , 2009, 21, 636-644.   | 2.6  | 569       |
| 89 | Adaptive force transmission in amoeboid cell migration. <i>Nature Cell Biology</i> , 2009, 11, 1438-1443.  | 4.6  | 267       |
| 90 | 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       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 91  | Preformed portals facilitate dendritic cell entry into afferent lymphatic vessels. <i>Journal of Experimental Medicine</i> , 2009, 206, 2925-2935.   | 4.2  | 256       |
| 92  | 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        |
| 93  | Cdc42-dependent leading edge coordination is essential for interstitial dendritic cell migration. <i>Blood</i> , 2009, 113, 5703-5710.   | 0.6  | 133       |
| 94  | 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        |
| 95  | The microanatomy of T-cell responses. <i>Immunological Reviews</i> , 2008, 221, 26-43.   | 2.8  | 109       |
| 96  | Rapid leukocyte migration by integrin-independent flowing and squeezing. <i>Nature</i> , 2008, 453, 51-55.   | 13.7 | 1,227     |
| 97  | Lifect: a versatile marker to visualize F-actin. <i>Nature Methods</i> , 2008, 5, 605-607.   | 9.0  | 1,928     |
| 98  | 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        |
| 99  | 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        |
| 100 | Sialyltransferase ST3Gal-IV controls CXCR2-mediated firm leukocyte arrest during inflammation. <i>Journal of Experimental Medicine</i> , 2008, 205, 1435-1446.   | 4.2  | 66        |
| 101 | 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       |
| 102 | FTY720 Abrogates the Therapeutic Potential of Adoptively Transferred Treg Via Inhibition of IL-2 Induced in Vivo Expansion. <i>Blood</i> , 2008, 112, 2584-2584.   | 0.6  | 0         |
| 103 | RhoH is important for positive thymocyte selection and T-cell receptor signaling. <i>Blood</i> , 2007, 109, 2346-2355.   | 0.6  | 76        |
| 104 | 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       |
| 105 | Trafficking of Dendritic Cells. , 2006, , 184-215.   |      | 1         |
| 106 | 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        |
| 107 | $\beta$ 1 integrins: zip codes and signaling relay for blood cells. <i>Current Opinion in Cell Biology</i> , 2006, 18, 482-490.  | 2.6  | 52        |
| 108 | $\beta$ 3-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        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | 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        |
| 110 | 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       |
| 111 | Neurocanâ€“GFP Fusion Protein. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 915-922.  | 1.3 | 29        |
| 112 | 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        |
| 113 | Endothelial Cell Laminin Isoforms, Laminins 8 and 10, Play Decisive Roles in T Cell Recruitment across the Bloodâ€“Brain Barrier in Experimental Autoimmune Encephalomyelitis. <i>Journal of Cell Biology</i> , 2001, 153, 933-946. | 2.3 | 458       |
| 114 | Cell Adhesion and Migration Properties of Î²2-Integrin Negative Polymorphonuclear Granulocytes on Defined Extracellular Matrix Molecules. <i>Journal of Biological Chemistry</i> , 2001, 276, 18878-18887.                          | 1.6 | 112       |
| 115 | Geometrically complex microfluidic devices for the study of cell migration. <i>Protocol Exchange</i> , 0, , .   | 0.3 | 5         |
| 116 | Migrating Platelets are Mechano-Scavengers That Collect and Bundle Bacteria. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4 | 0         |