Alissa M Weaver

List of Publications by Year
in descending order

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76 papers	11,012 citations	44069 48 h-index	76900 74 g-index
82 all docs	82 docs citations	82 times ranked	14045 citing authors

#	Article	IF	Citations
1	Extracellular Vesicles: Unique Intercellular Delivery Vehicles. Trends in Cell Biology, 2017, 27, 172-188.	7.9	1,087
2	Tumor Morphology and Phenotypic Evolution Driven by Selective Pressure from the Microenvironment. Cell, 2006, 127, 905-915.	28.9	714
3	Cortactin promotes and stabilizes Arp2/3-induced actin filament network formation. Current Biology, 2001, 11, 370-374.	3.9	540
4	Directional cell movement through tissues is controlled by exosome secretion. Nature Communications, 2015, 6, 7164.	12.8	457
5	Exosome Secretion Is Enhanced by Invadopodia and Drives Invasive Behavior. Cell Reports, 2013, 5, 1159-1168.	6.4	428
6	Cancer-associated fibroblasts promote directional cancer cell migration by aligning fibronectin. Journal of Cell Biology, 2017, 216, 3799-3816.	5.2	402
7	Cortactin Is an Essential Regulator of Matrix Metalloproteinase Secretion and Extracellular Matrix Degradation in Invadopodia. Cancer Research, 2007, 67, 4227-4235.	0.9	396
8	Cortactin Localization to Sites of Actin Assembly in Lamellipodia Requires Interactions with F-Actin and the Arp2/3 Complex. Journal of Cell Biology, 2000, 151, 29-40.	5.2	369
9	Invadopodia: Specialized Cell Structures for Cancer Invasion. Clinical and Experimental Metastasis, 2006, 23, 97-105.	3.3	369
10	3D Collagen Alignment Limits Protrusions to Enhance Breast Cancer Cell Persistence. Biophysical Journal, 2014, 107, 2546-2558.	0.5	346
11	KRAS-MEK Signaling Controls Ago2 Sorting into Exosomes. Cell Reports, 2016, 15, 978-987.	6.4	328
12	KRAS-dependent sorting of miRNA to exosomes. ELife, 2015, 4, e07197.	6.0	296
13	Extracellular Matrix Rigidity Promotes Invadopodia Activity. Current Biology, 2008, 18, 1295-1299.	3.9	285
14	Circular RNAs are down-regulated in KRAS mutant colon cancer cells and can be transferred to exosomes. Scientific Reports, 2016, 6, 37982.	3.3	268
15	Cortactin Promotes Cell Motility by Enhancing Lamellipodial Persistence. Current Biology, 2005, 15, 1276-1285.	3.9	248
16	Interaction of Cortactin and N-WASp with Arp2/3 Complex. Current Biology, 2002, 12, 1270-1278.	3.9	238
17	Cortactin promotes exosome secretion by controlling branched actin dynamics. Journal of Cell Biology, 2016, 214, 197-213.	5.2	226
18	Cortactin in tumor invasiveness. Cancer Letters, 2008, 265, 157-166.	7.2	193

