# Jonathan S Reichner

List of Publications by Year
in descending order



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|---|---|---|---|
| 99 papers | 5,284 citations | 117453 34 h-index | 88477 70 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 8609 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Use of Ly6G-specific monoclonal antibody to deplete neutrophils in mice. Journal of Leukocyte Biology, 2008, 83, 64-70. | 1.5 | 913 |
| 2 | The phenotype of murine wound macrophages. Journal of Leukocyte Biology, 2009, 87, 59-67. | 1.5 | 371 |
| 3 | Highly Stoichiometric, Stable, and Specific Association of Integrin Î±3Î²1 with CD151 Provides a Major Link to Phosphatidylinositol 4-Kinase, and May Regulate Cell Migration. Molecular Biology of the Cell, 1998, 9, 2751-2765. | 0.9 | 296 |
| 4 | An Extracellular Matrixâ€“Based Mechanism of Rapid Neutrophil Extracellular Trap Formation in Response toCandida albicans. Journal of Immunology, 2013, 190, 4136-4148. | 0.4 | 281 |
| 5 | HIF-1 expression in healing wounds: HIF-1Î± induction in primary inflammatory cells by TNF-Î±. American Journal of Physiology - Cell Physiology, 2001, 281, C1971-C1977. | 2.1 | 173 |
| 6 | Neutrophil morphology and migration are affected by substrate elasticity. Blood, 2009, 114, 1387-1395. | 0.6 | 169 |
| 7 | Role of nitric oxide in mediation of macrophage cytotoxicity and apoptosis. , 1998, 17, 39-53. | | 160 |
| 8 | Macrophage-Induced Neutrophil Apoptosis. Journal of Immunology, 2000, 165, 435-441. | 0.4 | 143 |
| 9 | Shock-Induced Neutrophil Mediated Priming for Acute Lung Injury in Mice. American Journal of Pathology, 2002, 161, 2283-2294. | 1.9 | 139 |
| 10 | Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. Journal of Experimental Medicine, 2008, 205, 195-205. | 4.2 | 133 |
| 11 | Wound-Induced Tumor Progression. Archives of Surgery, 1998, 133, 383-9. | 2.3 | 118 |
| 12 | Cl-Amidine Prevents Histone 3 Citrullination and Neutrophil Extracellular Trap Formation, and Improves Survival in a Murine Sepsis Model. Journal of Innate Immunity, 2017, 9, 22-32. | 1.8 | 118 |
| 13 | Neutrophil extracellular traps, B cells, and type I interferons contribute to immune dysregulation in hidradenitis suppurativa. Science Translational Medicine, 2019, 11, . | 5.8 | 111 |
| 14 | Recombinant human activated protein C inhibits integrin-mediated neutrophil migration. Blood, 2009, 113, 4078-4085. | 0.6 | 108 |
| 15 | Macrophage phagocytosis of wound neutrophils. Journal of Leukocyte Biology, 1999, 65, 35-42. | 1.5 | 104 |
| 16 | Disruption of Interleukin-1 Signaling Improves the Quality of Wound Healing. American Journal of Pathology, 2009, 174, 2129-2136. | 1.9 | 102 |
| 17 | CD11b activation suppresses TLR-dependent inflammation and autoimmunity in systemic lupus erythematosus. Journal of Clinical Investigation, 2017, 127, 1271-1283. | 3.9 | 100 |
| 18 | Molecular and Metabolic Evidence for the Restricted Expression of Inducible Nitric Oxide Synthase in Healing Wounds. American Journal of Pathology, 1999, 154, 1097-1104. | 1.9 | 90 |

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|---|---|---|---|
| 19 | Modulation of Macrophage Phenotype by Soluble Product(s) Released from Neutrophils. Journal of Immunology, 2005, 174, 2265-2272. | 0.4 | 86 |
