Anna Huttenlocher

List of Publications by Citations

93 papers	5,204 citations	35 h-index	71 g-index
104 ext. papers	6,741 ext. citations	7.8 avg, IF	6.29 L-index

#	Paper	IF	Citations
93	Integrins in cell migration. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3, a005074	10.2	521
92	Neutrophil migration in infection and wound repair: going forward in reverse. *Nature Reviews Immunology*, **2016**, 16, 378-91	36.5	479
91	Resolution of inflammation by retrograde chemotaxis of neutrophils in transgenic zebrafish. *Journal of Leukocyte Biology*, **2006**, 80, 1281-8	6.5	369
90	Neutrophils in the Tumor Microenvironment. *Trends in Immunology*, **2016**, 37, 41-52	14.4	332
89	Lyn is a redox sensor that mediates leukocyte wound attraction in vivo. *Nature*, **2011**, 480, 109-12	50.4	323
88	Differential regulation of protrusion and polarity by PI3K during neutrophil motility in live zebrafish. *Developmental Cell*, **2010**, 18, 226-36	10.2	264
87	Neutrophil plasticity in the tumor microenvironment. *Blood*, **2019**, 133, 2159-2167	2.2	164
86	Early redox, Src family kinase, and calcium signaling integrate wound responses and tissue regeneration in zebrafish. *Journal of Cell Biology*, **2012**, 199, 225-34	7.3	147
85	Live imaging of neutrophil motility in a zebrafish model of WHIM syndrome. *Blood*, **2010**, 116, 2803-11	2.2	128
84	Spatiotemporal photolabeling of neutrophil trafficking during inflammation in live zebrafish. *Journal of Leukocyte Biology*, **2011**, 89, 661-7	6.5	109
83	Characterization of zebrafish larval inflammatory macrophages. *Developmental and Comparative Immunology*, **2009**, 33, 1212-7	3.2	103
82	Live imaging of chronic inflammation caused by mutation of zebrafish Hai1. *Journal of Cell Science*, **2007**, 120, 3372-83	5.3	101
81	Dual roles for Rac2 in neutrophil motility and active retention in zebrafish hematopoietic tissue. *Developmental Cell*, **2011**, 21, 735-45	10.2	94
80	Redox and Src family kinase signaling control leukocyte wound attraction and neutrophil reverse migration. *Journal of Cell Biology*, **2014**, 207, 589-98	7.3	89
79	Localized bacterial infection induces systemic activation of neutrophils through Cxcr2 signaling in zebrafish. *Journal of Leukocyte Biology*, **2013**, 93, 761-9	6.5	81
78	Neutrophils in host defense: new insights from zebrafish. *Journal of Leukocyte Biology*, **2015**, 98, 523-37	6.5	79
77	Leading from the Back: The Role of the Uropod in Neutrophil Polarization and Migration. *Developmental Cell*, **2016**, 38, 161-9	10.2	76

76	Matrix metalloproteinase 9 modulates collagen matrices and wound repair. *Development (Cambridge)*, **2015**, 142, 2136-46	6.6	74
75	The Extracellular Matrix of Candida albicans Biofilms Impairs Formation of Neutrophil Extracellular Traps. *PLoS Pathogens*, **2016**, 12, e1005884	7.6	74
74	Innate immune response to Streptococcus iniae infection in zebrafish larvae. *Infection and Immunity* , **2013**, 81, 110-21	3.7	67
73	Adenosine signaling promotes hematopoietic stem and progenitor cell emergence. *Journal of Experimental Medicine*, **2015**, 212, 649-63	16.6	63
72	Chemokine Signaling and the Regulation of Bidirectional Leukocyte Migration in Interstitial Tissues. *Cell Reports*, **2017**, 19, 1572-1585	10.6	62
71	Characterization of Isolates from Air and Surfaces of the International Space Station. *MSphere*, **2016**, 1,	5	61
70	Distinct innate immune phagocyte responses to Aspergillus fumigatus conidia and hyphae in zebrafish larvae. *Eukaryotic Cell*, **2014**, 13, 1266-77		58
69	The role of microtubules in neutrophil polarity and migration in live zebrafish. *Journal of Cell Science*, **2012**, 125, 5702-10	5.3	58
68	Reverse leukocyte migration can be attractive or repulsive. *Trends in Cell Biology*, **2008**, 18, 298-306	18.3	54
67	Metformin modulates innate immune-mediated inflammation and early progression of NAFLD-associated hepatocellular carcinoma in zebrafish. *Journal of Hepatology*, **2019**, 70, 710-721	13.4	54
66	Aspergillus fumigatus Copper Export Machinery and Reactive Oxygen Intermediate Defense Counter Host Copper-Mediated Oxidative Antimicrobial Offense. *Cell Reports*, **2017**, 19, 1008-1021	10.6	52
65	Distinct signalling mechanisms mediate neutrophil attraction to bacterial infection and tissue injury. *Cellular Microbiology*, **2012**, 14, 517-28	3.9	52
64	Macrophages mediate flagellin induced inflammasome activation and host defense in zebrafish. *Cellular Microbiology*, **2016**, 18, 591-604	3.9	50
63	Macrophages inhibit Aspergillus fumigatus germination and neutrophil-mediated fungal killing. *PLoS Pathogens*, **2018**, 14, e1007229	7.6	49
62	Live imaging reveals distinct modes of neutrophil and macrophage migration within interstitial tissues. *Journal of Cell Science*, **2017**, 130, 3801-3808	5.3	45
61	Live imaging and gene expression analysis in zebrafish identifies a link between neutrophils and epithelial to mesenchymal transition. *PLoS ONE*, **2014**, 9, e112183	3.7	43
60	The SH2-domain-containing inositol 5-phosphatase (SHIP) limits the motility of neutrophils and their recruitment to wounds in zebrafish. *Journal of Cell Science*, **2012**, 125, 4973-8	5.3	42
59	Inflammation and wound repair. *Seminars in Immunology*, **2014**, 26, 315-20	10.7	38

