

Miguel Vicente-Manzanares

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

8,285
citations

71102

41
h-index

76900

74
g-index

171
all docs

171
docs citations

171
times ranked

11129
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Non-muscle myosin II takes centre stage in cell adhesion and migration. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 778-790. | 37.0 | 1,634 |
| 2 | Actin and $\hat{\pm}$ -actinin orchestrate the assembly and maturation of nascent adhesions in a myosin II motor-independent manner. <i>Nature Cell Biology</i> , 2008, 10, 1039-1050. | 10.3 | 691 |
| 3 | Dynamic interaction of VCAM-1 and ICAM-1 with moesin and ezrin in a novel endothelial docking structure for adherent leukocytes. <i>Journal of Cell Biology</i> , 2002, 157, 1233-1245. | 5.2 | 540 |
| 4 | Integrins in cell migration – the actin connection. <i>Journal of Cell Science</i> , 2009, 122, 199-206. | 2.0 | 374 |
| 5 | Cell migration at a glance. <i>Journal of Cell Science</i> , 2005, 118, 4917-4919. | 2.0 | 362 |
| 6 | Regulation of protrusion, adhesion dynamics, and polarity by myosins IIA and IIB in migrating cells. <i>Journal of Cell Biology</i> , 2007, 176, 573-580. | 5.2 | 358 |
| 7 | Role of the cytoskeleton during leukocyte responses. <i>Nature Reviews Immunology</i> , 2004, 4, 110-122. | 22.7 | 318 |
| 8 | Paxillin phosphorylation at Ser273 localizes a GIT1–PIX–PAK complex and regulates adhesion and protrusion dynamics. <i>Journal of Cell Biology</i> , 2006, 173, 587-589. | 5.2 | 258 |
| 9 | Priming of dendritic cells by DNA-containing extracellular vesicles from activated T cells through antigen-driven contacts. <i>Nature Communications</i> , 2018, 9, 2658. | 12.8 | 242 |
| 10 | Rho GTPases control migration and polarization of adhesion molecules and cytoskeletal ERM components in T lymphocytes. <i>European Journal of Immunology</i> , 1999, 29, 3609-3620. | 2.9 | 211 |
| 11 | Segregation and activation of myosin IIB creates a rear in migrating cells. <i>Journal of Cell Biology</i> , 2008, 183, 543-554. | 5.2 | 193 |
| 12 | Caveolae Are a Novel Pathway for Membrane-Type 1 Matrix Metalloproteinase Traffic in Human Endothelial Cells. <i>Molecular Biology of the Cell</i> , 2004, 15, 678-687. | 2.1 | 163 |
| 13 | Regulation of lamellipodial persistence, adhesion turnover, and motility in macrophages by focal adhesion kinase. <i>Journal of Cell Biology</i> , 2007, 179, 1275-1287. | 5.2 | 153 |
| 14 | Myosin IIA/IIB restrict adhesive and protrusive signaling to generate front–back polarity in migrating cells. <i>Journal of Cell Biology</i> , 2011, 193, 381-396. | 5.2 | 132 |
| 15 | High Glucose-Mediated Oxidative Stress Impairs Cell Migration. <i>PLoS ONE</i> , 2011, 6, e22865. | 2.5 | 118 |
| 16 | Cell Migration: An Overview. <i>Methods in Molecular Biology</i> , 2011, 769, 1-24. | 0.9 | 109 |
| 17 | The chemokine SDF-1 $\hat{\pm}$ triggers a chemotactic response and induces cell polarization in human B lymphocytes. <i>European Journal of Immunology</i> , 1998, 28, 2197-2207. | 2.9 | 102 |
| 18 | Myosin II in mechanotransduction: master and commander of cell migration, morphogenesis, and cancer. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 479-492. | 5.4 | 101 |

