

# David R Sherwood

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

3,490  
citations

147801

31  
h-index

168389

53  
g-index

123  
all docs

123  
docs citations

123  
times ranked

3255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Basement membranes. <i>Current Biology</i> , 2017, 27, R207-R211.	3.9	223
2	FOS-1 Promotes Basement-Membrane Removal during Anchor-Cell Invasion in <i>C. elegans</i> . <i>Cell</i> , 2005, 121, 951-962.	28.9	178
3	Traversing the basement membrane in vivo: A diversity of strategies. <i>Journal of Cell Biology</i> , 2014, 204, 291-302.	5.2	157
4	Anchor Cell Invasion into the Vulval Epithelium in <i>C. elegans</i> . <i>Developmental Cell</i> , 2003, 5, 21-31.	7.0	144
5	UNC-6 (netrin) orients the invasive membrane of the anchor cell in <i>C. elegans</i> . <i>Nature Cell Biology</i> , 2009, 11, 183-189.	10.3	128
6	Repurposing an endogenous degradation system for rapid and targeted depletion of <i>C. elegans</i> proteins. <i>Development (Cambridge)</i> , 2014, 141, 4640-4647.	2.5	122
7	Invasive Cell Fate Requires G1 Cell-Cycle Arrest and Histone Deacetylase-Mediated Changes in Gene Expression. <i>Developmental Cell</i> , 2015, 35, 162-174.	7.0	120
8	An active role for basement membrane assembly and modification in tissue sculpting. <i>Journal of Cell Science</i> , 2015, 128, 1661-8.	2.0	117
9	Integrin Acts Upstream of Netrin Signaling to Regulate Formation of the Anchor Cell's Invasive Membrane in <i>C. elegans</i> . <i>Developmental Cell</i> , 2009, 17, 187-198.	7.0	113
10	Adaptive F-Actin Polymerization and Localized ATP Production Drive Basement Membrane Invasion in the Absence of MMPs. <i>Developmental Cell</i> , 2019, 48, 313-328.e8.	7.0	110
11	Basement membrane sliding and targeted adhesion remodels tissue boundaries during uterine vulval attachment in <i>Caenorhabditis elegans</i> . <i>Nature Cell Biology</i> , 2011, 13, 641-651.	10.3	109
12	The netrin receptor DCC focuses invadopodia-driven basement membrane transmigration in vivo. <i>Journal of Cell Biology</i> , 2013, 201, 903-913.	5.2	109
13	Comprehensive Endogenous Tagging of Basement Membrane Components Reveals Dynamic Movement within the Matrix Scaffolding. <i>Developmental Cell</i> , 2020, 54, 60-74.e7.	7.0	95
14	Identification of Late Larval Stage Developmental Checkpoints in <i>Caenorhabditis elegans</i> Regulated by Insulin/IGF and Steroid Hormone Signaling Pathways. <i>PLoS Genetics</i> , 2014, 10, e1004426.	3.5	76
15	A basement membrane discovery pipeline uncovers network complexity, regulators, and human disease associations. <i>Science Advances</i> , 2022, 8, eabn2265.	10.3	76
16	In Vivo Identification of Regulators of Cell Invasion Across Basement Membranes. <i>Science Signaling</i> , 2010, 3, ra35.	3.6	75
17	Cell invasion through basement membrane: the anchor cell breaches the barrier. <i>Current Opinion in Cell Biology</i> , 2011, 23, 589-596.	5.4	74
18	RAB-10-Dependent Membrane Transport Is Required for Dendrite Arborization. <i>PLoS Genetics</i> , 2015, 11, e1005484.	3.5	74

