

David R Sherwood

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 | 10.2 | 3 |
| 65 | A basement membrane discovery pipeline uncovers network complexity, regulators, and human disease associations.. <i>Science Advances</i> , 2022 , 8, eabn2265 | 14.3 | 4 |
| 64 | Visualizing cytoplasmic ATP in <i>C. elegans</i> larvae using PercevalHR. <i>STAR Protocols</i> , 2022 , 3, 101429 | 1.4 | |
| 63 | Fueling Cell Invasion through Extracellular Matrix. <i>Trends in Cell Biology</i> , 2021 , 31, 445-456 | 18.3 | 6 |
| 62 | Basement membrane remodeling guides cell migration and cell morphogenesis during development. <i>Current Opinion in Cell Biology</i> , 2021 , 72, 19-27 | 9 | 3 |
| 61 | Comprehensive Endogenous Tagging of Basement Membrane Components Reveals Dynamic Movement within the Matrix Scaffolding. <i>Developmental Cell</i> , 2020 , 54, 60-74.e7 | 10.2 | 31 |
| 60 | Mammalian hemicentin 1 is assembled into tracks in the extracellular matrix of multiple tissues. <i>Developmental Dynamics</i> , 2020 , 249, 775-788 | 2.9 | 5 |
| 59 | Stem cell niche exit in via orientation and segregation of daughter cells by a cryptic cell outside the niche. <i>ELife</i> , 2020 , 9, | 8.9 | 7 |
| 58 | 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 | 10.2 | 58 |
| 57 | 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 | 6.1 | 11 |
| 56 | Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. <i>Current Biology</i> , 2019 , 29, 823-833.e5 | 6.3 | 8 |
| 55 | Tissue linkage through adjoining basement membranes: The long and the short term of it. <i>Matrix Biology</i> , 2019 , 75-76, 58-71 | 11.4 | 12 |
| 54 | Integrins dictate distinct modes of type IV collagen recruitment to basement membranes. <i>Journal of Cell Biology</i> , 2019 , 218, 3098-3116 | 7.3 | 21 |
| 53 | Endogenous expression of UNC-59/Septin in. <i>MicroPublication Biology</i> , 2019 , 2019, | 0.8 | 1 |
| 52 | A Scalable CURE Using a CRISPR/Cas9 Fluorescent Protein Knock-In Strategy in. <i>Journal of Microbiology and Biology Education</i> , 2019 , 20, | 1.3 | 1 |
| 51 | Invading, Leading and Navigating Cells in : Insights into Cell Movement. <i>Genetics</i> , 2018 , 208, 53-78 | 4 | 23 |
| 50 | Nonselective autophagy reduces mitochondrial content during starvation in <i>Caenorhabditis elegans</i> . <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C781-C792 | 5.4 | 14 |

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| 49 | Forces drive basement membrane invasion in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11537-11542 | 11.5 | 18 |
| 48 | 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 | 4.9 | 22 |
| 47 | Basement membranes. <i>Current Biology</i> , 2017 , 27, R207-R211 | 6.3 | 132 |
| 46 | Morphogenesis: Shaping Tissues through Extracellular Force Gradients. <i>Current Biology</i> , 2017 , 27, R850-R852 | 6.5 | 2 |
| 45 | 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 | 18.8 | 16 |
| 44 | Breaching and Opening Basement Membrane Barriers: The Anchor Cell Leads the Way. <i>Biology of Extracellular Matrix</i> , 2017 , 91-115 | 0.6 | |
| 43 | Cell Invasion In Vivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. <i>Developmental Cell</i> , 2017 , 43, 403-417.e10 | 10.2 | 41 |
| 42 | Identification of regulators of germ stem cell enwrapment by its niche in <i>C. elegans</i> . <i>Developmental Biology</i> , 2017 , 429, 271-284 | 3.1 | 13 |
| 41 | Tissue Sculpting by Fibrils. <i>Developmental Cell</i> , 2016 , 38, 1-3 | 10.2 | 2 |
| 40 | SPARC Promotes Cell Invasion In Vivo by Decreasing Type IV Collagen Levels in the Basement Membrane. <i>PLoS Genetics</i> , 2016 , 12, e1005905 | 6 | 48 |
| 39 | Boundary cells restrict dystroglycan trafficking to control basement membrane sliding during tissue remodeling. <i>ELife</i> , 2016 , 5, | 8.9 | 7 |
| 38 | 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 | 6 | 30 |
| 37 | A new front in cell invasion: The invadopodial membrane. <i>European Journal of Cell Biology</i> , 2016 , 95, 4416-448 | 6.4 | 20 |
| 36 | An active role for basement membrane assembly and modification in tissue sculpting. <i>Journal of Cell Science</i> , 2015 , 128, 1661-8 | 5.3 | 69 |
| 35 | A developmental biologist's "outside-the-cell" thinking. <i>Journal of Cell Biology</i> , 2015 , 210, 369-72 | 7.3 | 12 |
| 34 | Invasive Cell Fate Requires G1 Cell-Cycle Arrest and Histone Deacetylase-Mediated Changes in Gene Expression. <i>Developmental Cell</i> , 2015 , 35, 162-74 | 10.2 | 78 |
| 33 | RAB-10-Dependent Membrane Transport Is Required for Dendrite Arborization. <i>PLoS Genetics</i> , 2015 , 11, e1005484 | 6 | 48 |
| 32 | Basement Membranes in the Worm: A Dynamic Scaffolding that Instructs Cellular Behaviors and Shapes Tissues. <i>Current Topics in Membranes</i> , 2015 , 76, 337-71 | 2.2 | 17 |