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19	Proteogenomic insights into the biology and treatment of HPV-negative head and neck squamous cell carcinoma. Cancer Cell, 2021, 39, 361-379.e16.	16.8	189
20	N-WASP and the Arp2/3 Complex Are Critical Regulators of Actin in the Development of Dendritic Spines and Synapses. Journal of Biological Chemistry, 2008, 283, 15912-15920.	3.4	188
21	Updating the MISEV minimal requirements for extracellular vesicle studies: building bridges to reproducibility. Journal of Extracellular Vesicles, 2017, 6, 1396823.	12.2	185
22	Integration of signals to the Arp2/3 complex. Current Opinion in Cell Biology, 2003, 15, 23-30.	5.4	171
23	A live cell reporter of exosome secretion and uptake reveals pathfinding behavior of migrating cells. Nature Communications, 2020, 11, 2092.	12.8	162
24	Cortactin Interacts with WIP in Regulating Arp2/3 Activation and Membrane Protrusion. Current Biology, 2003, 13, 384-393.	3.9	159
25	Cortactin. Cell Adhesion and Migration, 2011, 5, 187-198.	2.7	152
26	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.	28.9	152
27	A new role for cortactin in invadopodia: Regulation of protease secretion. European Journal of Cell Biology, 2008, 87, 581-590.	3.6	145
28	Signaling inputs to invadopodia and podosomes. Journal of Cell Science, 2013, 126, 2979-89.	2.0	145
29	Adhesion rings surround invadopodia and promote maturation. Biology Open, 2012, 1, 711-722.	1.2	117
30	Sensing and Modulation of Invadopodia across a Wide Range of Rigidities. Biophysical Journal, 2011, 100, 573-582.	0.5	108
31	Diverse Long RNAs Are Differentially Sorted into Extracellular Vesicles Secreted by Colorectal Cancer Cells. Cell Reports, 2018, 25, 715-725.e4.	6.4	102
32	Exosome secretion promotes chemotaxis of cancer cells. Cell Adhesion and Migration, 2017, 11, 187-195.	2.7	96
33	EPHB2 carried on small extracellular vesicles induces tumor angiogenesis via activation of ephrin reverse signaling. JCI Insight, 2019, 4, .	5.0	88
34	CAS promotes invasiveness of Src-transformed cells. Oncogene, 2004, 23, 7406-7415.	5.9	85
35	Biogenesis, delivery, and function of extracellular RNA. Journal of Extracellular Vesicles, 2015, 4, 27494.	12.2	80
36	Cortactin Controls Cell Motility and Lamellipodial Dynamics by Regulating ECM Secretion. Current Biology, 2011, 21, 1460-1469.	3.9	79

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37	Regulation of cancer invasiveness by the physical extracellular matrix environment. Cell Adhesion and Migration, 2009, 3, 288-292.	2.7	74
38	Quantitative Proteomic Analysis of Small and Large Extracellular Vesicles (EVs) Reveals Enrichment of Adhesion Proteins in Small EVs. Journal of Proteome Research, 2019, 18, 947-959.	3.7	71
39	Network Analysis of the Focal Adhesion to Invadopodia Transition Identifies a PI3K-PKCÎ± Invasive Signaling Axis. Science Signaling, 2012, 5, ra66.	3.6	69
40	Dependence of Invadopodia Function on Collagen Fiber Spacing and Cross-Linking: Computational Modeling and Experimental Evidence. Biophysical Journal, 2008, 95, 2203-2218.	0.5	67
41	PI(3,5)P2 controls endosomal branched actin dynamics by regulating cortactinâ€“actin interactions. Journal of Cell Biology, 2015, 210, 753-769.	5.2	67
42	Establishment and Validation of Computational Model for MT1-MMP Dependent ECM Degradation and Intervention Strategies. PLoS Computational Biology, 2012, 8, e1002479.	3.2	66
43	A Three-Dimensional Computational Model of Collagen Network Mechanics. PLoS ONE, 2014, 9, e111896.	2.5	63
44	Extracellular vesicles: Critical players during cell migration. Developmental Cell, 2021, 56, 1861-1874.	7.0	62
45	Invadopodia. Current Biology, 2008, 18, R362-R364.	3.9	61
46	Regulation of invadopodia by mechanical signaling. Experimental Cell Research, 2016, 343, 89-95.	2.6	61
47	Microenvironmental Independence Associated with Tumor Progression. Cancer Research, 2009, 69, 8797-8806.	0.9	60
48	Extracellular vesicles: important collaborators in cancer progression. Essays in Biochemistry, 2018, 62, 149-163.	4.7	55
49	Astrocyte-derived small extracellular vesicles promote synapse formation via fibulin-2-mediated TGF-Î² signaling. Cell Reports, 2021, 34, 108829.	6.4	50
50	VAP-A and its binding partner CERT drive biogenesis of RNA-containing extracellular vesicles at ER membrane contact sites. Developmental Cell, 2022, 57, 974-994.e8.	7.0	49
51	Activating PIK3CA Mutations Induce an Epidermal Growth Factor Receptor (EGFR)/Extracellular Signal-regulated Kinase (ERK) Paracrine Signaling Axis in Basal-like Breast Cancer*. Molecular and Cellular Proteomics, 2015, 14, 1959-1976.	3.8	44
52	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. JCI Insight, 2018, 3, .	5.0	41
53	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement. Endocrine Reviews, 2022, 43, 441-468.	20.1	40
54	Proteolysis of EphA2 Converts It from a Tumor Suppressor to an Oncoprotein. Cancer Research, 2015, 75, 3327-3339.	0.9	39

