Denise J Montell

List of Publications by Year
in descending order

90 papers	8,391 citations	57758 44 h-index	53230 85 g-index
110 all docs	110 docs citations	110 times ranked	8130 citing authors

#	Article	IF	Citations
1	Ovarian Cancer Metastasis: Integrating insights from disparate model organisms. Nature Reviews Cancer, 2005, 5, 355-366.	28.4	480
2	Mechanical Feedback through E-Cadherin Promotes Direction Sensing during Collective Cell Migration. Cell, 2014, 157, 1146-1159.	28.9	428
3	Cell motility in cancer invasion and metastasis: insights from simple model organisms. Nature Reviews Cancer, 2018, 18, 296-312.	28.4	380
4	slow border cells, a locus required for a developmentally regulated cell migration during oogenesis, encodes Drosophila CEBP. Cell, 1992, 71, 51-62.	28.9	323
5	Border-cell migration: the race is on. Nature Reviews Molecular Cell Biology, 2003, 4, 13-24.	37.0	302
6	Light-mediated activation reveals a key role for Rac in collective guidance of cell movement in vivo. Nature Cell Biology, 2010, 12, 591-597.	10.3	297
7	Paracrine Signaling through the JAK/STAT Pathway Activates Invasive Behavior of Ovarian Epithelial Cells in Drosophila. Cell, 2001, 107, 831-841.	28.9	285
8	Regulation of Invasive Cell Behavior by Taiman, a Drosophila Protein Related to AIB1, a Steroid Receptor Coactivator Amplified in Breast Cancer. Cell, 2000, 103, 1047-1058.	28.9	267
9	Morphogenetic Cell Movements: Diversity from Modular Mechanical Properties. Science, 2008, 322, 1502-1505.	12.6	253
10	Activated Signal Transducer and Activator of Transcription (STAT) 3. Cancer Research, 2004, 64, 3550-3558.	0.9	239
11	Tissue elongation requires oscillating contractions of a basal actomyosin network. Nature Cell Biology, 2010, 12, 1133-1142.	10.3	233
12	Cell survival, DNA damage, and oncogenic transformation after a transient and reversible apoptotic response. Molecular Biology of the Cell, 2012, 23, 2240-2252.	2.1	217
13	Cellular and Molecular Mechanisms of Border Cell Migration Analyzed Using Time-Lapse Live-Cell Imaging. Developmental Cell, 2007, 12, 997-1005.	7.0	212
14	Group choreography: mechanisms orchestrating the collective movement of border cells. Nature Reviews Molecular Cell Biology, 2012, 13, 631-645.	37.0	208
15	Myosin VI is required for E-cadherin-mediated border cell migration. Nature Cell Biology, 2002, 4, 616-620.	10.3	207
16	Eyes Absent, a key repressor of polar cell fate duringDrosophilaoogenesis. Development (Cambridge), 2002, 129, 5377-5388.	2.5	204
17	A Role for Drosophila IAP1-Mediated Caspase Inhibition in Rac-Dependent Cell Migration. Cell, 2004, 118, 111-125.	28.9	177
18	Development and dynamics of cell polarity at a glance. Journal of Cell Science, 2017, 130, 1201-1207.	2.0	164

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19	A protocol for culturing Drosophila melanogaster stage 9 egg chambers for live imaging. Nature Protocols, 2007, 2, 2467-2473.	12.0	162
20	Drosophila substrate adhesion molecule: Sequence of laminin B1 chain reveals domains of homology with mouse. Cell, 1988, 53, 463-473.	28.9	157
21	The Transmembrane Protein Off-Track Associates with Plexins and Functions Downstream of Semaphorin Signaling during Axon Guidance. Neuron, 2001, 32, 53-62.	8.1	153
22	Lessons from border cell migration in the Drosophila ovary: A role for myosin VI in dissemination of human ovarian cancer. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8144-8149.	7.1	141
23	Rab11 regulates cellâ€“cell communication during collective cell movements. Nature Cell Biology, 2013, 15, 317-324.	10.3	136
24	PVF1, a PDGF/VEGF homolog, is sufficient to guide border cells and interacts genetically with Taiman. Development (Cambridge), 2003, 130, 3469-3478.	2.5	133
25	Requirement for JAK/STAT signaling throughout border cell migration in Drosophila. Development (Cambridge), 2005, 132, 3483-3492.	2.5	126
26	Analysis of Cell Migration Using Whole-Genome Expression Profiling of Migratory Cells in the Drosophila Ovary. Developmental Cell, 2006, 10, 483-495.	7.0	125
27	Requirement for Par-6 and Bazooka in Drosophila border cell migration. Development (Cambridge), 2004, 131, 5243-5251.	2.5	114
28	Unconventional Ways to Live and Die: Cell Death and Survival in Development, Homeostasis, and Disease. Annual Review of Cell and Developmental Biology, 2018, 34, 311-332.	9.4	109
29	Multiple EGFR ligands participate in guiding migrating border cells. Developmental Biology, 2006, 296, 94-103.	2.0	103
30	A molecular signature for anastasis, recovery from the brink of apoptotic cell death. Journal of Cell Biology, 2017, 216, 3355-3368.	5.2	103
31	Border-cell migration requires integration of spatial and temporal signals by the BTB protein Abrupt. Nature Cell Biology, 2009, 11, 569-579.	10.3	95
32	CasExpress reveals widespread and diverse patterns of cell survival of caspase-3 activation during development in vivo. ELife, 2016, 5, .	6.0	94
33	Regulation of Cell Adhesion and Collective Cell Migration by Hindsight and Its Human Homolog RREB1. Current Biology, 2008, 18, 532-537.	3.9	91
34	Feedback Inhibition of JAK/STAT Signaling by Apontic Is Required to Limit an Invasive Cell Population. Developmental Cell, 2008, 14, 726-738.	7.0	78
35	Cellular and Molecular Mechanisms of Single and Collective Cell Migrations in Drosophila: Themes and Variations. Annual Review of Genetics, 2014, 48, 295-318.	7.6	64
36	Modeling and analysis of collective cell migration in an in vivo three-dimensional environment. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2134-41.	7.1	63

