

# Jens V Stein

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

6,341  
citations

66343

42  
h-index

69250

77  
g-index

105  
all docs

105  
docs citations

105  
times ranked

9348  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The Cc Chemokine Thymus-Derived Chemotactic Agent 4 (Tca-4, Secondary Lymphoid Tissue Chemokine,) Tj ETQq1 1 0.784314 rgBT<br>Lymphocytes in Peripheral Lymph Node High Endothelial Venules. <i>Journal of Experimental Medicine</i> , 2000, 191, 61-76. | 8.5  | 406       |
| 2  | The outer mucus layer hosts a distinct intestinal microbial niche. <i>Nature Communications</i> , 2015, 6, 8292.   | 12.8 | 390       |
| 3  | How chemokines invite leukocytes to dance. <i>Nature Immunology</i> , 2008, 9, 953-959.  | 14.5 | 305       |
| 4  | Lymph node blood vessels provide exit routes for metastatic tumor cell dissemination in mice. <i>Science</i> , 2018, 359, 1408-1411.   | 12.6 | 304       |
| 5  | A network of trans-cortical capillaries as mainstay for blood circulation in long bones. <i>Nature Metabolism</i> , 2019, 1, 236-250.  | 11.9 | 221       |
| 6  | Differential Requirements for DOCK2 and Phosphoinositide-3-Kinase $\hat{I}^3$ during T and B Lymphocyte Homing. <i>Immunity</i> , 2004, 21, 429-441.   | 14.3 | 219       |
| 7  | Maturation of Lymph Node Fibroblastic Reticular Cells from Myofibroblastic Precursors Is Critical for Antiviral Immunity. <i>Immunity</i> , 2013, 38, 1013-1024.   | 14.3 | 219       |
| 8  | APRIL modulates B and T cell immunity. <i>Journal of Clinical Investigation</i> , 2002, 109, 1587-1598.  | 8.2  | 216       |
| 9  | Chemokine control of lymphocyte trafficking: a general overview. <i>Immunology</i> , 2005, 116, 1-12.  | 4.4  | 213       |
| 10 | DOCK8 is a Cdc42 activator critical for interstitial dendritic cell migration during immune responses. <i>Blood</i> , 2012, 119, 4451-4461.  | 1.4  | 200       |
| 11 | L-selectin-negative CCR7 $\hat{a}$ ' effector and memory CD8+ T cells enter reactive lymph nodes and kill dendritic cells. <i>Nature Immunology</i> , 2007, 8, 743-752.  | 14.5 | 183       |
| 12 | A central role for DOCK2 during interstitial lymphocyte motility and sphingosine-1-phosphate $\hat{a}$ ' mediated egress. <i>Journal of Experimental Medicine</i> , 2007, 204, 497-510.  | 8.5  | 144       |
| 13 | Global lymphoid tissue remodeling during a viral infection is orchestrated by a B cell $\hat{a}$ ' lymphotoxin-dependent pathway. <i>Blood</i> , 2010, 115, 4725-4733.   | 1.4  | 136       |
| 14 | Endothelial cell $\hat{a}$ ' specific lymphotoxin- $\hat{I}^2$ receptor signaling is critical for lymph node and high endothelial venule formation. <i>Journal of Experimental Medicine</i> , 2013, 210, 465-473.  | 8.5  | 135       |
| 15 | CXCL12 Mediates CCR7-independent Homing of Central Memory Cells, But Not Naive T Cells, in Peripheral Lymph Nodes. <i>Journal of Experimental Medicine</i> , 2004, 199, 1113-1120.   | 8.5  | 110       |
| 16 | L-selectin $\hat{a}$ ' mediated Leukocyte Adhesion In Vivo: Microvillous Distribution Determines Tethering Efficiency, But Not Rolling Velocity. <i>Journal of Experimental Medicine</i> , 1999, 189, 37-50.   | 8.5  | 109       |
| 17 | DOCK2 regulates Rac activation and cytoskeletal reorganization through interaction with ELMO1. <i>Blood</i> , 2003, 102, 2948-2950.  | 1.4  | 107       |
| 18 | pMHC affinity controls duration of CD8+ T cell $\hat{a}$ ' DC interactions and imprints timing of effector differentiation versus expansion. <i>Journal of Experimental Medicine</i> , 2016, 213, 2811-2829.   | 8.5  | 101       |