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|----|---|------|-----------|
| 19 | CD69 controls the uptake of L-tryptophan through LAT1-CD98 and AhR-dependent secretion of IL-22 in psoriasis. <i>Nature Immunology</i> , 2016, 17, 985-996. | 14.5 | 98 |
| 20 | A Role for the Rho-p160 Rho Coiled-Coil Kinase Axis in the Chemokine Stromal Cell-Derived Factor-1 α -Induced Lymphocyte Actomyosin and Microtubular Organization and Chemotaxis. <i>Journal of Immunology</i> , 2002, 168, 400-410. | 0.8 | 95 |
| 21 | Adhesion dynamics at a glance. <i>Journal of Cell Science</i> , 2011, 124, 3923-3927. | 2.0 | 95 |
| 22 | Cell adhesion and polarity during immune interactions. <i>Immunological Reviews</i> , 2002, 186, 68-82. | 6.0 | 90 |
| 23 | Lymphocyte Chemotaxis Is Regulated by Histone Deacetylase 6, Independently of Its Deacetylase Activity. <i>Molecular Biology of the Cell</i> , 2006, 17, 3435-3445. | 2.1 | 79 |
| 24 | The Two Poles of the Lymphocyte: Specialized Cell Compartments for Migration and Recruitment. <i>Cell Adhesion and Communication</i> , 1998, 6, 125-133. | 1.7 | 72 |
| 25 | Myosin IIB Activity and Phosphorylation Status Determines Dendritic Spine and Post-Synaptic Density Morphology. <i>PLoS ONE</i> , 2011, 6, e24149. | 2.5 | 71 |
| 26 | The RhoA Effector mDia Is Induced During T Cell Activation and Regulates Actin Polymerization and Cell Migration in T Lymphocytes. <i>Journal of Immunology</i> , 2003, 171, 1023-1034. | 0.8 | 69 |
| 27 | A juxta-membrane amino acid sequence of P-selectin glycoprotein ligand-1 is involved in moesin binding and ezrin/radixin/moesin-directed targeting at the trailing edge of migrating lymphocytes. <i>European Journal of Immunology</i> , 2002, 32, 1560. | 2.9 | 66 |
| 28 | Control of lymphocyte shape and the chemotactic response by the GTP exchange factor Vav. <i>Blood</i> , 2005, 105, 3026-3034. | 1.4 | 65 |
| 29 | Synaptic Clusters of MHC Class II Molecules Induced on DCs by Adhesion Molecule α -mediated Initial T-Cell Scanning. <i>Molecular Biology of the Cell</i> , 2005, 16, 3314-3322. | 2.1 | 65 |
| 30 | A Novel Serine-rich Motif in the Intercellular Adhesion Molecule 3 Is Critical for Its Ezrin/Radixin/Moesin-directed Subcellular Targeting. <i>Journal of Biological Chemistry</i> , 2002, 277, 10400-10409. | 3.4 | 64 |
| 31 | Regulation of microtubule-organizing center orientation and actomyosin cytoskeleton rearrangement during immune interactions. <i>Immunological Reviews</i> , 2002, 189, 84-97. | 6.0 | 64 |
| 32 | Organizing Polarized Delivery of Exosomes at Synapses. <i>Traffic</i> , 2015, 16, 327-337. | 2.7 | 64 |
| 33 | The leukocyte cytoskeleton in cell migration and immune interactions. <i>International Review of Cytology</i> , 2002, 216, 233-289. | 6.2 | 58 |
| 34 | Signaling through the Leukocyte Integrin LFA-1 in T Cells Induces a Transient Activation of Rac-1 That Is Regulated by Vav and PI3K/Akt-1. <i>Journal of Biological Chemistry</i> , 2004, 279, 16194-16205. | 3.4 | 58 |
| 35 | Rho and Rho-associated Kinase Modulate the Tyrosine Kinase PYK2 in T-cells through Regulation of the Activity of the Integrin LFA-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 40518-40527. | 3.4 | 56 |
| 36 | Role of Fyn in the Rearrangement of Tubulin Cytoskeleton Induced through TCR. <i>Journal of Immunology</i> , 2006, 176, 4201-4207. | 0.8 | 55 |

