David R Sherwood

List of Publications by Citations

66 papers	2,306 citations	29 h-index	47 g-index
123 ext. papers	2,968 ext. citations	8.3 avg, IF	5.42 L-index

#	Paper	IF	Citations
66	FOS-1 promotes basement-membrane removal during anchor-cell invasion in C. elegans. *Cell*, **2005**, 121, 951-62	56.2	148
65	Basement membranes. *Current Biology*, **2017**, 27, R207-R211	6.3	132
64	Traversing the basement membrane in vivo: a diversity of strategies. *Journal of Cell Biology*, **2014**, 204, 291-302	7.3	128
63	Anchor cell invasion into the vulval epithelium in C. elegans. *Developmental Cell*, **2003**, 5, 21-31	10.2	106
62	UNC-6 (netrin) orients the invasive membrane of the anchor cell in C. elegans. *Nature Cell Biology*, **2009**, 11, 183-9	23.4	105
61	Integrin acts upstream of netrin signaling to regulate formation of the anchor cell's invasive membrane in C. elegans. *Developmental Cell*, **2009**, 17, 187-98	10.2	89
60	The netrin receptor DCC focuses invadopodia-driven basement membrane transmigration in vivo. *Journal of Cell Biology*, **2013**, 201, 903-13	7.3	87
59	Basement membrane sliding and targeted adhesion remodels tissue boundaries during uterine-vulval attachment in Caenorhabditis elegans. *Nature Cell Biology*, **2011**, 13, 641-51	23.4	80
58	Invasive Cell Fate Requires G1 Cell-Cycle Arrest and Histone Deacetylase-Mediated Changes in Gene Expression. *Developmental Cell*, **2015**, 35, 162-74	10.2	78
57	Repurposing an endogenous degradation system for rapid and targeted depletion of C. elegans proteins. *Development (Cambridge)*, **2014**, 141, 4640-7	6.6	73
56	An active role for basement membrane assembly and modification in tissue sculpting. *Journal of Cell Science*, **2015**, 128, 1661-8	5.3	69
55	Cell invasion through basement membrane: the anchor cell breaches the barrier. *Current Opinion in Cell Biology*, **2011**, 23, 589-96	9	65
54	Adaptive F-Actin Polymerization and Localized ATP Production Drive Basement Membrane Invasion in the Absence of MMPs. *Developmental Cell*, **2019**, 48, 313-328.e8	10.2	58
53	Identification of late larval stage developmental checkpoints in Caenorhabditis elegans regulated by insulin/IGF and steroid hormone signaling pathways. *PLoS Genetics*, **2014**, 10, e1004426	6	55
52	In vivo identification of regulators of cell invasion across basement membranes. *Science Signaling*, **2010**, 3, ra35	8.8	53
51	Gene expression markers for Caenorhabditis elegans vulval cells. *Mechanisms of Development*, **2002** , 119 Suppl 1, S203-9	1.7	52
50	Cell invasion through basement membranes: an anchor of understanding. *Trends in Cell Biology*, **2006**, 16, 250-6	18.3	50

49	RAB-10-Dependent Membrane Transport Is Required for Dendrite Arborization. *PLoS Genetics*, **2015**, 11, e1005484	6	48
48	Invadopodia and basement membrane invasion in vivo. *Cell Adhesion and Migration*, **2014**, 8, 246-55	3.2	48
47	SPARC Promotes Cell Invasion In Vivo by Decreasing Type IV Collagen Levels in the Basement Membrane. *PLoS Genetics*, **2016**, 12, e1005905	6	48
46	B-LINK: a hemicentin, plakin, and integrin-dependent adhesion system that links tissues by connecting adjacent basement membranes. *Developmental Cell*, **2014**, 31, 319-331	10.2	43
45	Cell Invasion In Vivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. *Developmental Cell*, **2017**, 43, 403-417.e10	10.2	41
44	Caenorhabditis elegans cog-1 locus encodes GTX/Nkx6.1 homeodomain proteins and regulates multiple aspects of reproductive system development. *Developmental Biology*, **2002**, 252, 202-13	3.1	36
43	ADF/cofilin promotes invadopodial membrane recycling during cell invasion in vivo. *Journal of Cell Biology*, **2014**, 204, 1209-18	7.3	35
42	Morphogenesis of the caenorhabditis elegans vulva. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2013**, 2, 75-95	5.9	35
41	UNC-6 (netrin) stabilizes oscillatory clustering of the UNC-40 (DCC) receptor to orient polarity. *Journal of Cell Biology*, **2014**, 206, 619-33	7.3	33
40	The unfolded protein response is required for dendrite morphogenesis. *ELife*, **2015**, 4, e06963	8.9	32
39	Comprehensive Endogenous Tagging of Basement Membrane Components Reveals Dynamic Movement within the Matrix Scaffolding. *Developmental Cell*, **2020**, 54, 60-74.e7	10.2	31
38	A Sensitized Screen for Genes Promoting Invadopodia Function In Vivo: CDC-42 and Rab GDI-1 Direct Distinct Aspects of Invadopodia Formation. *PLoS Genetics*, **2016**, 12, e1005786	6	30
37	Cell division and targeted cell cycle arrest opens and stabilizes basement membrane gaps. *Nature Communications*, **2014**, 5, 4184	17.4	29
36	Invading, Leading and Navigating Cells in : Insights into Cell Movement. *Genetics*, **2018**, 208, 53-78	4	23
35	Swimming Exercise and Transient Food Deprivation in Caenorhabditis elegans Promote Mitochondrial Maintenance and Protect Against Chemical-Induced Mitotoxicity. *Scientific Reports*, **2018**, 8, 8359	4.9	22
34	Integrins dictate distinct modes of type IV collagen recruitment to basement membranes. *Journal of Cell Biology*, **2019**, 218, 3098-3116	7.3	21
33	In situ imaging in C. elegans reveals developmental regulation of microtubule dynamics. *Developmental Cell*, **2014**, 29, 203-16	10.2	21
32	The transcription factor HLH-2/E/Daughterless regulates anchor cell invasion across basement membrane in C. elegans. *Developmental Biology*, **2011**, 357, 380-91	3.1	21