58	Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish. *ELife*, **2019**, 8,	8.9	35
57	An Accessible Organotypic Microvessel Model Using iPSC-Derived Endothelium. *Advanced Healthcare Materials*, **2018**, 7, 1700497	10.1	34
56	Citrullination of fibronectin modulates synovial fibroblast behavior. *Arthritis Research and Therapy*, **2012**, 14, R240	5.7	33
55	Rac2 Functions in Both Neutrophils and Macrophages To Mediate Motility and Host Defense in Larval Zebrafish. *Journal of Immunology*, **2016**, 197, 4780-4790	5.3	32
54	Damage-induced reactive oxygen species regulate and dynamic collagen-based projections to mediate wound repair. *ELife*, **2018**, 7,	8.9	32
53	Efficient Front-Rear Coupling in Neutrophil Chemotaxis by Dynamic Myosin II Localization. *Developmental Cell*, **2019**, 49, 189-205.e6	10.2	30
52	In vivo imaging and characterization of actin microridges. *PLoS ONE*, **2015**, 10, e0115639	3.7	30
51	Cxcr1 mediates recruitment of neutrophils and supports proliferation of tumor-initiating astrocytes in vivo. *Scientific Reports*, **2018**, 8, 13285	4.9	28
50	Filopodia and focal adhesions: An integrated system driving branching morphogenesis in neuronal pathfinding and angiogenesis. *Developmental Biology*, **2019**, 451, 86-95	3.1	26
49	The Zebrafish as a Model Host for Invasive Fungal Infections. *Journal of Fungi (Basel, Switzerland)*, **2018**, 4,	5.6	26
48	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	11.5	25
47	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, 3047-62	3.7	25
46	Strategies from UW-Madison for rescuing biomedical research in the US. *ELife*, **2015**, 4, e09305	8.9	23
45	Integrin associated proteins differentially regulate neutrophil polarity and directed migration in 2D and 3D. *Biomedical Microdevices*, **2015**, 17, 100	3.7	22
44	Heat shock modulates neutrophil motility in zebrafish. *PLoS ONE*, **2013**, 8, e84436	3.7	21
43	Neutrophil motility in vivo using zebrafish. *Methods in Molecular Biology*, **2009**, 571, 151-66	1.4	20
42	Functional Characterization of Clinical Isolates of the Opportunistic Fungal Pathogen Aspergillus nidulans. *MSphere*, **2020**, 5,	5	20
41	Interaction with an endothelial lumen increases neutrophil lifetime and motility in response to. *Blood*, **2018**, 132, 1818-1828	2.2	19