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|----|---|-----|-----------|
| 37 | Cutting Edge: Association of the Motor Protein Nonmuscle Myosin Heavy Chain-IIA with the C Terminus of the Chemokine Receptor CXCR4 in T Lymphocytes. <i>Journal of Immunology</i> , 2002, 169, 5410-5414. | 0.8 | 53 |
| 38 | Myosin light chain mono- and di-phosphorylation differentially regulate adhesion and polarity in migrating cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 537-542. | 2.1 | 53 |
| 39 | F-actin-dependent Translocation of the Rap1 GDP/GTP Exchange Factor RasGRP2. <i>Journal of Biological Chemistry</i> , 2004, 279, 20435-20446. | 3.4 | 50 |
| 40 | Targeting L-type amino acid transporter 1 in innate and adaptive T cells efficiently controls skin inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 199-214.e11. | 2.9 | 47 |
| 41 | The Integrin-Ligand Interaction Regulates Adhesion and Migration through a Molecular Clutch. <i>PLoS ONE</i> , 2012, 7, e40202. | 2.5 | 47 |
| 42 | A regulatory motif in nonmuscle myosin II-B regulates its role in migratory frontâ€“back polarity. <i>Journal of Cell Biology</i> , 2015, 209, 23-32. | 5.2 | 46 |
| 43 | STICCS Reveals Matrix-Dependent Adhesion Slipping and Gripping in Migrating Cells. <i>Biophysical Journal</i> , 2012, 103, 1672-1682. | 0.5 | 44 |
| 44 | Rho regulates T cell receptor ITAM-induced lymphocyte spreading in an integrin-independent manner. <i>European Journal of Immunology</i> , 2000, 30, 3403-3410. | 2.9 | 41 |
| 45 | Fibroblast Migration in 3D is Controlled by Haptotaxis in a Non-muscle Myosin II-Dependent Manner. <i>Annals of Biomedical Engineering</i> , 2015, 43, 3025-3039. | 2.5 | 41 |
| 46 | Dasatinib Reversibly Disrupts Endothelial Vascular Integrity by Increasing Non-Muscle Myosin II Contractility in a ROCK-Dependent Manner. <i>Clinical Cancer Research</i> , 2017, 23, 6697-6707. | 7.0 | 41 |
| 47 | Activation of the orphan receptor GPR55 by lysophosphatidylinositol promotes metastasis in triple-negative breast cancer. <i>Oncotarget</i> , 2016, 7, 47565-47575. | 1.8 | 40 |
| 48 | Interactive protrusive structures during leukocyte adhesion and transendothelial migration. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 1849. | 3.0 | 38 |
| 49 | The Crossroads between RAS and RHO Signaling Pathways in Cellular Transformation, Motility and Contraction. <i>Genes</i> , 2021, 12, 819. | 2.4 | 35 |
| 50 | Concerning immune synapses: a spatiotemporal timeline. <i>F1000Research</i> , 2016, 5, 418. | 1.6 | 35 |
| 51 | Targeting the integrin interactome in human disease. <i>Current Opinion in Cell Biology</i> , 2018, 55, 17-23. | 5.4 | 34 |
| 52 | Fungal lectin of <i>Peltigera canina</i> induces chemotropism of compatible <i>Nostoc</i> cells by constriction-relaxation pulses of cyanobiont cytoskeleton. <i>Plant Signaling and Behavior</i> , 2011, 6, 1525-1536. | 2.4 | 33 |
| 53 | Linking the Landscape of MYH9-Related Diseases to the Molecular Mechanisms that Control Non-Muscle Myosin II-A Function in Cells. <i>Cells</i> , 2020, 9, 1458. | 4.1 | 32 |
| 54 | Nonmuscle Myosin II Regulation Directs Its Multiple Roles in Cell Migration and Division. <i>Annual Review of Cell and Developmental Biology</i> , 2021, 37, 285-310. | 9.4 | 27 |