| 20 | Distinct arginase isoforms expressed in primary and transformed macrophages: regulation by oxygen tension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R775-R782. | 0.9 | 82 |
| 21 | Prostaglandin E2 Suppresses Lipopolysaccharide-Stimulated IFN-Î² Production. Journal of Immunology, 2008, 180, 2125-2131. | 0.4 | 79 |
| 22 | PAD4 Deficiency Leads to Decreased Organ Dysfunction and Improved Survival in a Dual Insult Model of Hemorrhagic Shock and Sepsis. Journal of Immunology, 2018, 200, 1817-1828. | 0.4 | 78 |
| 23 | Neutrophils from critically ill septic patients mediate profound loss of endothelial barrier integrity. Critical Care, 2013, 17, R226. | 2.5 | 72 |
| 24 | High Resolution, Large Deformation 3D Traction Force Microscopy. PLoS ONE, 2014, 9, e90976. | 1.1 | 71 |
| 25 | Î²-Glucan Is a Fungal Determinant for Adhesion-Dependent Human Neutrophil Functions. Journal of Immunology, 2006, 177, 8667-8675. | 0.4 | 70 |
| 26 | Consequences of extracellular trap formation in sepsis. Current Opinion in Hematology, 2017, 24, 66-71. | 1.2 | 68 |
| 27 | Differential Effects of Macrophage Inflammatory Chemokine-2 and Keratinocyte-Derived Chemokine on Hemorrhage-Induced Neutrophil Priming for Lung Inflammation: Assessment by Adoptive Cells Transfer in Mice. Shock, 2003, 19, 358-365. | 1.0 | 66 |
| 28 | Mean deformation metrics for quantifying 3D cellâ€“matrix interactions without requiring information about matrix material properties. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2898-2903. | 3.3 | 60 |
| 29 | Lectin Site Ligation of CR3 Induces Conformational Changes and Signaling. Journal of Biological Chemistry, 2012, 287, 3337-3348. | 1.6 | 59 |
| 30 | Antibodies Immobilized as Arrays to Profile Protein Post-translational Modifications in Mammalian Cells. Molecular and Cellular Proteomics, 2004, 3, 788-795. | 2.5 | 55 |
| 31 | The effect of PGG-Â-glucan on neutrophil chemotaxis in vivo. Journal of Leukocyte Biology, 2006, 79, 667-675. | 1.5 | 44 |
| 32 | MACROPHAGE ARGINASE REGULATION BY CCAAT/ENHANCER-BINDING PROTEIN ??. Shock, 2005, 23, 168-172. | 1.0 | 41 |
| 33 | Oxygen and the regulation of gene expression in wounds. Wound Repair and Regeneration, 2003, 11, 445-451. | 1.5 | 39 |
| 34 | [8] Glycosyltransferase probes. Methods in Enzymology, 1989, 179, 82-95. | 0.4 | 37 |
| 35 | Matrix Confinement Plays a Pivotal Role in Regulating Neutrophil-generated Tractions, Speed, and Integrin Utilization. Journal of Biological Chemistry, 2015, 290, 3752-3763. | 1.6 | 36 |
| 36 | Cell surface galactosyltransferase as a recognition molecule during development. Molecular and Cellular Biochemistry, 1986, 72, 141-51. | 1.4 | 34 |

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|---|---|---|---|
| 37 | NETosis in Neonates: Evidence of a Reactive Oxygen Speciesâ€“Independent Pathway in Response to Fungal Challenge. Journal of Infectious Diseases, 2016, 213, 634-639. | 1.9 | 34 |
| 38 | Bacterial Colonization and the Expression of Inducible Nitric Oxide Synthase in Murine Wounds. American Journal of Pathology, 2002, 161, 2143-2152. | 1.9 | 29 |
