

Andrés Hidalgo

List of Publications by Year in descending order

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135
papers

14,837
citations

25034

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20358

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137
docs citations

137
times ranked

19490
citing authors

#	ARTICLE	IF	CITATIONS
1	Signals from the Sympathetic Nervous System Regulate Hematopoietic Stem Cell Egress from Bone Marrow. <i>Cell</i> , 2006, 124, 407-421.	28.9	1,211
2	Bone marrow CD169+ macrophages promote the retention of hematopoietic stem and progenitor cells in the mesenchymal stem cell niche. <i>Journal of Experimental Medicine</i> , 2011, 208, 261-271.	8.5	732
3	Alloantigen-presenting plasmacytoid dendritic cells mediate tolerance to vascularized grafts. <i>Nature Immunology</i> , 2006, 7, 652-662.	14.5	589
4	Rhythmic Modulation of the Hematopoietic Niche through Neutrophil Clearance. <i>Cell</i> , 2013, 153, 1025-1035.	28.9	555
5	Neutrophils scan for activated platelets to initiate inflammation. <i>Science</i> , 2014, 346, 1234-1238.	12.6	516
6	Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions. <i>Immunity</i> , 2018, 48, 364-379.e8.	14.3	450
7	Heterogeneity of neutrophils. <i>Nature Reviews Immunology</i> , 2019, 19, 255-265.	22.7	416
8	Neutrophils as protagonists and targets in chronic inflammation. <i>Nature Reviews Immunology</i> , 2017, 17, 248-261.	22.7	409
9	Leukocyte ligands for endothelial selectins: specialized glycoconjugates that mediate rolling and signaling under flow. <i>Blood</i> , 2011, 118, 6743-6751.	1.4	390
10	A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. <i>Cell</i> , 2020, 183, 94-109.e23.	28.9	360
11	Neutrophil heterogeneity: implications for homeostasis and pathogenesis. <i>Blood</i> , 2016, 127, 2173-2181.	1.4	347
12	Locally renewing resident synovial macrophages provide a protective barrier for the joint. <i>Nature</i> , 2019, 572, 670-675.	27.8	345
13	Neutrophils in Homeostasis, Immunity, and Cancer. <i>Immunity</i> , 2017, 46, 15-28.	14.3	320
14	Heterotypic interactions enabled by polarized neutrophil microdomains mediate thromboinflammatory injury. <i>Nature Medicine</i> , 2009, 15, 384-391.	30.7	307
15	To NET or not to NET: current opinions and state of the science regarding the formation of neutrophil extracellular traps. <i>Cell Death and Differentiation</i> , 2019, 26, 395-408.	11.2	295
16	Externalized histone H4 orchestrates chronic inflammation by inducing lytic cell death. <i>Nature</i> , 2019, 569, 236-240.	27.8	268
17	The Neutrophil Life Cycle. <i>Trends in Immunology</i> , 2019, 40, 584-597.	6.8	265
18	Complete Identification of E-Selectin Ligands on Neutrophils Reveals Distinct Functions of PSGL-1, ESL-1, and CD44. <i>Immunity</i> , 2007, 26, 477-489.	14.3	264