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37	Castor is required for Hedgehog-dependent cell-fate specification and follicle stem cell maintenance in Drosophila oogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1734-42.	7.1	62
38	PAR-1 Kinase Regulates Epithelial Detachment and Directional Protrusion of Migrating Border Cells. Current Biology, 2008, 18, 1659-1667.	3.9	60
39	Enabled and Capping protein play important roles in shaping cell behavior during Drosophila oogenesis. Developmental Biology, 2009, 333, 90-107.	2.0	60
40	The social lives of migrating cells in Drosophila. Current Opinion in Genetics and Development, 2006, 16, 374-383.	3.3	58
41	miRNA-mediated feedback inhibition of JAK/STAT morphogen signalling establishes a cell fate threshold. Nature Cell Biology, 2011, 13, 1062-1069.	10.3	56
42	Command and control: regulatory pathways controlling invasive behavior of the border cells. Mechanisms of Development, 2001, 105, 19-25.	1.7	55
43	Cell interactions in collective cell migration. Development (Cambridge), 2019, 146, .	2.5	53
44	Shining light on Drosophila oogenesis: live imaging of egg development. Current Opinion in Genetics and Development, 2011, 21, 612-619.	3.3	51
45	Spatiotemporal Control of Small GTPases with Light Using the LOV Domain. Methods in Enzymology, 2011, 497, 393-407.	1.0	49
46	Tissue topography steers migrating Drosophila border cells. Science, 2020, 370, 987-990.	12.6	49
47	Coordination of protrusion dynamics within and between collectively migrating border cells by myosin II. Molecular Biology of the Cell, 2019, 30, 2490-2502.	2.1	47
48	Laser ablation studies of the role of the Drosophila oocyte nucleus in pattern formation. Science, 1991, 254, 290-293.	12.6	44
49	Modeling Migration and Metastasis in Drosophila. Journal of Mammary Gland Biology and Neoplasia, 2007, 12, 103-114.	2.7	44
50	Genes that drive invasion and migration in Drosophila. Current Opinion in Genetics and Development, 2004, 14, 86-91.	3.3	42
51	Spatially localized Kuzbanian required for specific activation of Notch during border cell migration. Developmental Biology, 2007, 301, 532-540.	2.0	40
52	Mechanochemical regulation of oscillatory follicle cell dynamics in the developing Drosophila egg chamber. Molecular Biology of the Cell, 2014, 25, 3709-3716.	2.1	40
53	Requirement for the Vasa RNA Helicase ingurkenmRNA Localization. Developmental Biology, 1998, 199, 1-10.	2.0	38
54	Quantitative microscopy of the Drosophila ovary shows multiple niche signals specify progenitor cell fate. Nature Communications, 2017, 8, 1244.	12.8	38