| 39 | Effects of Lambda-Carrageenan Induced Experimental Enterocolitis on Splenocyte Function and Nitric Oxide Production. Journal of Surgical Research, 1996, 66, 6-11. | 0.8 | 27 |
| 40 | Neutrophil Integrins and Matrix Ligands and NET Release. Frontiers in Immunology, 2016, 7, 363. | 2.2 | 27 |
| 41 | Receptor-mediated phagocytosis of rat macrophages is regulated differentially for opsonized particles and non-opsonized particles containing beta-glucan. Immunology, 2001, 104, 198-206. | 2.0 | 26 |
| 42 | The Lectin-Like Domain of Complement Receptor 3 Protects Endothelial Barrier Function from Activated Neutrophils. Journal of Immunology, 2004, 173, 1284-1291. | 0.4 | 26 |
| 43 | ÃŸ-glucan affects leukocyte navigation in a complex chemotactic gradient. Surgery, 2004, 136, 384-389. | 1.0 | 26 |
| 44 | Integrin Engagement Mediates the Human Polymorphonuclear Leukocyte Response to a Fungal Pathogen-Associated Molecular Pattern. Journal of Immunology, 2007, 178, 7276-7282. | 0.4 | 25 |
| 45 | Describing Directional Cell Migration with a Characteristic Directionality Time. PLoS ONE, 2015, 10, e0127425. | 1.1 | 25 |
| 46 | Sepsis-Induced Potentiation of Peritoneal Macrophage Migration Is Mitigated by Programmed Cell Death Receptor-1 Gene Deficiency. Journal of Innate Immunity, 2014, 6, 325-338. | 1.8 | 22 |
| 47 | Acyl phosphatase activity of NO-inhibited glyceraldehyde-3-phosphate dehydrogenase (GAPDH): a potential mechanism for uncoupling glycolysis from ATP generation in NO-producing cells. Biochemical Journal, 1999, 341, 5-9. | 1.7 | 21 |
| 48 | Epifluorescence-based three-dimensional traction force microscopy. Scientific Reports, 2020, 10, 16599. | 1.6 | 21 |
| 49 | The G Protein-Coupled Estrogen Receptor-1, GPER-1, Promotes Fibrillogenesis via a Shc-Dependent Pathway Resulting in Anchorage-Independent Growth. Hormones and Cancer, 2014, 5, 390-404. | 4.9 | 20 |
| 50 | Effect of IL-6 overexpression on the metastatic potential of rat hepatocellular carcinoma cells. Annals of Surgical Oncology, 1998, 5, 279-286. | 0.7 | 19 |
| 51 | NO is not sufficient to explain maximal cytotoxicity of tumoricidal macrophages against an NO-sensitive cell line. Journal of Leukocyte Biology, 1996, 60, 245-252. | 1.5 | 18 |
| 52 | In Vitro Immune Responsiveness of Rats Lacking Active Dipeptidylpeptidase IV. Cellular Immunology, 1994, 158, 269-280. | 1.4 | 17 |
| 53 | Interleukin-6 Production by Rat Hepatocellular Carcinoma Cells Is Associated With Metastatic Potential but Not With Tumorigenicity. Archives of Surgery, 1996, 131, 360. | 2.3 | 17 |
| 54 | Integrin Cross-Talk Regulates the Human Neutrophil Response to Fungal Î²-Glucan in the Context of the Extracellular Matrix: A Prominent Role for VLA3 in the Antifungal Response. Journal of Immunology, 2017, 198, 318-334. | 0.4 | 17 |

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|---|---|---|---|
| 55 | Context-Dependent Role of Vinculin in Neutrophil Adhesion, Motility and Trafficking. Scientific Reports, 2020, 10, 2142. | 1.6 | 17 |
| 56 | Improved Antimicrobial Host Defense in Mice following Poly-(1,6)-Î²- <scp>d</scp> -Glucopyranosyl-(1,3)-Î²- <scp>d</scp> -Glucopyranose Glucan Treatment by a Gender-Dependent Immune Mechanism. Vaccine Journal, 2011, 18, 2043-2049. | 3.2 | 16 |