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|----|---|-----|-----------|
| 55 | Integrins in cell migration - the actin connection. <i>Journal of Cell Science</i> , 2009, 122, 1473-1473. | 2.0 | 26 |
| 56 | Free Form Deformation-Based Image Registration Improves Accuracy of Traction Force Microscopy. <i>PLoS ONE</i> , 2015, 10, e0144184. | 2.5 | 23 |
| 57 | Cell Polarization: A Comparative Cell Biology and Immunological View. <i>Autoimmunity</i> , 2000, 7, 51-65. | 0.6 | 21 |
| 58 | Tyrosine Phosphorylation of the Myosin Regulatory Light Chain Controls Non-muscle Myosin II Assembly and Function in Migrating Cells. <i>Current Biology</i> , 2020, 30, 2446-2458.e6. | 3.9 | 18 |
| 59 | Adhesive Interactions Delineate the Topography of the Immune Synapse. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 149. | 3.7 | 17 |
| 60 | <scp>L</scp> selectin expression is regulated by CXCL8-induced reactive oxygen species produced during human neutrophil rolling. <i>European Journal of Immunology</i> , 2019, 49, 386-397. | 2.9 | 12 |
| 61 | Measurement of the Levels of Polymerized Actin (F-Actin) in Chemokine-Stimulated Lymphocytes and GFP-Coupled cDNA Transfected Lymphoid Cells by Flow Cytometry. , 2004, 239, 53-68. | | 11 |
| 62 | Full L1-regularized Traction Force Microscopy over whole cells. <i>BMC Bioinformatics</i> , 2017, 18, 365. | 2.6 | 10 |
| 63 | Microfilament-coordinated adhesion dynamics drives single cell migration and shapes whole tissues. <i>F1000Research</i> , 2017, 6, 160. | 1.6 | 8 |
| 64 | Phosphatidylinositol Monophosphates Regulate Optimal Vav1 Signaling Output. <i>Cells</i> , 2019, 8, 1649. | 4.1 | 8 |
| 65 | The interface between biochemical signaling and cell mechanics shapes T lymphocyte migration and activation. <i>European Journal of Cell Biology</i> , 2022, 101, 151236. | 3.6 | 8 |
| 66 | Dendritic Spines: Similarities with Protrusions and Adhesions in Migrating Cells. <i>The Open Neuroscience Journal</i> , 2009, 3, 87-96. | 0.8 | 7 |
| 67 | Cell Migration: Cooperation between Myosin II Isoforms in Durotaxis. <i>Current Biology</i> , 2013, 23, R28-R29. | 3.9 | 6 |
| 68 | Molecular control of non-muscle myosin II assembly. <i>Oncotarget</i> , 2016, 7, 5092-5093. | 1.8 | 6 |
| 69 | A cyanobacterial $\hat{1}^2$ -actin-like protein, responsible for lichenized <i>Nostoc</i> sp. motility towards a fungal lectin. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1. | 2.1 | 5 |
| 70 | Wavelet Imaging on Multiple Scales (WIMS) reveals focal adhesion distributions, dynamics and coupling between actomyosin bundle stability. <i>PLoS ONE</i> , 2017, 12, e0186058. | 2.5 | 4 |
| 71 | An actomyosin-like cytoskeleton in the cyanobiont (<i>Nosctoc</i> sp.) of <i>Peltigera canina</i> . <i>Phytochemistry Letters</i> , 2016, 16, 249-256. | 1.2 | 3 |
| 72 | Nonmuscle Myosin II. , 2018, , 3541-3553. | | 3 |

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|----|---|-----|-----------|
| 73 | Regulation of protrusion, adhesion dynamics, and polarity by myosins IIA and IIB in migrating cells. Journal of Cell Biology, 2007, 176, 1073-1073. | 5.2 | 1 |
| 74 | Unleashing Mesenchymal Chemotaxis. Developmental Cell, 2014, 31, 669-670. | 7.0 | 1 |
| 75 | Targeting cytoskeletal phosphorylation in cancer. Exploration of Targeted Anti-tumor Therapy, 0, , . | 0.8 | 1 |
| 76 | An Integrated View of Virus-Triggered Cellular Plasticity Using Boolean Networks. Cells, 2021, 10, 2863. | 4.1 | 1 |
| 77 | Nonmuscle Myosin II. , 2016, , 1-13. | | 0 |
| 78 | Cancer cell development, migratory response, and the role of the tumor microenvironment in invasion and metastasis. , 2022, , 245-270. | | 0 |