Anna Huttenlocher

List of Publications by Year
in descending order

94 papers	7,734 citations	71102 41 h-index	56724 83 g-index
104 all docs	104 docs citations	104 times ranked	10237 citing authors

#	Article	IF	Citations
1	Neutrophil migration in infection and wound repair: going forward in reverse. Nature Reviews Immunology, 2016, 16, 378-391.	22.7	736
2	Integrins in Cell Migration. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005074-a005074.	5.5	603
3	Resolution of inflammation by retrograde chemotaxis of neutrophils in transgenic zebrafish. Journal of Leukocyte Biology, 2006, 80, 1281-1288.	3.3	457
4	Neutrophils in the Tumor Microenvironment. Trends in Immunology, 2016, 37, 41-52.	6.8	456
5	Neutrophil plasticity in the tumor microenvironment. Blood, 2019, 133, 2159-2167.	1.4	392
6	Lyn is a redox sensor that mediates leukocyte wound attraction in vivo. Nature, 2011, 480, 109-112.	27.8	388
7	Differential Regulation of Protrusion and Polarity by PI(3)K during Neutrophil Motility in Live Zebrafish. Developmental Cell, 2010, 18, 226-236.	7.0	338
8	Early redox, Src family kinase, and calcium signaling integrate wound responses and tissue regeneration in zebrafish. Journal of Cell Biology, 2012, 199, 225-234.	5.2	179
9	Spatiotemporal photolabeling of neutrophil trafficking during inflammation in live zebrafish. Journal of Leukocyte Biology, 2011, 89, 661-667.	3.3	159
10	Live imaging of neutrophil motility in a zebrafish model of WHIM syndrome. Blood, 2010, 116, 2803-2811.	1.4	149
11	Characterization of zebrafish larval inflammatory macrophages. Developmental and Comparative Immunology, 2009, 33, 1212-1217.	2.3	139
12	Dual Roles for Rac2 in Neutrophil Motility and Active Retention in Zebrafish Hematopoietic Tissue. Developmental Cell, 2011, 21, 735-745.	7.0	133
13	Metformin modulates innate immune-mediated inflammation and early progression of NAFLD-associated hepatocellular carcinoma in zebrafish. Journal of Hepatology, 2019, 70, 710-721.	3.7	122
14	Redox and Src family kinase signaling control leukocyte wound attraction and neutrophil reverse migration. Journal of Cell Biology, 2014, 207, 589-598.	5.2	119
15	Neutrophil phenotypes and functions in cancer: A consensus statement. Journal of Experimental Medicine, 2022, 219, .	8.5	119
16	Leading from the Back: The Role of the Uropod in Neutrophil Polarization and Migration. Developmental Cell, 2016, 38, 161-169.	7.0	118
17	Live imaging of chronic inflammation caused by mutation of zebrafish Hai1. Journal of Cell Science, 2007, 120, 3372-3383.	2.0	117
18	Matrix metalloproteinase 9 modulates collagen matrices and wound repair. Development (Cambridge), 2015, 142, 2136-2146.	2.5	111