| 57 | Tollâ€like receptor 4 signaling regulates the acute local inflammatory response to injury and the fibrosis/neovascularization of sterile wounds. Wound Repair and Regeneration, 2013, 21, 624-633. | 1.5 | 16 |
| 58 | Technical Advance: Introducing a novel metric, directionality time, to quantify human neutrophil chemotaxis as a function of matrix composition and stiffness. Journal of Leukocyte Biology, 2014, 95, 993-1004. | 1.5 | 14 |
| 59 | Vestigial respiratory burst activity in wound macrophages. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1587-R1594. | 0.9 | 12 |
| 60 | Leukadherin-1 ameliorates endothelial barrier damage mediated by neutrophils from critically ill patients. Journal of Intensive Care, 2018, 6, 19. | 1.3 | 12 |
| 61 | Transcriptional regulation of TNF-Î± production in neutropenia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R409-R412. | 0.9 | 11 |
| 62 | Endotoxin Alters Early Fetal Lung Morphogenesis. Journal of Surgical Research, 2009, 155, 225-230. | 0.8 | 11 |
| 63 | Acyl phosphatase activity of NO-inhibited glyceraldehyde-3-phosphate dehydrogenase (GAPDH): a potential mechanism for uncoupling glycolysis from ATP generation in NO-producing cells. Biochemical Journal, 1999, 341, 5. | 1.7 | 9 |
| 64 | Electron Transport Chain Activity in Normal and Activated Rat Macrophages. Journal of Surgical Research, 1995, 59, 636-643. | 0.8 | 6 |
| 65 | The Search for H-2 Complementation Affecting the Anti-Thy-1 Response in Mice: A Progress Report. Immunological Investigations, 1981, 10, 523-531. | 0.9 | 5 |
| 66 | Preliminary Analysis of Primary and Secondary Anti-Thy-1 Responses Elicited by Immunization with Cell-Bound and Cell-Free Antigen. International Archives of Allergy and Immunology, 1984, 73, 263-268. | 0.9 | 5 |
| 67 | Determination of the Role of Hypoxia-Inducible Factor 1 in Wound Healing. Methods in Enzymology, 2004, 381, 527-538. | 0.4 | 5 |
| 68 | Recycling cell surface glycoproteins undergo limited oligosaccharide reprocessing in LEC1 mutant Chinese hamster ovary cells. Glycobiology, 1998, 8, 1173-1182. | 1.3 | 4 |
| 69 | Role of Macrophage-Derived Nitric Oxide in Target Cell Injury. , 2000, , 711-724. | | 4 |
| 70 | New Thy-1- and H-2-Congenic Strains of Mice and Their Application in Studies on the Mechanism of Anti-Thy-1.1 Response. Immunological Investigations, 1983, 12, 501-508. | 0.9 | 3 |
| 71 | Broadband reflectance spectroscopy for establishing a quantitative metric of vascular leak using the Miles assay. Journal of Biomedical Optics, 2009, 14, 054012. | 1.4 | 3 |
| 72 | The Ir-Thy-1 concept: Continuing saga. Immunologic Research, 1986, 5, 79-88. | 1.3 | 2 |

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|---|---|---|---|
| 73 | The Ir-Thy-1 concept: A swan song. Immunologic Research, 1989, 8, 316-326. | 1.3 | 2 |
| 74 | The effects of betaâ€glucan treatment on endotoxin and sepsisâ€induced cytokine production. FASEB Journal, 2009, 23, 439.1. | 0.2 | 2 |
| 75 | An extracellular matrixâ€based mechanism of rapid neutrophil extracellular trap formation in response to C. albicans. FASEB Journal, 2013, 27, 132.4. | 0.2 | 1 |
| 76 | Vinculin in Neutrophil Adhesion, Motility and Trafficking. FASEB Journal, 2018, 32, 280.11. | 0.2 | 1 |