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19	A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. <i>Immunity</i> , 2019, 50, 390-402.e10.	14.3	258
20	Co-option of Neutrophil Fates by Tissue Environments. <i>Cell</i> , 2020, 183, 1282-1297.e18.	28.9	246
21	Chemokine stromal cell-derived factor-1 α modulates VLA-4 integrin-mediated multiple myeloma cell adhesion to CS-1/fibronectin and VCAM-1. <i>Blood</i> , 2001, 97, 346-351.	1.4	228
22	Enhanced anti-tumour immunity requires the interplay between resident and circulating memory CD8+ T cells. <i>Nature Communications</i> , 2017, 8, 16073.	12.8	222
23	Phagocytosis imprints heterogeneity in tissue-resident macrophages. <i>Journal of Experimental Medicine</i> , 2017, 214, 1281-1296.	8.5	219
24	Neutrophils instruct homeostatic and pathological states in naive tissues. <i>Journal of Experimental Medicine</i> , 2018, 215, 2778-2795.	8.5	200
25	Neutrophil mobilization via plerixafor-mediated CXCR4 inhibition arises from lung demargination and blockade of neutrophil homing to the bone marrow. <i>Journal of Experimental Medicine</i> , 2013, 210, 2321-2336.	8.5	190
26	Patients with COVID-19: in the dark-NETs of neutrophils. <i>Cell Death and Differentiation</i> , 2021, 28, 3125-3139.	11.2	189
27	Programmed "disarming" of the neutrophil proteome reduces the magnitude of inflammation. <i>Nature Immunology</i> , 2020, 21, 135-144.	14.5	180
28	CD44 is a physiological E-selectin ligand on neutrophils. <i>Journal of Experimental Medicine</i> , 2005, 201, 1183-1189.	8.5	177
29	Macrophage Inflammation, Erythrophagocytosis, and Accelerated Atherosclerosis in <i>Jak2^{+/+}V617F</i> Mice. <i>Circulation Research</i> , 2018, 123, e35-e47.	4.5	173
30	PSGL-1 participates in E-selectin-mediated progenitor homing to bone marrow: evidence for cooperation between E-selectin ligands and α 4 integrin. <i>Blood</i> , 2003, 102, 2060-2067.	1.4	170
31	Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. <i>Immunity</i> , 2020, 53, 303-318.e5.	14.3	153
32	Aging: A Temporal Dimension for Neutrophils. <i>Trends in Immunology</i> , 2016, 37, 334-345.	6.8	150
33	Neutrophil stunning by metoprolol reduces infarct size. <i>Nature Communications</i> , 2017, 8, 14780.	12.8	148
34	The nuclear receptor LXR α controls the functional specialization of splenic macrophages. <i>Nature Immunology</i> , 2013, 14, 831-839.	14.5	147
35	Directed transport of neutrophil-derived extracellular vesicles enables platelet-mediated innate immune response. <i>Nature Communications</i> , 2016, 7, 13464.	12.8	143
36	Chrono-pharmacological Targeting of the CCL2-CCR2 Axis Ameliorates Atherosclerosis. <i>Cell Metabolism</i> , 2018, 28, 175-182.e5.	16.2	139