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|----|---|------|-----------|
| 19 | Topological Small-World Organization of the Fibroblastic Reticular Cell Network Determines Lymph Node Functionality. <i>PLoS Biology</i> , 2016, 14, e1002515.  | 5.6  | 96        |
| 20 | Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. <i>Nature Immunology</i> , 2018, 19, 606-616.   | 14.5 | 96        |
| 21 | Comprehensive analysis of lymph node stroma-expressed Ig superfamily members reveals redundant and nonredundant roles for ICAM-1, ICAM-2, and VCAM-1 in lymphocyte homing. <i>Blood</i> , 2010, 116, 915-925.                     | 1.4  | 95        |
| 22 | Vav1 and Rac Control Chemokine-promoted T Lymphocyte Adhesion Mediated by the Integrin $\alpha 4 \beta 1$ . <i>Molecular Biology of the Cell</i> , 2005, 16, 3223-3235.   | 2.1  | 89        |
| 23 | Distinct molecular composition of blood and lymphatic vascular endothelial cell junctions establishes specific functional barriers within the peripheral lymph node. <i>European Journal of Immunology</i> , 2008, 38, 2142-2155. | 2.9  | 87        |
| 24 | Paracrine effects of mesenchymal stem cells enhance vascular regeneration in ischemic murine skin. <i>Microvascular Research</i> , 2012, 83, 267-275.   | 2.5  | 86        |
| 25 | Critical roles for Rac GTPases in T-cell migration to and within lymph nodes. <i>Blood</i> , 2010, 116, 5536-5547.  | 1.4  | 85        |
| 26 | Statins Induce Regulatory T Cell Recruitment via a CCL1 Dependent Pathway. <i>Journal of Immunology</i> , 2008, 181, 3524-3534.   | 0.8  | 81        |
| 27 | CCR7-mediated physiological lymphocyte homing involves activation of a tyrosine kinase pathway. <i>Blood</i> , 2003, 101, 38-44.  | 1.4  | 80        |
| 28 | Mouse mesenchymal stem cells inhibit high endothelial cell activation and lymphocyte homing to lymph nodes by releasing TIMP-1. <i>Leukemia</i> , 2016, 30, 1143-1154.  | 7.2  | 79        |
| 29 | CCL21 mediates CD4+ T-cell costimulation via a DOCK2/Rac-dependent pathway. <i>Blood</i> , 2009, 114, 580-588.  | 1.4  | 74        |
| 30 | Delivering adjuvants and antigens in separate nanoparticles eliminates the need of physical linkage for effective vaccination. <i>Journal of Controlled Release</i> , 2017, 251, 92-100.  | 9.9  | 69        |
| 31 | In Vivo Analysis of Uropod Function during Physiological T Cell Trafficking. <i>Journal of Immunology</i> , 2011, 187, 2356-2364.   | 0.8  | 68        |
| 32 | The chemokine receptors $\alpha 1 \text{ ACKR} 2$ and $\alpha 1 \text{ CCR} 2$ reciprocally regulate lymphatic vessel density. <i>EMBO Journal</i> , 2014, 33, 2564-2580.   | 7.8  | 65        |
| 33 | HIV-1 Nef interferes with T-lymphocyte circulation through confined environments in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18541-18546.                        | 7.1  | 63        |
| 34 | The kinases NDR1/2 act downstream of the Hippo homolog MST1 to mediate both egress of thymocytes from the thymus and lymphocyte motility. <i>Science Signaling</i> , 2015, 8, ra100.  | 3.6  | 63        |
| 35 | Thromboxane A2 acts as tonic immunoregulator by preferential disruption of low-avidity CD4+ T cell-dendritic cell interactions. <i>Journal of Experimental Medicine</i> , 2014, 211, 2507-2517.                                   | 8.5  | 61        |
| 36 | Salivary gland macrophages and tissue-resident CD8 <sup>+</sup> T cells cooperate for homeostatic organ surveillance. <i>Science Immunology</i> , 2020, 5, .  | 11.9 | 57        |