| 77 | Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. Journal of Experimental Medicine, 2008, 205, 993-993. | 4.2 | 0 |
| 78 | Traction Force Microscopy of Human Neutrophils During Critical Illness. FASEB Journal, 2021, 35, . | 0.2 | 0 |
| 79 | Mechanosensing of Substrate Stiffness Regulates Effector Functions of Human Neutrophils. FASEB Journal, 2021, 35, . | 0.2 | 0 |
| 80 | Modulation of betaâ€glucanâ€stimulated respiratory burst in human PMNs by ECM interaction and activation of specific betaâ€1 integrins. FASEB Journal, 2006, 20, A1377. | 0.2 | 0 |
| 81 | Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration. Journal of Cell Biology, 2008, 180, i5-i5. | 2.3 | 0 |
| 82 | Recombinant Activated Protein C Regulates Integrinâ€Mediated Neutrophil Migration. FASEB Journal, 2008, 22, 666.5. | 0.2 | 0 |
| 83 | The effect of betaâ€glucan pretreatment on TNF production in vivo. FASEB Journal, 2008, 22, 48.8. | 0.2 | 0 |
| 84 | Characterizing membrane clustering of the Î²2 integrin CR3 using fluorescence resonance energy transfer (FRET). FASEB Journal, 2008, 22, 1122.14. | 0.2 | 0 |
| 85 | NEUTROPHIL MIGRATION IS INFLUENCED BY SUBSTRATE STIFFNESS. FASEB Journal, 2009, 23, 929.6. | 0.2 | 0 |
| 86 | Î² 2 INTEGRIN COMPLEMENT RECEPTOR 3 (CR3, CD11b/CD18) REGULATION OF NEUTROPHIL FUNCTION. FASEB Journal, 2009, 23, 568.2. | 0.2 | 0 |
| 87 | The role of VAV guanine nucleotide exchange factor in Dectinâ€1 mediated phagocytosis. FASEB Journal, 2009, 23, 929.5. | 0.2 | 0 |
| 88 | Wound macrophage phenotype is independent of ILâ€4 receptorâ€alpha. FASEB Journal, 2009, 23, 235.10. | 0.2 | 0 |
| 89 | Signaling molecules differentiate single versus dual ligation of complement receptor 3. FASEB Journal, 2011, 25, lb325. | 0.2 | 0 |
| 90 | Recognition of Fungal Î²â€glucan by Human Neutrophil CR3 Results in Homotypic Aggregation and Neutrophil Extracellular Traps. FASEB Journal, 2012, 26, 276.3. | 0.2 | 0 |

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|---|---|---|---|
| 91 | Effect of neutrophils from septic patients on endothelial barrier function. FASEB Journal, 2012, 26, lb488. | 0.2 | 0 |
| 92 | Mechanistic role for Î±3Î²1/CD151 and the neutrophilic fungal response to Î²â€Glucan. FASEB Journal, 2012, 26, 276.4. | 0.2 | 0 |
| 93 | Phosphoinositideâ€3â€kinase regulation of neutrophil mechanosensing is context dependent. FASEB Journal, 2013, 27, 650.1. | 0.2 | 0 |
| 94 | Integrin Crosstalk Regulation of Human Neutrophils Adhered to Fibronectin and Betaâ€glucan. FASEB Journal, 2013, 27, 138.3. | 0.2 | 0 |
| 95 | 3D Neutrophil Tractions in Changing Microenvironments. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 147-154. | 0.3 | 0 |
| 96 | Role of GSK3 beta and ERK in the human neutrophil response to fungal betaâ€glucan (1046.5). FASEB Journal, 2014, 28, 1046.5. | 0.2 | 0 |
| 97 | Assessment of NETosis in patients with primary immunodeficiencies: evidence for a ROSâ€independent pathway (1046.6). FASEB Journal, 2014, 28, 1046.6. | 0.2 | 0 |
| 98 | Mechanoregulation of Human Neutrophil Host Defense and Survival. FASEB Journal, 2015, 29, 505.1. | 0.2 | 0 |
| 99 | Integrin Crosstalk Regulation of Human Neutrophils Adhered to Fibronectin and Betaâ€glucan. FASEB Journal, 2015, 29, 925.2. | 0.2 | 0 |