David R Sherwood

List of Publications by Year
in descending order

65 papers	3,490 citations	147726 31 h-index	168321 53 g-index
123 all docs	123 docs citations	123 times ranked	3255 citing authors

#	Article	IF	Citations
1	Basement membranes. Current Biology, 2017, 27, R207-R211.	1.8	223
2	FOS-1 Promotes Basement-Membrane Removal during Anchor-Cell Invasion in C. elegans. Cell, 2005, 121, 951-962.	13.5	178
3	Traversing the basement membrane in vivo: A diversity of strategies. Journal of Cell Biology, 2014, 204, 291-302.	2.3	157
4	Anchor Cell Invasion into the Vulval Epithelium in C. elegans. Developmental Cell, 2003, 5, 21-31.	3.1	144
5	UNC-6 (netrin) orients the invasive membrane of the anchor cell in C. elegans. Nature Cell Biology, 2009, 11, 183-189.	4.6	128
6	Repurposing an endogenous degradation system for rapid and targeted depletion ofC. elegansproteins. Development (Cambridge), 2014, 141, 4640-4647.	1.2	122
7	Invasive Cell Fate Requires G1 Cell-Cycle Arrest and Histone Deacetylase-Mediated Changes in Gene Expression. Developmental Cell, 2015, 35, 162-174.	3.1	120
8	An active role for basement membrane assembly and modification in tissue sculpting. Journal of Cell Science, 2015, 128, 1661-8.	1.2	117
9	Integrin Acts Upstream of Netrin Signaling to Regulate Formation of the Anchor Cell's Invasive Membrane in C. elegans. Developmental Cell, 2009, 17, 187-198.	3.1	113
10	Adaptive F-Actin Polymerization and Localized ATP Production Drive Basement Membrane Invasion in the Absence of MMPs. Developmental Cell, 2019, 48, 313-328.e8.	3.1	110
11	Basement membrane sliding and targeted adhesion remodels tissue boundaries during uterineâ€“vulval attachment in Caenorhabditis elegans. Nature Cell Biology, 2011, 13, 641-651.	4.6	109
12	The netrin receptor DCC focuses invadopodia-driven basement membrane transmigration in vivo. Journal of Cell Biology, 2013, 201, 903-913.	2.3	109
13	Comprehensive Endogenous Tagging of Basement Membrane Components Reveals Dynamic Movement within the Matrix Scaffolding. Developmental Cell, 2020, 54, 60-74.e7.	3.1	95
14	Identification of Late Larval Stage Developmental Checkpoints in Caenorhabditis elegans Regulated by Insulin/IGF and Steroid Hormone Signaling Pathways. PLoS Genetics, 2014, 10, e1004426.	1.5	76
15	A basement membrane discovery pipeline uncovers network complexity, regulators, and human disease associations. Science Advances, 2022, 8, eabn2265.	4.7	76
16	In Vivo Identification of Regulators of Cell Invasion Across Basement Membranes. Science Signaling, 2010, 3, ra35.	1.6	75
17	Cell invasion through basement membrane: the anchor cell breaches the barrier. Current Opinion in Cell Biology, 2011, 23, 589-596.	2.6	74
18	RAB-10-Dependent Membrane Transport Is Required for Dendrite Arborization. PLoS Genetics, 2015, 11, e1005484.	1.5	74

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19	Cell Invasion InÂVivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. Developmental Cell, 2017, 43, 403-417.e10.	3.1	67
20	B-LINK: A Hemicentin, Plakin, and Integrin-Dependent Adhesion System that Links Tissues by Connecting Adjacent Basement Membranes. Developmental Cell, 2014, 31, 319-331.	3.1	65
21	Gene expression markers for Caenorhabditis elegans vulval cells. Mechanisms of Development, 2002, 119, S203-S209.	1.7	64
22	SPARC Promotes Cell Invasion In Vivo by Decreasing Type IV Collagen Levels in the Basement Membrane. PLoS Genetics, 2016, 12, e1005905.	1.5	63
23	Invadopodia and basement membrane invasion in vivo. Cell Adhesion and Migration, 2014, 8, 246-255.	1.1	61
24	Cell invasion through basement membranes: an anchor of understanding. Trends in Cell Biology, 2006, 16, 250-256.	3.6	59
25	Morphogenesis of the Caenorhabditis elegans vulva. Wiley Interdisciplinary Reviews: Developmental Biology, 2013, 2, 75-95.	5.9	51
26	Î±-Integrins dictate distinct modes of type IV collagen recruitment to basement membranes. Journal of Cell Biology, 2019, 218, 3098-3116.	2.3	49
27	Caenorhabditis elegans cog-1 Locus Encodes GTX/Nkx6.1 Homeodomain Proteins and Regulates Multiple Aspects of Reproductive System Development. Developmental Biology, 2002, 252, 202-213.	0.9	48
28	Invading, Leading and Navigating Cells in Caenorhabditis elegans: Insights into Cell Movement in Vivo. Genetics, 2018, 208, 53-78.	1.2	48
29	UNC-6 (netrin) stabilizes oscillatory clustering of the UNC-40 (DCC) receptor to orient polarity. Journal of Cell Biology, 2014, 206, 619-633.	2.3	45
30	The unfolded protein response is required for dendrite morphogenesis. ELife, 2015, 4, e06963.	2.8	42
31	ADF/cofilin promotes invadopodial membrane recycling during cell invasion in vivo. Journal of Cell Biology, 2014, 204, 1209-1218.	2.3	41
32	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.	1.5	41
33	Swimming Exercise and Transient Food Deprivation in Caenorhabditis elegans Promote Mitochondrial Maintenance and Protect Against Chemical-Induced Mitotoxicity. Scientific Reports, 2018, 8, 8359.	1.6	38
34	Cell division and targeted cell cycle arrest opens and stabilizes basement membrane gaps. Nature Communications, 2014, 5, 4184.	5.8	36
35	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.	5.5	35
36	In Situ Imaging in C.Âelegans Reveals Developmental Regulation of Microtubule Dynamics. Developmental Cell, 2014, 29, 203-216.	3.1	34