31	Roles for netrin signaling outside of axon guidance: a view from the worm. *Developmental Dynamics* , **2010**, 239, 1296-305	2.9	21
30	Dissection of genetic pathways in C. elegans. *Methods in Cell Biology*, **2011**, 106, 113-57	1.8	20
29	A new front in cell invasion: The invadopodial membrane. *European Journal of Cell Biology*, **2016**, 95, 441-448	6.6	20
28	Forces drive basement membrane invasion in. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11537-11542	11.5	18
27	Basement Membranes in the Worm: A Dynamic Scaffolding that Instructs Cellular Behaviors and Shapes Tissues. *Current Topics in Membranes*, **2015**, 76, 337-71	2.2	17
26	MIG-10 (lamellipodin) has netrin-independent functions and is a FOS-1A transcriptional target during anchor cell invasion in C. elegans. *Development (Cambridge)*, **2014**, 141, 1342-53	6.6	17
25	Live-cell confocal microscopy and quantitative 4D image analysis of anchor-cell invasion through the basement membrane in Caenorhabditis elegans. *Nature Protocols*, **2017**, 12, 2081-2096	18.8	16
24	Cell invasion through basement membrane: The netrin receptor DCC guides the way. *Worm*, **2013**, 2, e26169		16
23	Nonselective autophagy reduces mitochondrial content during starvation in Caenorhabditis elegans. *American Journal of Physiology - Cell Physiology*, **2018**, 315, C781-C792	5.4	14
22	Identification of regulators of germ stem cell enwrapment by its niche in C. elegans. *Developmental Biology*, **2017**, 429, 271-284	3.1	13
21	A developmental biologist's "outside-the-cell" thinking. *Journal of Cell Biology*, **2015**, 210, 369-72	7.3	12
20	Tissue linkage through adjoining basement membranes: The long and the short term of it. *Matrix Biology*, **2019**, 75-76, 58-71	11.4	12
19	An expression screen for RhoGEF genes involved in C. elegans gonadogenesis. *Gene Expression Patterns*, **2009**, 9, 397-403	1.5	12
18	MANF deletion abrogates early larval Caenorhabditis elegans stress response to tunicamycin and Pseudomonas aeruginosa. *European Journal of Cell Biology*, **2019**, 98, 151043	6.1	11
17	Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. *Current Biology*, **2019**, 29, 823-833.e5	6.3	8
16	MIG-10 (Lamellipodin) stabilizes invading cell adhesion to basement membrane and is a negative transcriptional target of EGL-43 in C. elegans. *Biochemical and Biophysical Research Communications* , **2014**, 452, 328-33	3.4	8
15	Boundary cells restrict dystroglycan trafficking to control basement membrane sliding during tissue remodeling. *ELife*, **2016**, 5,	8.9	7
14	Stem cell niche exit in via orientation and segregation of daughter cells by a cryptic cell outside the niche. *ELife*, **2020**, 9,	8.9	7

List of Publications

13	Fueling Cell Invasion through Extracellular Matrix. *Trends in Cell Biology*, **2021**, 31, 445-456	18.3	6
12	Mammalian hemicentin 1 is assembled into tracks in the extracellular matrix of multiple tissues. *Developmental Dynamics*, **2020**, 249, 775-788	2.9	5
11	A basement membrane discovery pipeline uncovers network complexity, regulators, and human disease associations.. *Science Advances*, **2022**, 8, eabn2265	14.3	4
10	Should I stay or should I go? Identification of novel nutritionally regulated developmental checkpoints in C. elegans. *Worm*, **2014**, 3, e979658		3
9	Basement membrane remodeling guides cell migration and cell morphogenesis during development. *Current Opinion in Cell Biology*, **2021**, 72, 19-27	9	3
8	Localized glucose import, glycolytic processing, and mitochondria generate a focused ATP burst to power basement-membrane invasion.. *Developmental Cell*, **2022**, 57, 732-749.e7	10.2	3
7	Tissue Sculpting by Fibrils. *Developmental Cell*, **2016**, 38, 1-3	10.2	2
6	Morphogenesis: Shaping Tissues through Extracellular Force Gradients. *Current Biology*, **2017**, 27, R850-R852	6.9	2
5	Endogenous expression of UNC-59/Septin in. *MicroPublication Biology*, **2019**, 2019,	0.8	1
4	A basement membrane discovery pipeline uncovers network complexity, new regulators, and human disease associations		1
3	A Scalable CURE Using a CRISPR/Cas9 Fluorescent Protein Knock-In Strategy in. *Journal of Microbiology and Biology Education*, **2019**, 20,	1.3	1
2	Breaching and Opening Basement Membrane Barriers: The Anchor Cell Leads the Way. *Biology of Extracellular Matrix*, **2017**, 91-115	0.6	
1	Visualizing cytoplasmic ATP in C. elegans larvae using PercevalHR. *STAR Protocols*, **2022**, 3, 101429	1.4	