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37	Neutrophil phenotypes and functions in cancer: A consensus statement. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	119
38	Chemokine stromal cell-derived factor-1 \pm modulates VLA-4 integrin-dependent adhesion to fibronectin and VCAM-1 on bone marrow hematopoietic progenitor cells. <i>Experimental Hematology</i> , 2001, 29, 345-355.	0.4	109
39	CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. <i>Journal of Experimental Medicine</i> , 2016, 213, 2293-2314.	8.5	108
40	BMAL1-Driven Tissue Clocks Respond Independently to Light to Maintain Homeostasis. <i>Cell</i> , 2019, 177, 1436-1447.e12.	28.9	107
41	Role of TLR4 (Toll-Like Receptor 4) in N1/N2 Neutrophil Programming After Stroke. <i>Stroke</i> , 2019, 50, 2922-2932.	2.0	106
42	Functional selectin ligands mediating human CD34+ cell interactions with bone marrow endothelium are enhanced postnatally. <i>Journal of Clinical Investigation</i> , 2002, 110, 559-569.	8.2	106
43	Single-cell profiling of CNS border compartment leukocytes reveals that B cells and their progenitors reside in non-diseased meninges. <i>Nature Neuroscience</i> , 2021, 24, 1225-1234.	14.8	103
44	Insights into leukocyte adhesion deficiency type 2 from a novel mutation in the GDP-fucose transporter gene. <i>Blood</i> , 2003, 101, 1705-1712.	1.4	95
45	Ejection of damaged mitochondria and their removal by macrophages ensure efficient thermogenesis in brown adipose tissue. <i>Cell Metabolism</i> , 2022, 34, 533-548.e12.	16.2	91
46	Selective eosinophil transendothelial migration triggered by eotaxin via modulation of Mac-1/ICAM-1 and VLA-4/VCAM-1 interactions. <i>International Immunology</i> , 1999, 11, 1-10.	4.0	85
47	Distinct transcription factor networks control neutrophil-driven inflammation. <i>Nature Immunology</i> , 2021, 22, 1093-1106.	14.5	83
48	Melanoma-derived small extracellular vesicles induce lymphangiogenesis and metastasis through an NGFR-dependent mechanism. <i>Nature Cancer</i> , 2021, 2, 1387-1405.	13.2	83
49	Monocytes control natural killer cell differentiation to effector phenotypes. <i>Blood</i> , 2011, 117, 4511-4518.	1.4	80
50	Imaging receptor microdomains on leukocyte subsets in live mice. <i>Nature Methods</i> , 2007, 4, 219-222.	19.0	79
51	Regulation of leucocyte homeostasis in the circulation. <i>Cardiovascular Research</i> , 2015, 107, 340-351.	3.8	79
52	Secreted protein Del-1 regulates myelopoiesis in the hematopoietic stem cell niche. <i>Journal of Clinical Investigation</i> , 2017, 127, 3624-3639.	8.2	78
53	Integrin α 4 β 7 and its counterreceptor MAdCAM-1 contribute to hematopoietic progenitor recruitment into bone marrow following transplantation. <i>Blood</i> , 2004, 104, 2020-2026.	1.4	76
54	Atypical chemokine receptor 1 on nucleated erythroid cells regulates hematopoiesis. <i>Nature Immunology</i> , 2017, 18, 753-761.	14.5	76

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55	High-Resolution Imaging of Intravascular Atherogenic Inflammation in Live Mice. <i>Circulation Research</i> , 2014, 114, 770-779.	4.5	74
56	The Chemokine Stromal Cell-Derived Factor-1 α Modulates α 4 β 7 Integrin-Mediated Lymphocyte Adhesion to Mucosal Addressin Cell Adhesion Molecule-1 and Fibronectin. <i>Journal of Immunology</i> , 2002, 168, 5268-5277.	0.8	73
57	Integrin α 4 β 1 involvement in stromal cell-derived factor-1 α -promoted myeloma cell transendothelial migration and adhesion: role of cAMP and the actin cytoskeleton in adhesion. <i>Experimental Cell Research</i> , 2004, 294, 571-580.	2.6	71
58	Platelets as autonomous drones for hemostatic and immune surveillance. <i>Journal of Experimental Medicine</i> , 2017, 214, 2193-2204.	8.5	70
59	p38 β and p38 δ reprogram liver metabolism by modulating neutrophil infiltration. <i>EMBO Journal</i> , 2016, 35, 536-552.	7.8	61
60	Circadian Features of Neutrophil Biology. <i>Frontiers in Immunology</i> , 2020, 11, 576.	4.8	57
61	Evaluation of the potential therapeutic benefits of macrophage reprogramming in multiple myeloma. <i>Blood</i> , 2016, 128, 2241-2252.	1.4	54
62	Behavioural immune landscapes of inflammation. <i>Nature</i> , 2022, 601, 415-421.	27.8	53
63	Enforced fucosylation of neonatal CD34+ cells generates selectin ligands that enhance the initial interactions with microvessels but not homing to bone marrow. <i>Blood</i> , 2005, 105, 567-575.	1.4	52
64	Characterization of TGF-beta1-binding proteins in human bone marrow stromal cells. <i>British Journal of Haematology</i> , 1996, 93, 507-514.	2.5	49
65	Endothelial Jag1-RBPJ signalling promotes inflammatory leucocyte recruitment and atherosclerosis. <i>Cardiovascular Research</i> , 2016, 112, 568-580.	3.8	49
66	Circadian Control of Inflammatory Processes in Atherosclerosis and Its Complications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1022-1028.	2.4	46
67	Functional selectin ligands mediating human CD34+ cell interactions with bone marrow endothelium are enhanced postnatally. <i>Journal of Clinical Investigation</i> , 2002, 110, 559-569.	8.2	45
68	Physiological Contribution of CD44 as a Ligand for E-Selectin during Inflammatory T-Cell Recruitment. <i>American Journal of Pathology</i> , 2011, 178, 2437-2446.	3.8	43
69	The integrin α M β 2 anchors hematopoietic progenitors in the bone marrow during enforced mobilization. <i>Blood</i> , 2004, 104, 993-1001.	1.4	41
70	Neutrophils as effectors of vascular inflammation. <i>European Journal of Clinical Investigation</i> , 2018, 48, e12940.	3.4	41
71	Intravenous Immunoglobulins Modulate Neutrophil Activation and Vascular Injury Through Fc γ RIII and SHP-1. <i>Circulation Research</i> , 2012, 110, 1057-1066.	4.5	40
72	Neutrophils as regulators of the hematopoietic niche. <i>Blood</i> , 2019, 133, 2140-2148.	1.4	40