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|----|--|------|-----------|
| 37 | A Novel Cervical Spinal Cord Window Preparation Allows for Two-Photon Imaging of T-Cell Interactions with the Cervical Spinal Cord Microvasculature during Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2017, 8, 406.       | 4.8  | 56        |
| 38 | Lymph Node Stromal Cells Negatively Regulate Antigen-Specific CD4+ T Cell Responses. <i>Journal of Immunology</i> , 2014, 193, 1636-1644.  | 0.8  | 54        |
| 39 | WNK1 kinase balances T cell adhesion versus migration in vivo. <i>Nature Immunology</i> , 2016, 17, 1075-1083.   | 14.5 | 54        |
| 40 | T cells loaded with magnetic nanoparticles are retained in peripheral lymph nodes by the application of a magnetic field. <i>Journal of Nanobiotechnology</i> , 2019, 17, 14.  | 9.1  | 54        |
| 41 | B cell zone reticular cell microenvironments shape CXCL13 gradient formation. <i>Nature Communications</i> , 2020, 11, 3677.   | 12.8 | 52        |
| 42 | Influenza Vaccination Induces NK-Cell-Mediated Type-II IFN Response that Regulates Humoral Immunity in an IL-6-Dependent Manner. <i>Cell Reports</i> , 2019, 26, 2307-2315.e5.   | 6.4  | 51        |
| 43 | Real-time tissue offset correction system for intravital multiphoton microscopy. <i>Journal of Immunological Methods</i> , 2016, 438, 35-41.   | 1.4  | 45        |
| 44 | OPTiSPIM: integrating optical projection tomography in light sheet microscopy extends specimen characterization to nonfluorescent contrasts. <i>Optics Letters</i> , 2014, 39, 1053.   | 3.3  | 44        |
| 45 | CD69 Modulates Sphingosine-1-Phosphate-Induced Migration of Skin Dendritic Cells. <i>Journal of Investigative Dermatology</i> , 2011, 131, 1503-1512.  | 0.7  | 43        |
| 46 | DOCK2 is Required for Chemokine-Promoted Human T Lymphocyte Adhesion Under Shear Stress Mediated by the Integrin $\alpha 4 \beta 1$ . <i>Journal of Immunology</i> , 2006, 177, 5215-5225.   | 0.8  | 42        |
| 47 | Vaccination with nanoparticles combined with micro-adjuvants protects against cancer. , 2019, 7, 114.  |      | 41        |
| 48 | Dynamic intravital imaging of cell-cell interactions in the lymph node. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 12-20.  | 2.9  | 40        |
| 49 | Intercellular Adhesion Molecule-1 (ICAM-1) and ICAM-2 Differentially Contribute to Peripheral Activation and CNS Entry of Autoaggressive Th1 and Th17 Cells in Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2019, 10, 3056. | 4.8  | 40        |
| 50 | Optical projection tomography reveals dynamics of HEV growth after immunization with protein plus CFA and features shared with HEVs in acute autoinflammatory lymphadenopathy. <i>Frontiers in Immunology</i> , 2012, 3, 282.                              | 4.8  | 39        |
| 51 | Intravital and Whole-Organ Imaging Reveals Capture of Melanoma-Derived Antigen by Lymph Node Subcapsular Macrophages Leading to Widespread Deposition on Follicular Dendritic Cells. <i>Frontiers in Immunology</i> , 2015, 6, 114.                        | 4.8  | 36        |
| 52 | A global "imaging" view on systems approaches in immunology. <i>European Journal of Immunology</i> , 2012, 42, 3116-3125.  | 2.9  | 32        |
| 53 | Naive B-cell trafficking is shaped by local chemokine availability and LFA-1-independent stromal interactions. <i>Blood</i> , 2013, 121, 4101-4109.  | 1.4  | 32        |
| 54 | Automated Recovery of the Center of Rotation in Optical Projection Tomography in the Presence of Scattering. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 198-204.   | 6.3  | 31        |

