

Cesar Nombela-Arrieta

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,843
citations

218677

26
h-index

214800

47
g-index

60
all docs

60
docs citations

60
times ranked

8986
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Rhythmic Modulation of the Hematopoietic Niche through Neutrophil Clearance. <i>Cell</i> , 2013, 153, 1025-1035. | 28.9 | 555 |
| 2 | The elusive nature and function of mesenchymal stem cells. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 126-131. | 37.0 | 544 |
| 3 | Combined single-cell and spatial transcriptomics reveal the molecular, cellular and spatial bone marrow niche organization. <i>Nature Cell Biology</i> , 2020, 22, 38-48. | 10.3 | 521 |
| 4 | Quantitative imaging of haematopoietic stem and progenitor cell localization and hypoxic status in the bone marrow microenvironment. <i>Nature Cell Biology</i> , 2013, 15, 533-543. | 10.3 | 461 |
| 5 | Platelet GPIb β is a mediator and potential interventional target for NASH and subsequent liver cancer. <i>Nature Medicine</i> , 2019, 25, 641-655. | 30.7 | 259 |
| 6 | Differential Requirements for DOCK2 and Phosphoinositide-3-Kinase $\hat{1}^3$ during T and B Lymphocyte Homing. <i>Immunity</i> , 2004, 21, 429-441. | 14.3 | 219 |
| 7 | Chemokine control of lymphocyte trafficking: a general overview. <i>Immunology</i> , 2005, 116, 1-12. | 4.4 | 213 |
| 8 | Pathogen-Induced TLR4-TRIF Innate Immune Signaling in Hematopoietic Stem Cells Promotes Proliferation but Reduces Competitive Fitness. <i>Cell Stem Cell</i> , 2017, 21, 225-240.e5. | 11.1 | 210 |
| 9 | In vivo generation of transplantable human hematopoietic cells from induced pluripotent stem cells. <i>Blood</i> , 2013, 121, 1255-1264. | 1.4 | 185 |
| 10 | <i>Fgd5</i> identifies hematopoietic stem cells in the murine bone marrow. <i>Journal of Experimental Medicine</i> , 2014, 211, 1315-1331. | 8.5 | 162 |
| 11 | A central role for DOCK2 during interstitial lymphocyte motility and sphingosine-1-phosphate-mediated egress. <i>Journal of Experimental Medicine</i> , 2007, 204, 497-510. | 8.5 | 144 |
| 12 | Mesenchymal Niche-Specific Expression of Cxcl12 Controls Quiescence of Treatment-Resistant Leukemia Stem Cells. <i>Cell Stem Cell</i> , 2019, 24, 769-784.e6. | 11.1 | 141 |
| 13 | Sustained PU.1 Levels Balance Cell-Cycle Regulators to Prevent Exhaustion of Adult Hematopoietic Stem Cells. <i>Molecular Cell</i> , 2013, 49, 934-946. | 9.7 | 127 |
| 14 | Quantitative spatial analysis of haematopoiesis-regulating stromal cells in the bone marrow microenvironment by 3D microscopy. <i>Nature Communications</i> , 2018, 9, 2532. | 12.8 | 109 |
| 15 | Vav1 and Rac Control Chemokine-promoted T Lymphocyte Adhesion Mediated by the Integrin $\hat{1}^4$. <i>Molecular Biology of the Cell</i> , 2005, 16, 3223-3235. | 2.1 | 89 |
| 16 | Myeloid Cell-Derived Reactive Oxygen Species Externally Regulate the Proliferation of Myeloid Progenitors in Emergency Granulopoiesis. <i>Immunity</i> , 2015, 42, 159-171. | 14.3 | 85 |
| 17 | Quantification and three-dimensional microanatomical organization of the bone marrow. <i>Blood Advances</i> , 2017, 1, 407-416. | 5.2 | 84 |
| 18 | CCR7-mediated physiological lymphocyte homing involves activation of a tyrosine kinase pathway. <i>Blood</i> , 2003, 101, 38-44. | 1.4 | 80 |

