

Erez Raz

List of Publications by Year in descending order

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94
papers

10,548
citations

53794

45
h-index

43889

91
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99
all docs

99
docs citations

99
times ranked

11159
citing authors

#	ARTICLE	IF	CITATIONS
1	A Role for Piwi and piRNAs in Germ Cell Maintenance and Transposon Silencing in Zebrafish. <i>Cell</i> , 2007, 129, 69-82.	28.9	989
2	RNA-Binding Protein Dnd1 Inhibits MicroRNA Access to Target mRNA. <i>Cell</i> , 2007, 131, 1273-1286.	28.9	655
3	Guidance of Primordial Germ Cell Migration by the Chemokine SDF-1. <i>Cell</i> , 2002, 111, 647-659.	28.9	629
4	Control of Chemokine-Guided Cell Migration by Ligand Sequestration. <i>Cell</i> , 2008, 132, 463-473.	28.9	552
5	A zebrafish <i>nanos</i> -related gene is essential for the development of primordial germ cells. <i>Genes and Development</i> , 2001, 15, 2877-2885.	5.9	440
6	CXCR7 Functions as a Scavenger for CXCL12 and CXCL11. <i>PLoS ONE</i> , 2010, 5, e9175.	2.5	401
7	dead end, a Novel Vertebrate Germ Plasm Component, Is Required for Zebrafish Primordial Germ Cell Migration and Survival. <i>Current Biology</i> , 2003, 13, 1429-1434.	3.9	399
8	The chemokine SDF1/CXCL12 and its receptor CXCR4 regulate mouse germ cell migration and survival. <i>Development (Cambridge)</i> , 2003, 130, 4279-4286.	2.5	399
9	Migration of Zebrafish Primordial Germ Cells: A Role for Myosin Contraction and Cytoplasmic Flow. <i>Developmental Cell</i> , 2006, 11, 613-627.	7.0	331
10	Development without germ cells: The role of the germ line in zebrafish sex differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4074-4079.	7.1	296
11	The role and regulation of blebs in cell migration. <i>Current Opinion in Cell Biology</i> , 2013, 25, 582-590.	5.4	295
12	The function and regulation of vasa-like genes in germ-cell development. <i>Genome Biology</i> , 2000, 1, reviews1017.1.	9.6	278
13	Primordial germ-cell development: the zebrafish perspective. <i>Nature Reviews Genetics</i> , 2003, 4, 690-700.	16.3	258
14	Guidelines for morpholino use in zebrafish. <i>PLoS Genetics</i> , 2017, 13, e1007000.	3.5	255
15	A role for Rho GTPases and cell-cell adhesion in single-cell motility in vivo. <i>Nature Cell Biology</i> , 2010, 12, 47-53.	10.3	225
16	Filopodia-based Wnt transport during vertebrate tissue patterning. <i>Nature Communications</i> , 2015, 6, 5846.	12.8	206
17	Production of maternal-zygotic mutant zebrafish by germ-line replacement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14919-14924.	7.1	202
18	Primordial germ cell migration in the chick and mouse embryo: the role of the chemokine SDF-1/CXCL12. <i>Developmental Biology</i> , 2004, 272, 351-361.	2.0	191