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55	Border Cell Migration: A Model System for Live Imaging and Genetic Analysis of Collective Cell Movement. Methods in Molecular Biology, 2015, 1328, 89-97.	0.9	37
56	A role for extra macrochaetae downstream of Notch in follicle cell differentiation. Development (Cambridge), 2004, 131, 5971-5980.	2.5	34
57	Psidin, a conserved protein that regulates protrusion dynamics and cell migration. Genes and Development, 2011, 25, 730-741.	5.9	34
58	Q&A: Cellular near death experiencesâ€"what is anastasis?. BMC Biology, 2017, 15, 92.	3.8	29
59	Moving right along: regulation of cell migration during Drosophila development. Trends in Genetics, 1994, 10, 59-62.	6.7	28
60	An Atypical Tropomyosin in Drosophila with Intermediate Filament-like Properties. Cell Reports, 2016, 16, 928-938.	6.4	28
61	Rap1 Negatively Regulates the Hippo Pathway to Polarize Directional Protrusions in Collective Cell Migration. Cell Reports, 2018, 22, 2160-2175.	6.4	28
62	Akt1 and dCIZ1 promote cell survival from apoptotic caspase activation during regeneration and oncogenic overgrowth. Nature Communications, 2020, 11, 5726.	12.8	28
63	Diverse and dynamic sources and sinks in gradient formation and directed migration. Current Opinion in Cell Biology, 2014, 30, 91-98.	5.4	27
64	Multiple Ras Signals Pattern theDrosophilaOvarian Follicle Cells. Developmental Biology, 1997, 185, 25-33.	2.0	26
65	Light activated cell migration in synthetic extracellular matrices. Biomaterials, 2012, 33, 8040-8046.	11.4	26
66	Interpretation of the UPD/JAK/STAT morphogen gradient in Drosophila follicle cells. Cell Cycle, 2009, 8, 2918-2926.	2.6	24
67	Integration of Migratory Cells into a New Site InÂVivo Requires Channel-Independent Functions of Innexins on Microtubules. Developmental Cell, 2020, 54, 501-515.e9.	7.0	24
68	Analysis of Cell Migration Using <I>Drosophila </I>as a Model System. , 2005, 294, 175-202.		19
69	A hormonal cue promotes timely follicle cell migration by modulating transcription profiles. Mechanisms of Development, 2017, 148, 56-68.	1.7	19
70	Live Imaging of Border Cell Migration in Drosophila. Methods in Molecular Biology, 2016, 1407, 153-168.	0.9	18
71	A Drosophila Derailed homolog, Doughnut, expressed in invaginating cells during embryogenesis. Gene, 1999, 231, 155-161.	2.2	17
72	Border Cell Migration: A Model System for Live Imaging and Genetic Analysis of Collective Cell Movement. Methods in Molecular Biology, 2011, 769, 277-286.	0.9	17

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73	Enhanced germline stem cell longevity in Drosophila diapause. Nature Communications, 2022, 13, 711.	12.8	16
74	Developmental regulation of cell migration. Cell Biochemistry and Biophysics, 1999, 31, 219-229.	1.8	14
75	A Cdc42-mediated supracellular network drives polarized forces and Drosophila egg chamber extension. Nature Communications, 2020, 11, 1921.	12.8	13
76	Tousled-like kinase regulates cytokine-mediated communication between cooperating cell types during collective border cell migration. Molecular Biology of the Cell, 2016, 27, 12-19.	2.1	11
77	TRIMing Neural Connections with Ubiquitin. Developmental Cell, 2019, 48, 5-6.	7.0	11
78	Anchors Away! Fos Fosters Anchor-Cell Invasion. Cell, 2005, 121, 816-817.	28.9	9
79	A New Trick for Cyclin-Cdk. Developmental Cell, 2003, 4, 148-149.	7.0	7
80	A Kinase Gets Caspases into Shape. Cell, 2006, 126, 450-452.	28.9	7
81	Independently paced Ca2+ oscillations in progenitor and differentiated cells in an ex vivo epithelial organ. Journal of Cell Science, 2022, 135, .	2.0	5
82	A cellular sense of touch. Nature Cell Biology, 2012, 14, 902-903.	10.3	4
83	Unconventional translation initiation factor <scp>EIF2A</scp> is required for Drosophila spermatogenesis. Developmental Dynamics, 2022, 251, 377-389.	1.8	2
84	Border cell polarity and collective migration require the spliceosome component Cactin. Journal of Cell Biology, 2022, 221, .	5.2	2
85	Stress Induced Mutagenesis, Genetic Diversification, and Cell Survival via Anastasis, the Reversal of Late Stage Apoptosis. , 2013, , 223-241.		1
86	EMT, One of Many Morphological Transitions in Cellular Phase Space. Methods in Molecular Biology, 2021, 2179, 13-18.	0.9	1
87	Cell and molecular dynamics: visualizing, measuring, and manipulating the chemistry of life. Pflugers Archiv European Journal of Physiology, 2013, 465, 345-346.	2.8	0
88	Invite your representative to work. Change the world. Hereâ€™s how.. Molecular Biology of the Cell, 2018, 29, 377-379.	2.1	0
89	A thermogenetics protocol for detecting gap junction channels in Drosophila egg chambers. STAR Protocols, 2021, 2, 100269.	1.2	0
90	Macrophages, masters of invasion. Developmental Cell, 2022, 57, 1314-1315.	7.0	0