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|----|---|------|-----------|
| 55 | Dynamic spherical harmonics approach for shape classification of migrating cells. <i>Scientific Reports</i> , 2020, 10, 6072.   | 3.3  | 28        |
| 56 | The Dual Role of High Endothelial Venules in Cancer Progression versus Immunity. <i>Trends in Cancer</i> , 2021, 7, 214-225.  | 7.4  | 28        |
| 57 | Light sheet fluorescence microscopy for in situ cell interaction analysis in mouse lymph nodes. <i>Journal of Immunological Methods</i> , 2016, 431, 1-10.  | 1.4  | 27        |
| 58 | Dendritic cell actin dynamics control contact duration and priming efficiency at the immunological synapse. <i>Journal of Cell Biology</i> , 2021, 220, .   | 5.2  | 25        |
| 59 | The Rho regulator Myosin IXb enables nonlymphoid tissue seeding of protective CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2018, 215, 1869-1890.   | 8.5  | 22        |
| 60 | Antigen Availability and DOCK2-Driven Motility Govern CD4+ T Cell Interactions with Dendritic Cells In Vivo. <i>Journal of Immunology</i> , 2017, 199, 520-530.   | 0.8  | 21        |
| 61 | Fam65b Phosphorylation Relieves Tonic RhoA Inhibition During T Cell Migration. <i>Frontiers in Immunology</i> , 2018, 9, 2001.  | 4.8  | 20        |
| 62 | Multitier mechanics control stromal adaptations in the swelling lymph node. <i>Nature Immunology</i> , 2022, 23, 1246-1255.   | 14.5 | 19        |
| 63 | Quantitative Measurements in 3-Dimensional Datasets of Mouse Lymph Nodes Resolve Organ-Wide Functional Dependencies. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-8.   | 1.3  | 16        |
| 64 | Efficient T cell priming and activation requires signaling through prostaglandin E2 (EP) receptors. <i>Immunology and Cell Biology</i> , 2016, 94, 39-51.   | 2.3  | 15        |
| 65 | In vivo TCR Signaling in CD4+ T Cells Imprints a Cell-Intrinsic, Transient Low-Motility Pattern Independent of Chemokine Receptor Expression Levels, or Microtubular Network, Integrin, and Protein Kinase C Activity. <i>Frontiers in Immunology</i> , 2015, 6, 297. | 4.8  | 14        |
| 66 | In Vivo Function of the Lipid Raft Protein Flotillin-1 during CD8+ T Cell-Mediated Host Surveillance. <i>Journal of Immunology</i> , 2019, 203, 2377-2387.  | 0.8  | 14        |
| 67 | Leukocyte Tracking Database, a collection of immune cell tracks from intravital 2-photon microscopy videos. <i>Scientific Data</i> , 2018, 5, 180129.   | 5.3  | 13        |
| 68 | VLA-4 mediated adhesion of melanoma cells on the blood-brain barrier is the critical cue for melanoma cell intercalation and barrier disruption. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1995-2010.  | 4.3  | 13        |
| 69 | A minimum number of autoimmune T cells to induce autoimmunity?. <i>Cellular Immunology</i> , 2017, 316, 21-31.  | 3.0  | 12        |
| 70 | Toolbox for In Vivo Imaging of Host-Parasite Interactions at Multiple Scales. <i>Trends in Parasitology</i> , 2019, 35, 193-212.  | 3.3  | 12        |
| 71 | HIV-1 Nef Disrupts CD4+ T Lymphocyte Polarity, Extravasation, and Homing to Lymph Nodes via Its Nef-Associated Kinase Complex Interface. <i>Journal of Immunology</i> , 2018, 201, 2731-2743.   | 0.8  | 11        |
| 72 | CD169 <sup>+</sup> macrophages in lymph node and spleen critically depend on dual RANK and LTbetaR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .   | 7.1  | 11        |