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19	Arteries are formed by vein-derived endothelial tip cells. <i>Nature Communications</i> , 2014, 5, 5758.	12.8	165
20	CXCR4 and Gab1 cooperate to control the development of migrating muscle progenitor cells. <i>Genes and Development</i> , 2005, 19, 2187-2198.	5.9	164
21	Transition from non-motile behaviour to directed migration during early PGC development in zebrafish. <i>Journal of Cell Science</i> , 2005, 118, 4027-4038.	2.0	159
22	Transposition of the nematode <i>Caenorhabditis elegans</i> Tc3 element in the zebrafish <i>Danio rerio</i> . <i>Current Biology</i> , 1998, 8, 82-88.	3.9	135
23	Polarized actin and VE-cadherin dynamics regulate junctional remodelling and cell migration during sprouting angiogenesis. <i>Nature Communications</i> , 2017, 8, 2210.	12.8	129
24	Multiple Levels of Posttranscriptional Control Lead to Germ Line-Specific Gene Expression in the Zebrafish. <i>Current Biology</i> , 2002, 12, 289-294.	3.9	122
25	Imaging protein activity in live embryos using fluorescence resonance energy transfer biosensors. <i>Nature Protocols</i> , 2011, 6, 1835-1846.	12.0	119
26	HIV-1 Nef Interferes with Host Cell Motility by Deregulation of Cofilin. <i>Cell Host and Microbe</i> , 2009, 6, 174-186.	11.0	118
27	Simultaneous high-resolution detection of multiple transcripts combined with localization of proteins in whole-mount embryos. <i>BMC Biology</i> , 2014, 12, 55.	3.8	108
28	Regulation of zebrafish primordial germ cell migration by attraction towards an intermediate target. <i>Development (Cambridge)</i> , 2002, 129, 25-36.	2.5	105
29	Chemokine signaling in embryonic cell migration: a fisheye view. <i>Development (Cambridge)</i> , 2009, 136, 1223-1229.	2.5	103
30	Retention of paternal DNA methylome in the developing zebrafish germline. <i>Nature Communications</i> , 2019, 10, 3054.	12.8	99
31	Guidance of primordial germ cell migration. <i>Current Opinion in Cell Biology</i> , 2004, 16, 169-173.	5.4	97
32	Signaling pathways controlling primordial germ cell migration in zebrafish. <i>Journal of Cell Science</i> , 2004, 117, 4787-4795.	2.0	89
33	Autonomous Modes of Behavior in Primordial Germ Cell Migration. <i>Developmental Cell</i> , 2004, 6, 589-596.	7.0	88
34	The Vertebrate Protein Dead End Maintains Primordial Germ Cell Fate by Inhibiting Somatic Differentiation. <i>Developmental Cell</i> , 2017, 43, 704-715.e5.	7.0	85
35	Control over the morphology and segregation of Zebrafish germ cell granules during embryonic development. <i>BMC Developmental Biology</i> , 2008, 8, 58.	2.1	78
36	Attraction rules: germ cell migration in zebrafish. <i>Current Opinion in Genetics and Development</i> , 2006, 16, 355-359.	3.3	63

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37	Chemokine-guided cell migration and motility in zebrafish development. <i>EMBO Journal</i> , 2015, 34, 1309-1318.	7.8	63
38	Control of Receptor Internalization, Signaling Level, and Precise Arrival at the Target in Guided Cell Migration. <i>Current Biology</i> , 2007, 17, 1164-1172.	3.9	62
39	Identification and Regulation of a Molecular Module for Bleb-Based Cell Motility. <i>Developmental Cell</i> , 2012, 23, 210-218.	7.0	61
40	Differences in Strength and Timing of the mtDNA Bottleneck between Zebrafish Germline and Non-germline Cells. <i>Cell Reports</i> , 2016, 16, 622-630.	6.4	58
41	Leading and trailing cells cooperate in collective migration of the zebrafish posterior lateral line primordium. <i>Development (Cambridge)</i> , 2014, 141, 3188-3196.	2.5	57
42	Zebrafish germ cells: motility and guided migration. <i>Current Opinion in Cell Biology</i> , 2015, 36, 80-85.	5.4	54
43	Vg1 RBP intracellular distribution and evolutionarily conserved expression at multiple stages during development. <i>Mechanisms of Development</i> , 1999, 88, 101-106.	1.7	53
44	Sequential SDF1a and b-induced mobility guides Medaka PGC migration. <i>Developmental Biology</i> , 2008, 320, 319-327.	2.0	50
45	Control of Dead end localization and activity – Implications for the function of the protein in antagonizing miRNA function. <i>Mechanisms of Development</i> , 2009, 126, 270-277.	1.7	50
46	Dynamic filopodia are required for chemokine-dependent intracellular polarization during guided cell migration in vivo. <i>ELife</i> , 2015, 4, .	6.0	49
47	The nuts and bolts of germ-cell migration. <i>Current Opinion in Cell Biology</i> , 2010, 22, 715-721.	5.4	46
48	Involvement of Pax6 and Otx2 in the forebrain-specific regulation of the vertebrate homeobox gene ANF/Hesx1. <i>Developmental Biology</i> , 2004, 269, 567-579.	2.0	45
49	Bleb Expansion in Migrating Cells Depends on Supply of Membrane from Cell Surface Invaginations. <i>Developmental Cell</i> , 2017, 43, 577-587.e5.	7.0	45
50	Killing the messenger. <i>Cell Adhesion and Migration</i> , 2008, 2, 69-70.	2.7	40
51	Expression of a linker histone-like gene in the primordial germ cells in zebrafish. <i>Mechanisms of Development</i> , 2002, 117, 253-257.	1.7	38
52	Repulsive cues combined with physical barriers and cell-cell adhesion determine progenitor cell positioning during organogenesis. <i>Nature Communications</i> , 2016, 7, 11288.	12.8	38
53	Green fluorescent protein marks skeletal muscle in murine cell lines and zebrafish. <i>Gene</i> , 1996, 173, 89-98.	2.2	37
54	β-arrestin control of late endosomal sorting facilitates decoy receptor function and chemokine gradient formation. <i>Development (Cambridge)</i> , 2012, 139, 2897-2902.	2.5	35