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19	Cell Invasion In Vivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. <i>Developmental Cell</i> , 2017, 43, 403-417.e10.	7.0	67
20	B-LINK: A Hemicentin, Plakin, and Integrin-Dependent Adhesion System that Links Tissues by Connecting Adjacent Basement Membranes. <i>Developmental Cell</i> , 2014, 31, 319-331.	7.0	65
21	Gene expression markers for <i>Caenorhabditis elegans</i> vulval cells. <i>Mechanisms of Development</i> , 2002, 119, S203-S209.	1.7	64
22	SPARC Promotes Cell Invasion In Vivo by Decreasing Type IV Collagen Levels in the Basement Membrane. <i>PLoS Genetics</i> , 2016, 12, e1005905.	3.5	63
23	Invadopodia and basement membrane invasion in vivo. <i>Cell Adhesion and Migration</i> , 2014, 8, 246-255.	2.7	61
24	Cell invasion through basement membranes: an anchor of understanding. <i>Trends in Cell Biology</i> , 2006, 16, 250-256.	7.9	59
25	Morphogenesis of the <i>Caenorhabditis elegans</i> vulva. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 75-95.	5.9	51
26	$\beta$ -Integrins dictate distinct modes of type IV collagen recruitment to basement membranes. <i>Journal of Cell Biology</i> , 2019, 218, 3098-3116.	5.2	49
27	<i>Caenorhabditis elegans</i> cog-1 Locus Encodes GTX/Nkx6.1 Homeodomain Proteins and Regulates Multiple Aspects of Reproductive System Development. <i>Developmental Biology</i> , 2002, 252, 202-213.	2.0	48
28	Invading, Leading and Navigating Cells in <i>Caenorhabditis elegans</i> : Insights into Cell Movement in Vivo. <i>Genetics</i> , 2018, 208, 53-78.	2.9	48
29	UNC-6 (netrin) stabilizes oscillatory clustering of the UNC-40 (DCC) receptor to orient polarity. <i>Journal of Cell Biology</i> , 2014, 206, 619-633.	5.2	45
30	The unfolded protein response is required for dendrite morphogenesis. <i>ELife</i> , 2015, 4, e06963.	6.0	42
31	ADF/cofilin promotes invadopodial membrane recycling during cell invasion in vivo. <i>Journal of Cell Biology</i> , 2014, 204, 1209-1218.	5.2	41
32	A Sensitized Screen for Genes Promoting Invadopodia Function In Vivo: CDC-42 and Rab GDI-1 Direct Distinct Aspects of Invadopodia Formation. <i>PLoS Genetics</i> , 2016, 12, e1005786.	3.5	41
33	Swimming Exercise and Transient Food Deprivation in <i>Caenorhabditis elegans</i> Promote Mitochondrial Maintenance and Protect Against Chemical-Induced Mitotoxicity. <i>Scientific Reports</i> , 2018, 8, 8359.	3.3	38
34	Cell division and targeted cell cycle arrest opens and stabilizes basement membrane gaps. <i>Nature Communications</i> , 2014, 5, 4184.	12.8	36
35	Live-cell confocal microscopy and quantitative 4D image analysis of anchor-cell invasion through the basement membrane in <i>Caenorhabditis elegans</i> . <i>Nature Protocols</i> , 2017, 12, 2081-2096.	12.0	35
36	In Situ Imaging in <i>C. elegans</i> Reveals Developmental Regulation of Microtubule Dynamics. <i>Developmental Cell</i> , 2014, 29, 203-216.	7.0	34