40	zWEDGI: Wounding and Entrapment Device for Imaging Live Zebrafish Larvae. *Zebrafish*, **2017**, 14, 42-502		19
39	Contributions of Spore Secondary Metabolites to UV-C Protection and Virulence Vary in Different Aspergillus fumigatus Strains. *MBio*, **2020**, 11,	7.8	17
38	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	7.2	16
37	Real-time visualization of immune cell clearance of Aspergillus fumigatus spores and hyphae. *Fungal Genetics and Biology*, **2017**, 105, 52-54	3.9	15
36	Spinning disk confocal imaging of neutrophil migration in zebrafish. *Methods in Molecular Biology*, **2014**, 1124, 219-33	1.4	15
35	Neutrophil Reverse Migration and a Chemokinetic Resolution. *Developmental Cell*, **2018**, 47, 404-405	10.2	13
34	Neutrophil derived LTB4 induces macrophage aggregation in response to encapsulated Streptococcus iniae infection. *PLoS ONE*, **2017**, 12, e0179574	3.7	11
33	Neutrophil phagocyte oxidase activity controls invasive fungal growth and inflammation in zebrafish. *Journal of Cell Science*, **2019**, 133,	5.3	11
32	Mammalian Actin-binding Protein-1/Hip-55 Interacts with FHL2 and Negatively Regulates Cell Invasion. *Journal of Biological Chemistry*, **2016**, 291, 13987-13998	5.4	11
31	Neutrophils, wounds, and cancer progression. *Developmental Cell*, **2015**, 34, 134-6	10.2	9
30	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	3.9	9
29	Effective and Rapid Generation of Functional Neutrophils from Induced Pluripotent Stem Cells Using ETV2-Modified mRNA. *Stem Cell Reports*, **2019**, 13, 1099-1110	8	9
28	Cell type specific gene expression profiling reveals a role for complement component C3 in neutrophil responses to tissue damage. *Scientific Reports*, **2020**, 10, 15716	4.9	9
27	Non-invasive Imaging of the Innate Immune Response in a Zebrafish Larval Model of Streptococcus iniae Infection. *Journal of Visualized Experiments*, **2015**,	1.6	7
26	Distinct Tissue Damage and Microbial Cues Drive Neutrophil and Macrophage Recruitment to Thermal Injury. *IScience*, **2020**, 23, 101699	6.1	7
25	Immune Cell Paracrine Signaling Drives the Neutrophil Response to in an Infection-on-a-Chip Model. *Cellular and Molecular Bioengineering*, **2021**, 14, 133-145	3.9	6
24	Efficacy of Voriconazole against Aspergillus fumigatus Infection Depends on Host Immune Function. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	5
23	Motile Collectors: Platelets Promote Innate Immunity. *Immunity*, **2018**, 48, 16-18	32.3	5

22	Functional characterization of clinical isolates of the opportunistic fungal pathogen Aspergillus nidulans		5
21	Myeloid-derived growth factor regulates neutrophil motility in interstitial tissue damage. *Journal of Cell Biology*, **2021**, 220,	7.3	5
20	Long-term Live Imaging Device for Improved Experimental Manipulation of Zebrafish Larvae. *Journal of Visualized Experiments*, **2017**,	1.6	4
19	Citrullination regulates wound responses and tissue regeneration in zebrafish. *Journal of Cell Biology*, **2020**, 219,	7.3	4
18	Candida auris Cell Wall Mannosylation Contributes to Neutrophil Evasion through Pathways Divergent from Candida albicans and Candida glabrata. *MSphere*, **2021**, 6, e0040621	5	4
17	Cell Migration Guided by Cell-Cell Contacts in Innate Immunity. *Trends in Cell Biology*, **2021**, 31, 86-94	18.3	4
16	Real-time imaging of inflammation and its resolution: It's apparent because it's transparent.. *Immunological Reviews*, **2022**,	11.3	3
15	DnaJ-PKAc fusion induces liver inflammation in a zebrafish model of fibrolamellar carcinoma. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	2
14	Author response: Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish **2019**,		2
13	A reconfigurable microscale assay enables insights into cancer-associated fibroblast modulation of immune cell recruitment. *Integrative Biology (United Kingdom)*, **2021**, 13, 87-97	3.7	2
12	Swarming motility in host defense. *Science*, **2021**, 372, 1262-1263	33.3	2
11	Signal integration in forward and reverse neutrophil migration: Fundamentals and emerging mechanisms. *Current Opinion in Cell Biology*, **2021**, 72, 124-130	9	2
10	Microfluidic Systems to Study Neutrophil Forward and Reverse Migration.. *Frontiers in Immunology*, **2021**, 12, 781535	8.4	1
9	Citrullination regulates wound responses and tissue regeneration in zebrafish		1
8	In vivofluorescence lifetime imaging captures metabolic changes in macrophages during wound responses in zebrafish		1
7	Generation of Human Neutrophils from Induced Pluripotent Stem Cells in Chemically Defined Conditions Using Modified mRNA. *STAR Protocols*, **2020**, 1, 100075-100075	1.4	1
6	Centriole and Golgi microtubule nucleation are dispensable for the migration of human neutrophil-like cells. *Molecular Biology of the Cell*, **2021**, 32, 1545-1556	3.5	1
5	In vivo fluorescence lifetime imaging of macrophage intracellular metabolism during wound responses in zebrafish.. *ELife*, **2022**, 11,	8.9	1

List of Publications

4	Cell Type-Specific Transcriptome Profiling Reveals a Role for Thioredoxin During Tumor Initiation.. *Frontiers in Immunology*, **2022**, 13, 818893	8.4	0
3	Anomalous diffusion and asymmetric tempering memory in neutrophil chemotaxis.. *PLoS Computational Biology*, **2022**, 18, e1010089	5	0
2	Elucidating interactions between zebrafish innate immune system and cancer progression. *FASEB Journal*, **2018**, 32, 804.34	0.9	
1	Guide to the Larval Zebrafish-Aspergillus Infection Model. *Current Protocols*, **2021**, 1, e317		