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55	Chemokine-Dependent pH Elevation at the Cell Front Sustains Polarity in Directionally Migrating Zebrafish Germ Cells. <i>Current Biology</i> , 2015, 25, 1096-1103.	3.9	34
56	Regulation of <i>hub</i> mRNA stability and translation by miR430 and the dead end protein promotes preferential expression in zebrafish primordial germ cells. <i>Developmental Dynamics</i> , 2011, 240, 695-703.	1.8	32
57	Holographic optical tweezers-based <i>in vivo</i> manipulations in zebrafish embryos. <i>Journal of Biophotonics</i> , 2017, 10, 1492-1501.	2.3	32
58	Cxcl12 evolution – subfunctionalization of a ligand through altered interaction with the chemokine receptor. <i>Development (Cambridge)</i> , 2011, 138, 2909-2914.	2.5	31
59	Regulation of zebrafish primordial germ cell migration by attraction towards an intermediate target. <i>Development (Cambridge)</i> , 2002, 129, 25-36.	2.5	30
60	What Is Left Behind? Quality Control in Germ Cell Migration. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2007, 2007, pe16.	3.9	29
61	Small RNAs in Germ Cell Development. <i>Current Topics in Developmental Biology</i> , 2012, 99, 79-113.	2.2	26
62	Germ cell migration – Evolutionary issues and current understanding. <i>Seminars in Cell and Developmental Biology</i> , 2020, 100, 152-159.	5.0	26
63	Chemokine-biased robust self-organizing polarization of migrating cells <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
64	Temporal control over the initiation of cell motility by a regulator of G-protein signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11389-11394.	7.1	25
65	Zebrafish <i>dazl</i> regulates cystogenesis and germline stem cell specification during the primordial germ cell to germline stem cell transition. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	25
66	Bioorthogonal mRNA labeling at the poly(A) tail for imaging localization and dynamics in live zebrafish embryos. <i>Chemical Science</i> , 2020, 11, 3089-3095.	7.4	23
67	G β 3 signaling controls the polarization of zebrafish primordial germ cells by regulating Rac activity. <i>Development (Cambridge)</i> , 2012, 139, 57-62.	2.5	22
68	β -Lactamase as a Marker for Gene Expression in Live Zebrafish Embryos. <i>Developmental Biology</i> , 1998, 203, 290-294.	2.0	21
69	E-cadherin focuses protrusion formation at the front of migrating cells by impeding actin flow. <i>Nature Communications</i> , 2020, 11, 5397.	12.8	20
70	Blebs – Formation, Regulation, Positioning, and Role in Amoeboid Cell Migration. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	20
71	Germ cell migration in zebrafish is cyclopamine-sensitive but Smoothed-independent. <i>Developmental Biology</i> , 2009, 328, 342-354.	2.0	19
72	Prenylation-deficient G protein gamma subunits disrupt GPCR signaling in the zebrafish. <i>Cellular Signalling</i> , 2010, 22, 221-233.	3.6	18