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|----|--|------|-----------|
| 19 | Remodeling of light and dark zone follicular dendritic cells governs germinal center responses. <i>Nature Immunology</i> , 2020, 21, 649-659. | 14.5 | 80 |
| 20 | Global Transcriptomic Profiling of the Bone Marrow Stromal Microenvironment during Postnatal Development, Aging, and Inflammation. <i>Cell Reports</i> , 2019, 29, 3313-3330.e4. | 6.4 | 79 |
| 21 | G-CSF maintains controlled neutrophil mobilization during acute inflammation by negatively regulating CXCR2 signaling. <i>Journal of Experimental Medicine</i> , 2016, 213, 1999-2018. | 8.5 | 74 |
| 22 | IL-1 mediates microbiome-induced inflammaging of hematopoietic stem cells in mice. <i>Blood</i> , 2022, 139, 44-58. | 1.4 | 51 |
| 23 | Focal Adhesion Kinase Regulates the Localization and Retention of Pro-B Cells in Bone Marrow Microenvironments. <i>Journal of Immunology</i> , 2013, 190, 1094-1102. | 0.8 | 44 |
| 24 | 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 |
| 25 | The science behind the hypoxic niche of hematopoietic stem and progenitors. <i>Hematology American Society of Hematology Education Program</i> , 2014, 2014, 542-547. | 2.5 | 37 |
| 26 | NG2 antigen is a therapeutic target for MLL-rearranged B-cell acute lymphoblastic leukemia. <i>Leukemia</i> , 2019, 33, 1557-1569. | 7.2 | 30 |
| 27 | Chronic viral infections persistently alter marrow stroma and impair hematopoietic stem cell fitness. <i>Journal of Experimental Medicine</i> , 2021, 218, . | 8.5 | 27 |
| 28 | Reactive Oxygen Species-Producing Myeloid Cells Act as a Bone Marrow Niche for Sterile Inflammation-Induced Reactive Granulopoiesis. <i>Journal of Immunology</i> , 2017, 198, 2854-2864. | 0.8 | 26 |
| 29 | The Role of the Bone Marrow Stromal Compartment in the Hematopoietic Response to Microbial Infections. <i>Frontiers in Immunology</i> , 2016, 7, 689. | 4.8 | 22 |
| 30 | Fak depletion in both hematopoietic and nonhematopoietic niche cells leads to hematopoietic stem cell expansion. <i>Experimental Hematology</i> , 2012, 40, 307-317.e3. | 0.4 | 20 |
| 31 | Imaging and spatial analysis of hematopoietic stem cell niches. <i>Annals of the New York Academy of Sciences</i> , 2020, 1466, 5-16. | 3.8 | 17 |
| 32 | Multiparametric imaging reveals that mitochondria-rich intercalated cells in the kidney collecting duct have a very high glycolytic capacity. <i>FASEB Journal</i> , 2020, 34, 8510-8525. | 0.5 | 12 |
| 33 | Modality attention and sampling enables deep learning with heterogeneous marker combinations in fluorescence microscopy. <i>Nature Machine Intelligence</i> , 2021, 3, 799-811. | 16.0 | 11 |
| 34 | Deficiency of Lipid Phosphatase SHIP Enables Long-Term Reconstitution of Hematopoietic Inductive Bone Marrow Microenvironment. <i>Developmental Cell</i> , 2013, 25, 333-349. | 7.0 | 9 |
| 35 | CXCL12-abundant reticular cells are the major source of IL-6 upon LPS stimulation and thereby regulate hematopoiesis. <i>Blood Advances</i> , 2021, 5, 5002-5015. | 5.2 | 9 |
| 36 | Distinct Expression Patterns of Cxcl12 in Mesenchymal Stem Cell Niches of Intact and Injured Rodent Teeth. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3024. | 4.1 | 8 |

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|----|--|------|-----------|
| 37 | BRAFV 600E or mutant MAP2K1 human CD34+ cells establish Langerhans cell-like histiocytosis in immune-deficient mice. <i>Blood Advances</i> , 2020, 4, 4912-4917. | 5.2 | 6 |
| 38 | Assessing Cellular Hypoxic Status In Situ Within the Bone Marrow Microenvironment. <i>Methods in Molecular Biology</i> , 2019, 2017, 123-134. | 0.9 | 5 |
| 39 | Engraftment characterization of risk-stratified AML patients in NSGS mice. <i>Blood Advances</i> , 2021, 5, 4842-4854. | 5.2 | 5 |
| 40 | Tracking Strain-Specific Morphogenesis and Angiogenesis of Murine Calvaria with Large-Scale Optoacoustic and Ultrasound Microscopy. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 1032-1043. | 2.8 | 4 |
| 41 | Probabilistic spatial analysis in quantitative microscopy with uncertainty-aware cell detection using deep Bayesian regression. <i>Science Advances</i> , 2022, 8, eabi8295. | 10.3 | 3 |
| 42 | 3D Microscopy of Murine Bone Marrow Hematopoietic Tissues. <i>Methods in Molecular Biology</i> , 2021, 2308, 127-138. | 0.9 | 2 |
| 43 | Utilizing Uncertainty Estimation in Deep Learning Segmentation of Fluorescence Microscopy Images with Missing Markers. , 2021, , . | | 1 |
| 44 | FAK Regulates Progenitor B Cell Growth, Localization and Retention in Bone Marrow Microenvironments. <i>Blood</i> , 2011, 118, 1119-1119. | 1.4 | 1 |
| 45 | Role of CXCL12-Expressing Mesenchymal Stromal Cell Niches in Maintaining Treatment-Resistant Leukemia Stem Cells. <i>Blood</i> , 2018, 132, 1291-1291. | 1.4 | 1 |
| 46 | Intracellular signaling pathways mediating lymphocyte trafficking. <i>Immunologia (Barcelona, Spain:)</i> Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 0.1 | | |
| 47 | Deletion of Fak in Hematopoietic Stem Cells Leads to Enhanced Engraftment.. <i>Blood</i> , 2008, 112, 1407-1407. | 1.4 | 0 |
| 48 | Quantitative Imaging of Femoral Bone Marrow Microenvironments Reveals a Heterogenous Distribution of Hematopoietic Stem and Progenitor Cells.. <i>Blood</i> , 2009, 114, 1455-1455. | 1.4 | 0 |
| 49 | Hypoxic Hematopoietic Stem and Progenitor Cells Reside in Structurally Diverse Perivascular Niches in the Bone Marrow,. <i>Blood</i> , 2011, 118, 3417-3417. | 1.4 | 0 |
| 50 | The Bone Marrow Microenvironment Is a Target of Graft-Vs-Host Reactivity Following Allogeneic Hematopoietic Cell Transplantation in Mice. <i>Blood</i> , 2016, 128, 4539-4539. | 1.4 | 0 |
| 51 | Graft-Vs-Host Reactivity Against the Bone Marrow Is Directed Against the Hematopoietic and Non-Hematopoietic Compartments in Mice. <i>Blood</i> , 2018, 132, 808-808. | 1.4 | 0 |
| 52 | Mitochondrial Rich Proton Pumping Cells in the Kidney and Epididymis are Highly Glycolytic. <i>FASEB Journal</i> , 2019, 33, 862.7. | 0.5 | 0 |
| 53 | Editorial: The Role of Hematopoietic Progenitors in Immune Regulation and Memory. <i>Frontiers in Immunology</i> , 2021, 12, 789139. | 4.8 | 0 |