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19	Characterization of Aspergillus fumigatus Isolates from Air and Surfaces of the International Space Station. MSphere, 2016, 1, .	2.9	108
20	Macrophages inhibit Aspergillus fumigatus germination and neutrophil-mediated fungal killing. PLoS Pathogens, 2018, 14, e1007229.	4.7	106
21	The Extracellular Matrix of Candida albicans Biofilms Impairs Formation of Neutrophil Extracellular Traps. PLoS Pathogens, 2016, 12, e1005884.	4.7	105
22	Neutrophils in host defense: new insights from zebrafish. Journal of Leukocyte Biology, 2015, 98, 523-537.	3.3	103
23	Chemokine Signaling and the Regulation of Bidirectional Leukocyte Migration in Interstitial Tissues. Cell Reports, 2017, 19, 1572-1585.	6.4	103
24	Aspergillus fumigatus Copper Export Machinery and Reactive Oxygen Intermediate Defense Counter Host Copper-Mediated Oxidative Antimicrobial Offense. Cell Reports, 2017, 19, 1008-1021.	6.4	95
25	Live imaging reveals distinct modes of neutrophil and macrophage migration within interstitial tissues. Journal of Cell Science, 2017, 130, 3801-3808.	2.0	95
26	Localized bacterial infection induces systemic activation of neutrophils through Cxcr2 signaling in zebrafish. Journal of Leukocyte Biology, 2013, 93, 761-769.	3.3	94
27	Innate Immune Response to Streptococcus iniae Infection in Zebrafish Larvae. Infection and Immunity, 2013, 81, 110-121.	2.2	91
28	Distinct Innate Immune Phagocyte Responses to Aspergillus fumigatus Conidia and Hyphae in Zebrafish Larvae. Eukaryotic Cell, 2014, 13, 1266-1277.	3.4	82
29	Adenosine signaling promotes hematopoietic stem and progenitor cell emergence. Journal of Experimental Medicine, 2015, 212, 649-663.	8.5	73
30	Macrophages mediate flagellin induced inflammasome activation and host defense in zebrafish. Cellular Microbiology, 2016, 18, 591-604.	2.1	72
31	Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish. ELife, 2019, 8, .	6.0	72
32	The role of microtubules in neutrophil polarity and migration in live zebrafish. Journal of Cell Science, 2012, 125, 5702-5710.	2.0	70
33	In Vivo Imaging and Characterization of Actin Microridges. PLoS ONE, 2015, 10, e0115639.	2.5	64
34	Distinct signalling mechanisms mediate neutrophil attraction to bacterial infection and tissue injury. Cellular Microbiology, 2012, 14, 517-528.	2.1	63
35	Reverse leukocyte migration can be attractive or repulsive. Trends in Cell Biology, 2008, 18, 298-306.	7.9	61
36	Efficient Front-Rear Coupling in Neutrophil Chemotaxis by Dynamic Myosin II Localization. Developmental Cell, 2019, 49, 189-205.e6.	7.0	59

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37	Switching to the cyclic pentose phosphate pathway powers the oxidative burst in activated neutrophils. Nature Metabolism, 2022, 4, 389-403.	11.9	58
38	Damage-induced reactive oxygen species regulate vimentin and dynamic collagen-based projections to mediate wound repair. ELife, 2018, 7, .	6.0	57
39	A Zebrafish Model of Cryptococcal Infection Reveals Roles for Macrophages, Endothelial Cells, and Neutrophils in the Establishment and Control of Sustained Fungemia. Infection and Immunity, 2016, 84, 3047-3062.	2.2	56
40	Filopodia and focal adhesions: An integrated system driving branching morphogenesis in neuronal pathfinding and angiogenesis. Developmental Biology, 2019, 451, 86-95.	2.0	56
41	Inflammation and wound repair. Seminars in Immunology, 2014, 26, 315-320.	5.6	54
42	Live Imaging and Gene Expression Analysis in Zebrafish Identifies a Link between Neutrophils and Epithelial to Mesenchymal Transition. PLoS ONE, 2014, 9, e112183.	2.5	52
43	The SH2-domain-containing inositol 5-phosphatase (SHIP) limits neutrophil motility and wound recruitment in zebrafish. Journal of Cell Science, 2012, 125, 4973-8.	2.0	48
44	The Zebrafish as a Model Host for Invasive Fungal Infections. Journal of Fungi (Basel, Switzerland), 2018, 4, 136.	3.5	47
45	Cxcr1 mediates recruitment of neutrophils and supports proliferation of tumor-initiating astrocytes in vivo. Scientific Reports, 2018, 8, 13285.	3.3	47
46	Rac2 Functions in Both Neutrophils and Macrophages To Mediate Motility and Host Defense in Larval Zebrafish. Journal of Immunology, 2016, 197, 4780-4790.	0.8	46
47	An Accessible Organotypic Microvessel Model Using iPSCâ€Derived Endothelium. Advanced Healthcare Materials, 2018, 7, 1700497.	7.6	42
48	Citrullination of fibronectin modulates synovial fibroblast behavior. Arthritis Research and Therapy, 2012, 14, R240.	3.5	40
49	Phenotypical microRNA screen reveals a noncanonical role of CDK2 in regulating neutrophil migration. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18561-18570.	7.1	39
50	Interaction with an endothelial lumen increases neutrophil lifetime and motility in response to P aeruginosa. Blood, 2018, 132, 1818-1828.	1.4	36
51	Integrin associated proteins differentially regulate neutrophil polarity and directed migration in 2D and 3D. Biomedical Microdevices, 2015, 17, 100.	2.8	33
52	Contributions of Spore Secondary Metabolites to UV-C Protection and Virulence Vary in Different Aspergillus fumigatus Strains. MBio, 2020, 11, .	4.1	32
53	Functional Characterization of Clinical Isolates of the Opportunistic Fungal Pathogen Aspergillus nidulans. MSphere, 2020, 5, .	2.9	32
54	zWEDGI: Wounding and Entrapment Device for Imaging Live Zebrafish Larvae. Zebrafish, 2017, 14, 42-50.	1.1	31