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37	Basement membrane remodeling guides cell migration and cell morphogenesis during development. Current Opinion in Cell Biology, 2021, 72, 19-27.	2.6	31
38	The transcription factor HLH-2/E/Daughterless regulates anchor cell invasion across basement membrane in C. elegans. Developmental Biology, 2011, 357, 380-391.	0.9	29
39	Fueling Cell Invasion through Extracellular Matrix. Trends in Cell Biology, 2021, 31, 445-456.	3.6	29
40	Dissection of Genetic Pathways in C. elegans. Methods in Cell Biology, 2011, 106, 113-157.	0.5	27
41	Basement Membranes in the Worm. Current Topics in Membranes, 2015, 76, 337-371.	0.5	27
42	A new front in cell invasion: The invadopodial membrane. European Journal of Cell Biology, 2016, 95, 441-448.	1.6	27
43	Forces drive basement membrane invasion in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11537-11542.	3.3	27
44	Stem cell niche exit in C. elegans via orientation and segregation of daughter cells by a cryptic cell outside the niche. ELife, 2020, 9, .	2.8	26
45	Roles for netrin signaling outside of axon guidance: A view from the worm. Developmental Dynamics, 2010, 239, 1296-1305.	0.8	25
46	Identification of regulators of germ stem cell enwrapment by its niche in C. elegans. Developmental Biology, 2017, 429, 271-284.	0.9	23
47	Nonselective autophagy reduces mitochondrial content during starvation in Caenorhabditis elegans. American Journal of Physiology - Cell Physiology, 2018, 315, C781-C792.	2.1	22
48	Tissue linkage through adjoining basement membranes: The long and the short term of it. Matrix Biology, 2019, 75-76, 58-71.	1.5	22
49	Localized glucose import, glycolytic processing, and mitochondria generate a focused ATP burst to power basement-membrane invasion. Developmental Cell, 2022, 57, 732-749.e7.	3.1	22
50	Cell invasion through basement membrane. Worm, 2013, 2, e26169.	1.0	21
51	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, 1342-1353.	1.2	21
52	MANF deletion abrogates early larval Caenorhabditis elegans stress response to tunicamycin and Pseudomonas aeruginosa. European Journal of Cell Biology, 2019, 98, 151043.	1.6	18
53	Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. Current Biology, 2019, 29, 823-833.e5.	1.8	16
54	An expression screen for RhoGEF genes involved in C. elegans gonadogenesis. Gene Expression Patterns, 2009, 9, 397-403.	0.3	15

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55	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, 328-333.	1.0	13
56	A developmental biologistâ€™s â€œoutside-the-cellâ€•thinking. Journal of Cell Biology, 2015, 210, 369-372.	2.3	13
57	Mammalian hemicentin 1 is assembled into tracks in the extracellular matrix of multiple tissues. Developmental Dynamics, 2020, 249, 775-788.	0.8	12
58	Boundary cells restrict dystroglycan trafficking to control basement membrane sliding during tissue remodeling. ELife, 2016, 5, .	2.8	12
59	A Scalable CURE Using a CRISPR/Cas9 Fluorescent Protein Knock-In Strategy in Caenorhabditis elegans. Journal of Microbiology and Biology Education, 2019, 20, 70.	0.5	8
60	Should I stay or should I go? Identification of novel nutritionally regulated developmental checkpoints inC. elegans. Worm, 2014, 3, e979658.	1.0	5
61	Tissue Sculpting by Fibrils. Developmental Cell, 2016, 38, 1-3.	3.1	4
62	Morphogenesis: Shaping Tissues through Extracellular Force Gradients. Current Biology, 2017, 27, R850-R852.	1.8	3
63	Endogenous expression of UNC-59/Septin in. MicroPublication Biology, 2019, 2019, .	0.1	1
64	Visualizing cytoplasmic ATP in C.Âelegans larvae using PercevalHR. STAR Protocols, 2022, 3, 101429.	0.5	1
65	Breaching and Opening Basement Membrane Barriers: The Anchor Cell Leads the Way. Biology of Extracellular Matrix, 2017, , 91-115.	0.3	0