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37	Basement membrane remodeling guides cell migration and cell morphogenesis during development. <i>Current Opinion in Cell Biology</i> , 2021, 72, 19-27.	5.4	31
38	The transcription factor HLH-2/E/Daughterless regulates anchor cell invasion across basement membrane in <i>C. elegans</i> . <i>Developmental Biology</i> , 2011, 357, 380-391.	2.0	29
39	Fueling Cell Invasion through Extracellular Matrix. <i>Trends in Cell Biology</i> , 2021, 31, 445-456.	7.9	29
40	Dissection of Genetic Pathways in <i>C. elegans</i> . <i>Methods in Cell Biology</i> , 2011, 106, 113-157.	1.1	27
41	Basement Membranes in the Worm. <i>Current Topics in Membranes</i> , 2015, 76, 337-371.	0.9	27
42	A new front in cell invasion: The invadopodial membrane. <i>European Journal of Cell Biology</i> , 2016, 95, 441-448.	3.6	27
43	Forces drive basement membrane invasion in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11537-11542.	7.1	27
44	Stem cell niche exit in <i>C. elegans</i> via orientation and segregation of daughter cells by a cryptic cell outside the niche. <i>ELife</i> , 2020, 9, .	6.0	26
45	Roles for netrin signaling outside of axon guidance: A view from the worm. <i>Developmental Dynamics</i> , 2010, 239, 1296-1305.	1.8	25
46	Identification of regulators of germ stem cell enwrapment by its niche in <i>C. elegans</i> . <i>Developmental Biology</i> , 2017, 429, 271-284.	2.0	23
47	Nonselective autophagy reduces mitochondrial content during starvation in <i>Caenorhabditis elegans</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C781-C792.	4.6	22
48	Tissue linkage through adjoining basement membranes: The long and the short term of it. <i>Matrix Biology</i> , 2019, 75-76, 58-71.	3.6	22
49	Localized glucose import, glycolytic processing, and mitochondria generate a focused ATP burst to power basement-membrane invasion. <i>Developmental Cell</i> , 2022, 57, 732-749.e7.	7.0	22
50	Cell invasion through basement membrane. <i>Worm</i> , 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 <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2014, 141, 1342-1353.	2.5	21
52	MANF deletion abrogates early larval <i>Caenorhabditis elegans</i> stress response to tunicamycin and <i>Pseudomonas aeruginosa</i> . <i>European Journal of Cell Biology</i> , 2019, 98, 151043.	3.6	18
53	Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. <i>Current Biology</i> , 2019, 29, 823-833.e5.	3.9	16
54	An expression screen for RhoGEF genes involved in <i>C. elegans</i> gonadogenesis. <i>Gene Expression Patterns</i> , 2009, 9, 397-403.	0.8	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 <i>C. elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 328-333.	2.1	13
56	A developmental biologist's "outside-the-cell" thinking. <i>Journal of Cell Biology</i> , 2015, 210, 369-372.	5.2	13
57	Mammalian hemicentin 1 is assembled into tracks in the extracellular matrix of multiple tissues. <i>Developmental Dynamics</i> , 2020, 249, 775-788.	1.8	12
58	Boundary cells restrict dystroglycan trafficking to control basement membrane sliding during tissue remodeling. <i>ELife</i> , 2016, 5, .	6.0	12
59	A Scalable CURE Using a CRISPR/Cas9 Fluorescent Protein Knock-In Strategy in <i>Caenorhabditis elegans</i> . <i>Journal of Microbiology and Biology Education</i> , 2019, 20, 70.	1.0	8
60	Should I stay or should I go? Identification of novel nutritionally regulated developmental checkpoints in <i>C. elegans</i> . <i>Worm</i> , 2014, 3, e979658.	1.0	5
61	Tissue Sculpting by Fibrils. <i>Developmental Cell</i> , 2016, 38, 1-3.	7.0	4
62	Morphogenesis: Shaping Tissues through Extracellular Force Gradients. <i>Current Biology</i> , 2017, 27, R850-R852.	3.9	3
63	Endogenous expression of UNC-59/Septin in. <i>MicroPublication Biology</i> , 2019, 2019, .	0.1	1
64	Visualizing cytoplasmic ATP in <i>C. elegans</i> larvae using PercevalHR. <i>STAR Protocols</i> , 2022, 3, 101429.	1.2	1
65	Breaching and Opening Basement Membrane Barriers: The Anchor Cell Leads the Way. <i>Biology of Extracellular Matrix</i> , 2017, , 91-115.	0.3	0