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55	Effective and Rapid Generation of Functional Neutrophils from Induced Pluripotent Stem Cells Using ETV2-Modified mRNA. Stem Cell Reports, 2019, 13, 1099-1110.	4.8	31
56	Strategies from UW-Madison for rescuing biomedical research in the US. ELife, 2015, 4, e09305.	6.0	30
57	Neutrophil trafficking on-a-chip: an in vitro, organotypic model for investigating neutrophil priming, extravasation, and migration with spatiotemporal control. Lab on A Chip, 2019, 19, 3697-3705.	6.0	27
58	Heat Shock Modulates Neutrophil Motility in Zebrafish. PLoS ONE, 2013, 8, e84436.	2.5	26
59	Neutrophil Motility In Vivo Using Zebrafish. Methods in Molecular Biology, 2009, 571, 151-166.	0.9	24
60	Neutrophil phagocyte oxidase activity controls invasive fungal growth and inflammation in zebrafish. Journal of Cell Science, 2020, 133, .	2.0	24
61	Real-time visualization of immune cell clearance of Aspergillus fumigatus spores and hyphae. Fungal Genetics and Biology, 2017, 105, 52-54.	2.1	23
62	Candida auris Cell Wall Mannosylation Contributes to Neutrophil Evasion through Pathways Divergent from Candida albicans and Candida glabrata. MSphere, 2021, 6, e0040621.	2.9	23
63	Spinning Disk Confocal Imaging of Neutrophil Migration in Zebrafish. Methods in Molecular Biology, 2014, 1124, 219-233.	0.9	21
64	Neutrophil Reverse Migration and a Chemokinetic Resolution. Developmental Cell, 2018, 47, 404-405.	7.0	19
65	In vivo fluorescence lifetime imaging of macrophage intracellular metabolism during wound responses in zebrafish. ELife, 2022, 11, .	6.0	19
66	Neutrophils, Wounds, and Cancer Progression. Developmental Cell, 2015, 34, 134-136.	7.0	18
67	Myeloid-derived growth factor regulates neutrophil motility in interstitial tissue damage. Journal of Cell Biology, 2021, 220, .	5.2	18
68	Neutrophil derived LTB4 induces macrophage aggregation in response to encapsulated Streptococcus iniae infection. PLoS ONE, 2017, 12, e0179574.	2.5	17
69	Efficacy of Voriconazole against Aspergillus fumigatus Infection Depends on Host Immune Function. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	17
70	Cell type specific gene expression profiling reveals a role for complement component C3 in neutrophil responses to tissue damage. Scientific Reports, 2020, 10, 15716.	3.3	16
71	Mammalian Actin-binding Protein-1/Hip-55 Interacts with FHL2 and Negatively Regulates Cell Invasion. Journal of Biological Chemistry, 2016, 291, 13987-13998.	3.4	15
72	Selenate sensitivity of a laeA mutant is restored by overexpression of the bZIP protein MetR in Aspergillus fumigatus. Fungal Genetics and Biology, 2018, 117, 1-10.	2.1	15