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73	T Cells Prevent Hemorrhagic Transformation in Ischemic Stroke by P-Selectin Binding. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1761-1771.	2.4	38
74	In vivo imaging of lung inflammation with neutrophil-specific 68Ga nano-radiotracer. <i>Scientific Reports</i> , 2017, 7, 13242.	3.3	37
75	Sex Hormones Coordinate Neutrophil Immunity in the Vagina by Controlling Chemokine Gradients. <i>Journal of Infectious Diseases</i> , 2016, 213, 476-484.	4.0	33
76	Essential Roles of Cohesin STAG2 in Mouse Embryonic Development and Adult Tissue Homeostasis. <i>Cell Reports</i> , 2020, 32, 108014.	6.4	33
77	Circadian immune circuits. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	32
78	Coordinated and unique functions of the E-selectin ligand ESL-1 during inflammatory and hematopoietic recruitment in mice. <i>Blood</i> , 2013, 122, 3993-4001.	1.4	31
79	Sphingosine-1-phosphate activates chemokine-promoted myeloma cell adhesion and migration involving $\beta_4\beta_1$ integrin function. <i>Journal of Pathology</i> , 2013, 229, 36-48.	4.5	30
80	Platelets orchestrate the resolution of pulmonary inflammation in mice by T reg cell repositioning and macrophage education. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	30
81	Differential Use of Very Late Antigen-4 and -5 Integrins by Hematopoietic Precursors and Myeloma Cells to Adhere to Transforming Growth Factor- β 1-treated Bone Marrow Stroma. <i>Journal of Biological Chemistry</i> , 1998, 273, 12056-12060.	3.4	28
82	Nuclear Receptors and Clearance of Apoptotic Cells: Stimulating the Macrophage's Appetite. <i>Frontiers in Immunology</i> , 2014, 5, 211.	4.8	28
83	Rapid Up-Regulation of β_4 Integrin-mediated Leukocyte Adhesion by Transforming Growth Factor- β 1. <i>Molecular Biology of the Cell</i> , 2003, 14, 54-66.	2.1	27
84	Human influenza A virus causes myocardial and cardiac-specific conduction system infections associated with early inflammation and premature death. <i>Cardiovascular Research</i> , 2021, 117, 876-889.	3.8	27
85	In vivo adhesion of malignant B cells to bone marrow microvasculature is regulated by $\beta_4\beta_1$ cytoplasmic-binding proteins. <i>Leukemia</i> , 2016, 30, 861-872.	7.2	26
86	Neutrophil infiltration regulates clock-gene expression to organize daily hepatic metabolism. <i>ELife</i> , 2020, 9, .	6.0	26
87	A NET-thrombosis axis in COVID-19. <i>Blood</i> , 2020, 136, 1118-1119.	1.4	25
88	Specialized functions of resident macrophages in brain and heart. <i>Journal of Leukocyte Biology</i> , 2018, 104, 743-756.	3.3	24
89	Estrogen Receptor-Alpha (ESR1) Governs the Lower Female Reproductive Tract Vulnerability to <i>Candida albicans</i> . <i>Frontiers in Immunology</i> , 2018, 9, 1033.	4.8	22
90	Macrophages, Metabolism and Heterophagy in the Heart. <i>Circulation Research</i> , 2022, 130, 418-431.	4.5	21