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|----|---|------|-----------|
| 73 | Morphology and Hemodynamics during Vascular Regeneration in Critically Ischemic Murine Skin Studied by Intravital Microscopy Techniques. <i>European Surgical Research</i> , 2011, 47, 222-230.                         | 1.3  | 10        |
| 74 | Oral Versus Intra-gastric Inoculation: Similar Pathways of <i>Trypanosoma cruzi</i> Experimental Infection? From Target Tissues, Parasite Evasion, and Immune Response. <i>Frontiers in Immunology</i> , 2018, 9, 1734. | 4.8  | 10        |
| 75 | Immune synapse instructs epigenomic and transcriptomic functional reprogramming in dendritic cells. <i>Science Advances</i> , 2021, 7, .  | 10.3 | 10        |
| 76 | Janus kinases 1 and 2 regulate chemokine-mediated integrin activation and naïve T cell homing. <i>European Journal of Immunology</i> , 2013, 43, 1745-1757.   | 2.9  | 9         |
| 77 | TNF blockade mediates bone protection in antigen-induced arthritis by reducing osteoclast precursor supply. <i>Bone</i> , 2018, 107, 56-65.   | 2.9  | 8         |
| 78 | 3D imaging of undissected optically cleared <i>Anopheles stephensi</i> mosquitoes and midguts infected with <i>Plasmodium</i> parasites. <i>PLoS ONE</i> , 2020, 15, e0238134.  | 2.5  | 8         |
| 79 | T Cell Motility as Modulator of Interactions with Dendritic Cells. <i>Frontiers in Immunology</i> , 2015, 6, 559.   | 4.8  | 7         |
| 80 | Initial Viral Inoculum Determines Kinapse- and Synapse-Like T Cell Motility in Reactive Lymph Nodes. <i>Frontiers in Immunology</i> , 2019, 10, 2086.   | 4.8  | 6         |
| 81 | Microbial uptake in oral mucosa-draining lymph nodes leads to rapid release of cytotoxic CD8 <sup>+</sup> T cells lacking a gut-homing phenotype. <i>Science Immunology</i> , 2022, 7, .                                | 11.9 | 6         |
| 82 | Sensory innervation of the dorsal longitudinal ligament and the meninges in the lumbar spine of the dog. <i>Histochemistry and Cell Biology</i> , 2014, 142, 433-447.   | 1.7  | 5         |
| 83 | Organ-Specific Surveillance and Long-Term Residency Strategies Adapted by Tissue-Resident Memory CD8 <sup>+</sup> T Cells. <i>Frontiers in Immunology</i> , 2021, 12, 626019.   | 4.8  | 5         |
| 84 | The Tec Kinase Itk Integrates Naïve T Cell Migration and In Vivo Homeostasis. <i>Frontiers in Immunology</i> , 2021, 12, 716405.  | 4.8  | 5         |
| 85 | Preparation of Murine Submandibular Salivary Gland for Upright Intravital Microscopy. <i>Journal of Visualized Experiments</i> , 2018, , .  | 0.3  | 4         |
| 86 | Regulation of global CD8 <sup>+</sup> T cell positioning by the actomyosin cytoskeleton. <i>Immunological Reviews</i> , 2019, 289, 232-249.   | 6.0  | 4         |
| 87 | Basic Rules of T Cell Migration. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2016, , 1-19.   | 0.1  | 3         |
| 88 | How to be Naive. <i>Immunity</i> , 2009, 31, 9-11.  | 14.3 | 2         |
| 89 | Comprehensive assessment of quantum dots for multispectral twophoton imaging of dynamic leukocyte migration in lymph nodes. <i>Intravital</i> , 2013, 2, e25745.  | 2.0  | 2         |
| 90 | Close encounters of the 3D kind. <i>Blood</i> , 2009, 113, 5698-5699.   | 1.4  | 1         |

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|----|---|-----|-----------|
| 91 | Development of Lymph Node Circulation and Homing Mechanisms. , 2011, , 75-94.   |     | 1         |
| 92 | Ibrutinib Does Not Impact CCR7-Mediated Homeostatic Migration in T-Cells from Chronic Lymphocytic Leukemia Patients. Cancers, 2022, 14, 2729. | 3.7 | 1         |
| 93 | Intravital Microscopy and In Vitro Flow Chamber: Techniques to Study Leukocyte Adhesion Under Flow and in Real Time. , 2006, , 455-471.       |     | 0         |
| 94 | Simulating CXCR5 Dynamics in Complex Tissue Microenvironments. Frontiers in Immunology, 2021, 12, 703088.                                     | 4.8 | 0         |
| 95 | Title is missing!. , 2020, 15, e0238134.  |     | 0         |
| 96 | Title is missing!. , 2020, 15, e0238134.  |     | 0         |
| 97 | Title is missing!. , 2020, 15, e0238134.  |     | 0         |
| 98 | Title is missing!. , 2020, 15, e0238134.  |     | 0         |