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73	Immune Cell Paracrine Signaling Drives the Neutrophil Response to A. fumigatus in an Infection-on-a-Chip Model. Cellular and Molecular Bioengineering, 2021, 14, 133-145.	2.1	15
74	Realâ€time imaging of inflammation and its resolution: Itâ€™s apparent because itâ€™s transparent*. Immunological Reviews, 2022, 306, 258-270.	6.0	14
75	Distinct Tissue Damage and Microbial Cues Drive Neutrophil and Macrophage Recruitment to Thermal Injury. IScience, 2020, 23, 101699.	4.1	13
76	Non-invasive Imaging of the Innate Immune Response in a Zebrafish Larval Model of Streptococcus iniae Infection. Journal of Visualized Experiments, 2015, , .	0.3	12
77	Cell Migration Guided by Cellâ€“Cell Contacts in Innate Immunity. Trends in Cell Biology, 2021, 31, 86-94.	7.9	11
78	Motile Collectors: Platelets Promote Innate Immunity. Immunity, 2018, 48, 16-18.	14.3	9
79	Citrullination regulates wound responses and tissue regeneration in zebrafish. Journal of Cell Biology, 2020, 219, .	5.2	9
80	Anomalous diffusion and asymmetric tempering memory in neutrophil chemotaxis. PLoS Computational Biology, 2022, 18, e1010089.	3.2	9
81	DnaJ-PKAc fusion induces liver inflammation in a zebrafish model of Fibrolamellar Carcinoma. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	7
82	Long-term Live Imaging Device for Improved Experimental Manipulation of Zebrafish Larvae. Journal of Visualized Experiments, 2017, , .	0.3	6
83	A reconfigurable microscale assay enables insights into cancer-associated fibroblast modulation of immune cell recruitment. Integrative Biology (United Kingdom), 2021, 13, 87-97.	1.3	6
84	Swarming motility in host defense. Science, 2021, 372, 1262-1263.	12.6	6
85	Signal integration in forward and reverse neutrophil migration: Fundamentals and emerging mechanisms. Current Opinion in Cell Biology, 2021, 72, 124-130.	5.4	6
86	Centriole and Golgi microtubule nucleation are dispensable for the migration of human neutrophil-like cells. Molecular Biology of the Cell, 2021, 32, 1545-1556.	2.1	5
87	Microfluidic Systems to Study Neutrophil Forward and Reverse Migration. Frontiers in Immunology, 2021, 12, 781535.	4.8	5
88	Generation of Human Neutrophils from Induced Pluripotent Stem Cells in Chemically Defined Conditions Using ETV2 Modified mRNA. STAR Protocols, 2020, 1, 100075.	1.2	4
89	Guide to the Larval Zebrafishâ€‹Aspergillus Infection Model. Current Protocols, 2021, 1, e317.	2.9	3
90	Editorial overview: Cell adhesion and migration. Current Opinion in Cell Biology, 2014, 30, v-vi.	5.4	1

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91	Zena Werb (1945â€“2020): Cell biology in context. Journal of Cell Biology, 2020, 219, .	5.2	1
92	Cell Type-Specific Transcriptome Profiling Reveals a Role for Thioredoxin During Tumor Initiation. Frontiers in Immunology, 2022, 13, 818893.	4.8	1
93	Mutations in Lyn Kinase Causes Changes in Neutrophil Function and Migration. FASEB Journal, 2018, 32, .	0.5	0
94	Elucidating interactions between zebrafish innate immune system and cancer progression. FASEB Journal, 2018, 32, 804.34.	0.5	0