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91	Dimensions of neutrophil life and fate. <i>Seminars in Immunology</i> , 2021, 57, 101506.	5.6	20
92	Leukocyte Podosomes Sense Their Way through the Endothelium. <i>Immunity</i> , 2007, 26, 753-755.	14.3	18
93	Innate immune cells as homeostatic regulators of the hematopoietic niche. <i>International Journal of Hematology</i> , 2014, 99, 685-694.	1.6	18
94	Haematopoietic ESL-1 enables stem cell proliferation in the bone marrow by limiting TGF β 2 availability. <i>Nature Communications</i> , 2016, 7, 10222.	12.8	16
95	Mitochondrial Adaptations in the Growing Heart. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 308-319.	7.1	16
96	Liposome induction of CD8+ T cell responses depends on CD169+ macrophages and Batf3-dependent dendritic cells and is enhanced by GM3 inclusion. <i>Journal of Controlled Release</i> , 2021, 331, 309-320.	9.9	15
97	Brief Report: Reduced Expression of CD18 Leads to the In Vivo Expansion of Hematopoietic Stem Cells in Mouse Bone Marrow. <i>Stem Cells</i> , 2014, 32, 2794-2798.	3.2	13
98	Emerging roles of infiltrating granulocytes and monocytes in homeostasis. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3823-3830.	5.4	12
99	Molecular and biophysical mechanisms behind the enhancement of lung surfactant function during controlled therapeutic hypothermia. <i>Scientific Reports</i> , 2021, 11, 728.	3.3	11
100	CD44-Mediated Hematopoietic Progenitor Cell Adhesion and Its Complex Role in Myelopoiesis. <i>Journal of Hematotherapy and Stem Cell Research</i> , 2002, 11, 539-547.	1.8	9
101	Thrombo-tag, an <i>in vivo</i> formed nanotracer for the detection of thrombi in mice by fast pre-targeted molecular imaging. <i>Nanoscale</i> , 2020, 12, 22978-22987.	5.6	9
102	How to bridle a neutrophil. <i>Current Opinion in Immunology</i> , 2021, 68, 41-47.	5.5	9
103	Delayed alveolar clearance of nanoparticles through control of coating composition and interaction with lung surfactant protein A. <i>Materials Science and Engineering C</i> , 2022, 134, 112551.	7.3	9
104	CD45 expression discriminates waves of embryonic megakaryocytes in the mouse. <i>Haematologica</i> , 2019, 104, 1853-1865.	3.5	8
105	ACME: Automatic feature extraction for cell migration examination through intravital microscopy imaging. <i>Medical Image Analysis</i> , 2022, 77, 102358.	11.6	8
106	When integrins fail to integrate. <i>Nature Medicine</i> , 2009, 15, 249-250.	30.7	7
107	Immunity: Neutrophil Quorum at the Wound. <i>Current Biology</i> , 2020, 30, R828-R830.	3.9	7
108	Bone Marrow Transplantation in Mice to Study the Role of Hematopoietic Cells in Atherosclerosis. <i>Methods in Molecular Biology</i> , 2015, 1339, 323-332.	0.9	6