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73	Zebrafish Primordial Germ Cell Migration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 684460.	3.7	18
74	Rapid progression through the cell cycle ensures efficient migration of primordial germ cells – The role of Hsp90. <i>Developmental Biology</i> , 2018, 436, 84-93.	2.0	17
75	Hand2 delineates mesothelium progenitors and is reactivated in mesothelioma. <i>Nature Communications</i> , 2022, 13, 1677.	12.8	17
76	Spatio-temporal regulation of concurrent developmental processes by generic signaling downstream of chemokine receptors. <i>ELife</i> , 2018, 7, .	6.0	15
77	Fluid dynamics during bleb formation in migrating cells in vivo. <i>PLoS ONE</i> , 2019, 14, e0212699.	2.5	13
78	AMPK adapts metabolism to developmental energy requirement during dendrite pruning in <i>Drosophila</i> . <i>Cell Reports</i> , 2021, 37, 110024.	6.4	12
79	Cellular Blebs and Membrane Invaginations Are Coupled through Membrane Tension Buffering. <i>Biophysical Journal</i> , 2019, 117, 1485-1495.	0.5	11
80	Dead end and Detour: The function of the RNA-binding protein Dnd in posttranscriptional regulation in the germline. <i>Current Topics in Developmental Biology</i> , 2020, 140, 181-208.	2.2	11
81	Small proteins, big roles: The signaling protein Apela extends the complexity of developmental pathways in the early zebrafish embryo. <i>BioEssays</i> , 2014, 36, 741-745.	2.5	10
82	Germ Cells: Sex and Repression in Mice. <i>Current Biology</i> , 2005, 15, R600-R603.	3.9	9
83	Correlative Light and Electron Microscopy of Rare Cell Populations in Zebrafish Embryos Using Laser Marks. <i>Zebrafish</i> , 2015, 12, 470-473.	1.1	7
84	Using migrating cells as probes to illuminate features in live embryonic tissues. <i>Science Advances</i> , 2020, 6, .	10.3	6
85	A JAM- α -tetraspanin β 25 integrin complex regulates contact inhibition of locomotion. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	6
86	On the robustness of germ cell migration and microRNA-mediated regulation of chemokine signaling. <i>Nature Genetics</i> , 2013, 45, 1264-1265.	21.4	5
87	Found in Translation: A New Player in EMT. <i>Developmental Cell</i> , 2006, 11, 434-436.	7.0	4
88	Editorial overview: Cell adhesion and migration. <i>Current Opinion in Cell Biology</i> , 2015, 36, iv-vi.	5.4	3
89	Blood, blebs and lumen expansion. <i>Nature Cell Biology</i> , 2016, 18, 366-367.	10.3	3
90	Turkey Must End Violent Response to Protests. <i>Science</i> , 2013, 341, 236-236.	12.6	2

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91	D186/D190 is an allele-dependent determinant of HIV-1 Nef function. <i>Virology</i> , 2016, 498, 44-56.	2.4	2
92	Heading towards a dead end: The role of DND1 in germ line differentiation of human iPSCs. <i>PLoS ONE</i> , 2021, 16, e0258427.	2.5	2
93	Tracking and line integration of diffuse cellular subdomains by mesh advection. , 2019, 2019, 6018-6021.		1
94	Building Relationships: A Role for Innexins in Tissue Formation. <i>Developmental Cell</i> , 2020, 54, 428-430.	7.0	0