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| 31 | The unfolded protein response is required for dendrite morphogenesis. <i>ELife</i> , 2015 , 4, e06963 | 8.9 | 32 |
| 30 | In situ imaging in <i>C. elegans</i> reveals developmental regulation of microtubule dynamics. <i>Developmental Cell</i> , 2014 , 29, 203-16 | 10.2 | 21 |
| 29 | Repurposing an endogenous degradation system for rapid and targeted depletion of <i>C. elegans</i> proteins. <i>Development (Cambridge)</i> , 2014 , 141, 4640-7 | 6.6 | 73 |
| 28 | B-LINK: a hemocentrin, plakins, and integrin-dependent adhesion system that links tissues by connecting adjacent basement membranes. <i>Developmental Cell</i> , 2014 , 31, 319-331 | 10.2 | 43 |
| 27 | UNC-6 (netrin) stabilizes oscillatory clustering of the UNC-40 (DCC) receptor to orient polarity. <i>Journal of Cell Biology</i> , 2014 , 206, 619-33 | 7.3 | 33 |
| 26 | 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, 328-33 | 3.4 | 8 |
| 25 | Invadopodia and basement membrane invasion in vivo. <i>Cell Adhesion and Migration</i> , 2014 , 8, 246-55 | 3.2 | 48 |
| 24 | Traversing the basement membrane in vivo: a diversity of strategies. <i>Journal of Cell Biology</i> , 2014 , 204, 291-302 | 7.3 | 128 |
| 23 | 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 | 6 | 55 |
| 22 | 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 | | 3 |
| 21 | Cell division and targeted cell cycle arrest opens and stabilizes basement membrane gaps. <i>Nature Communications</i> , 2014 , 5, 4184 | 17.4 | 29 |
| 20 | 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, 1342-53 | 6.6 | 17 |
| 19 | ADF/cofilin promotes invadopodial membrane recycling during cell invasion in vivo. <i>Journal of Cell Biology</i> , 2014 , 204, 1209-18 | 7.3 | 35 |
| 18 | Morphogenesis of the <i>Caenorhabditis elegans</i> vulva. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013 , 2, 75-95 | 5.9 | 35 |
| 17 | The netrin receptor DCC focuses invadopodia-driven basement membrane transmigration in vivo. <i>Journal of Cell Biology</i> , 2013 , 201, 903-13 | 7.3 | 87 |
| 16 | Cell invasion through basement membrane: The netrin receptor DCC guides the way. <i>Worm</i> , 2013 , 2, e26169 | | 16 |
| 15 | Cell invasion through basement membrane: the anchor cell breaches the barrier. <i>Current Opinion in Cell Biology</i> , 2011 , 23, 589-96 | 9 | 65 |
| 14 | 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, 641-51 | 23.4 | 80 |

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| 13 | 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, 380-91 | 3.1 | 21 |
| 12 | Dissection of genetic pathways in <i>C. elegans</i> . <i>Methods in Cell Biology</i> , 2011 , 106, 113-57 | 1.8 | 20 |
| 11 | In vivo identification of regulators of cell invasion across basement membranes. <i>Science Signaling</i> , 2010 , 3, ra35 | 8.8 | 53 |
| 10 | Roles for netrin signaling outside of axon guidance: a view from the worm. <i>Developmental Dynamics</i> , 2010 , 239, 1296-305 | 2.9 | 21 |
| 9 | An expression screen for RhoGEF genes involved in <i>C. elegans</i> gonadogenesis. <i>Gene Expression Patterns</i> , 2009 , 9, 397-403 | 1.5 | 12 |
| 8 | UNC-6 (netrin) orients the invasive membrane of the anchor cell in <i>C. elegans</i> . <i>Nature Cell Biology</i> , 2009 , 11, 183-9 | 23.4 | 105 |
| 7 | 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, 187-98 | 10.2 | 89 |
| 6 | Cell invasion through basement membranes: an anchor of understanding. <i>Trends in Cell Biology</i> , 2006 , 16, 250-6 | 18.3 | 50 |
| 5 | FOS-1 promotes basement-membrane removal during anchor-cell invasion in <i>C. elegans</i> . <i>Cell</i> , 2005 , 121, 951-62 | 56.2 | 148 |
| 4 | Anchor cell invasion into the vulval epithelium in <i>C. elegans</i> . <i>Developmental Cell</i> , 2003 , 5, 21-31 | 10.2 | 106 |
| 3 | Caenorhabditis elegans cog-1 locus encodes GTX/Nkx6.1 homeodomain proteins and regulates multiple aspects of reproductive system development. <i>Developmental Biology</i> , 2002 , 252, 202-13 | 3.1 | 36 |
| 2 | Gene expression markers for Caenorhabditis elegans vulval cells. <i>Mechanisms of Development</i> , 2002 , 119 Suppl 1, S203-9 | 1.7 | 52 |
| 1 | A basement membrane discovery pipeline uncovers network complexity, new regulators, and human disease associations | | 1 |