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109	Combined statistical modeling enables accurate mining of circadian transcription. NAR Genomics and Bioinformatics, 2021, 3, lqab031.	3.2	6
110	Neutrophil subtypes shape HIV-specific CD8 T-cell responses after vaccinia virus infection. Npj Vaccines, 2021, 6, 52.	6.0	6
111	Galactocerebrosides, Essential for Hematopoietic Progenitor Mobilization, Regulate SDF-1 (CXCL12)-Mediated Attraction to Bone.. Blood, 2004, 104, 665-665.	1.4	6
112	Leducq Transatlantic Network on Clonal Hematopoiesis and Atherosclerosis. Circulation Research, 2019, 124, 481-483.	4.5	5
113	Editorial: Leukocyte Trafficking in Homeostasis and Disease. Frontiers in Immunology, 2019, 10, 2560.	4.8	5
114	Isolation of exophers from cardiomyocyte-reporter mouse strains by fluorescence-activated cell sorting. STAR Protocols, 2021, 2, 100286.	1.2	5
115	Activated Platelets Jam Up the Plaque. Circulation Research, 2015, 116, 557-559.	4.5	4
116	Hematopoietic stem cell homing: The long, winding and adhesive road to the bone marrow. Immunologia (Barcelona, Spain: 1987), 2008, 27, 22-35.	0.1	3
117	Neutrophils set the bone marrow on fire. Blood, 2017, 129, 540-542.	1.4	2
118	Neutrophils acROs the Enemy Lines. Immunity, 2017, 46, 335-337.	14.3	2
119	Sickle Cell Vaso-Occlusion Is Triggered by E-Selectin Ligand Signaling and Propagated by the Leukocyte Integrin Mac-1.. Blood, 2007, 110, 145-145.	1.4	2
120	Fibrin sparks inflammation in the oral mucosa. Science, 2021, 374, 1559-1560.	12.6	2
121	Measuring Circadian Neutrophil Infiltration in Tissues by Paired Whole-Mount Tissue Clearing and Flow Cytometry. Methods in Molecular Biology, 2022, , 265-284.	0.9	2
122	A hypoxic ride for neutrophils in PDAC. Gut, 2023, 72, 817-818.	12.1	2
123	Angiogenin Defines Heterogeneity at the Core of the Hematopoietic Niche. Cell Stem Cell, 2016, 19, 284-286.	11.1	1
124	Bidirectional dialog in the haematopoietic niche. Cell Cycle, 2016, 15, 1027-1028.	2.6	1
125	Contributions of Immune Cells to Vascular Occlusion in Sickle Cell Disease.. Blood, 2008, 112, sci-44-sci-44.	1.4	1
126	In Vivo Imaging of Circadian NET Formation During Lung Injury by Four-Dimensional Intravital Microscopy. Methods in Molecular Biology, 2022, , 285-300.	0.9	1

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127	Multicellular cuddling in a stem cell niche. <i>Cell Adhesion and Migration</i> , 2015, 9, 280-282.	2.7	0
128	In memory of Paul Sylvain Frenette, a pioneering explorer of the hematopoietic stem cell niche who left far too early. <i>Experimental Hematology</i> , 2021, , .	0.4	0
129	In memory of a game-changing haematologist. <i>Nature</i> , 2021, 597, 31-31.	27.8	0
130	Paul S. Frenette (1965–2021). <i>Nature Cell Biology</i> , 2021, 23, 1049-1050.	10.3	0
131	Real-Time Identification of Leukocyte Subsets and Cell Surface Receptor Microdomains in the Microvasculature of Wild-Type and Sickle Cell Mice In Vivo.. <i>Blood</i> , 2006, 108, 1229-1229.	1.4	0
132	ESL-1 Is a Major Physiological Leukocyte Ligand for E-Selectin That Cooperates with PSGL-1 and CD44, and Together Mediate All Binding Activity to Endothelial Selectins In Vivo.. <i>Blood</i> , 2006, 108, 1787-1787.	1.4	0
133	Transfusion-Related Acute Lung Injury (TRALI) Requires Heterotypic Interactions of Platelets with Specific Neutrophil Microdomains. <i>Blood</i> , 2008, 112, 288-288.	1.4	0
134	ICAP ¹ loss impairs CD8 ⁺ thymocyte development and leads to reduced marginal zone B cells in mice. <i>European Journal of Immunology</i> , 2022, , .	2.9	0
135	Immune riders on the cardiac STORM. , 2022, 1, 603-604.		0