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55	Regulation of late endosomal/lysosomal maturation and trafficking by cortactin affects Golgi morphology. Cytoskeleton, 2012, 69, 625-643.	2.0	38
56	Inhibition of Î±vÎ²3 integrin impairs adhesion and uptake of tumor-derived small extracellular vesicles. Cell Communication and Signaling, 2020, 18, 158.	6.5	38
57	Regulation of Cancer Invasion by Reactive Oxygen Species and Tks Family Scaffold Proteins. Science Signaling, 2009, 2, pe56.	3.6	31
58	Arrestins regulate cell spreading and motility via focal adhesion dynamics. Molecular Biology of the Cell, 2015, 26, 622-635.	2.1	30
59	Modeling heterogeneous tumor growth dynamics and cellâ€“cell interactions at single-cell and cell-population resolution. Current Opinion in Systems Biology, 2019, 17, 24-34.	2.6	30
60	Lamininâ€ƒ32â€“Î²1 integrin interactions negatively regulate invadopodia. Journal of Cellular Physiology, 2010, 223, 134-142.	4.1	26
61	Response of Head and Neck Squamous Cell Carcinoma Cells CarryingPIK3CAMutations to Selected Targeted Therapies. JAMA Otolaryngology - Head and Neck Surgery, 2015, 141, 543.	2.2	25
62	A Mathematical Model Quantifies Proliferation and Motility Effects of TGF-Î² on Cancer Cells. Computational and Mathematical Methods in Medicine, 2009, 10, 71-83.	1.3	22
63	Argonautes in Extracellular Vesicles: Artifact or Selected Cargo?. Cancer Research, 2020, 80, 379-381.	0.9	20
64	Laminin-111 peptide C16 regulates invadopodia activity of malignant cells through Î²1 integrin, Src and ERK 1/2. Oncotarget, 2016, 7, 47904-47917.	1.8	19
65	WAVE2 Regulates Epithelial Morphology and Cadherin Isoform Switching through Regulation of Twist and Abl. PLoS ONE, 2013, 8, e64533.	2.5	14
66	Î±5Î²1 integrin trafficking and Rac activation are regulated by APPL1 in a Rab5-dependent manner to inhibit cell migration. Journal of Cell Science, 2018, 131, .	2.0	14
67	Regulation of lysosomal secretion by cortactin drives fibronectin deposition and cell motility. Bioarchitecture, 2011, 1, 257-260.	1.5	12
68	Directed migration: Cells navigate by extracellular vesicles. Journal of Cell Biology, 2018, 217, 2613-2614.	5.2	12
69	Synthetic and Tissue-Derived Models for Studying Rigidity Effects on Invadopodia Activity. Methods in Molecular Biology, 2013, 1046, 171-189.	0.9	10
70	Linking patient outcome to high throughput protein expression data identifies novel regulators of colorectal adenocarcinoma aggressiveness. F1000Research, 2015, 4, 99.	1.6	9
71	Cellâ€“Cell Fusion: A New Function for Invadosomes. Current Biology, 2011, 21, R121-R123.	3.9	7
72	Depletion of METTL3 alters cellular and extracellular levels of miRNAs containing m6A consensus sequences. Heliyon, 2021, 7, e08519.	3.2	7

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73	Sunitinib and Axitinib increase secretion and glycolytic activity of small extracellular vesicles in renal cell carcinoma. Cancer Gene Therapy, 2022, 29, 683-696.	4.6	4
74	Announcing the ISEV2020 special achievement award recipients: Andrew Hill and Edit BuzÃ¡s; and the recipient of the ISEV2020 special education award: Carolina Soekmadji. Journal of Extracellular Vesicles, 2020, 10, e12021.	12.2	0
75	Extracellular Matrix Degradation by Invadopodia. FASEB Journal, 2007, 21, A91.	0.5	0
76	PI(3,5)P₂controls endosomal branched actin dynamics by regulating cortactinâ€“actin interactions. Journal of General Physiology, 2015, 146, 1463OIA50.	1.9	0