

# Takashi Hiiragi

## List of Publications by Citations

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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.

34  
papers

2,463  
citations

22  
h-index

39  
g-index

39  
ext. papers

3,100  
ext. citations

15.6  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
34	Stochastic patterning in the mouse pre-implantation embryo. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 4219-31	33.1	384
33	Cell-to-cell expression variability followed by signal reinforcement progressively segregates early mouse lineages. <i>Nature Cell Biology</i> , <b>2014</b> , 16, 27-37	23.4	213
32	Asymmetric division of contractile domains couples cell positioning and fate specification. <i>Nature</i> , <b>2016</b> , 536, 344-348	50.4	209
31	Pulsatile cell-autonomous contractility drives compaction in the mouse embryo. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 849-55	23.4	184
30	The transition from meiotic to mitotic spindle assembly is gradual during early mammalian development. <i>Journal of Cell Biology</i> , <b>2012</b> , 198, 357-70	7.3	152
29	Polarity of the mouse embryo is established at blastocyst and is not prepatterned. <i>Genes and Development</i> , <b>2005</b> , 19, 1081-92	12.6	152
28	First cleavage plane of the mouse egg is not predetermined but defined by the topology of the two apposing pronuclei. <i>Nature</i> , <b>2004</b> , 430, 360-4	50.4	121
27	The Apical Domain Is Required and Sufficient for the First Lineage Segregation in the Mouse Embryo. <i>Developmental Cell</i> , <b>2017</b> , 40, 235-247.e7	10.2	120
26	Hydraulic control of mammalian embryo size and cell fate. <i>Nature</i> , <b>2019</b> , 571, 112-116	50.4	111
25	Inverted light-sheet microscope for imaging mouse pre-implantation development. <i>Nature Methods</i> , <b>2016</b> , 13, 139-42	21.6	102
24	Coordination of Morphogenesis and Cell-Fate Specification in Development. <i>Current Biology</i> , <b>2017</b> , 27, R1024-R1035	6.3	93
23	A self-organization framework for symmetry breaking in the mammalian embryo. <i>Nature Reviews Molecular Cell Biology</i> , <b>2013</b> , 14, 452-9	48.7	88
22	Dual-spindle formation in zygotes keeps parental genomes apart in early mammalian embryos. <i>Science</i> , <b>2018</b> , 361, 189-193	33.3	72
21	Computer simulation of emerging asymmetry in the mouse blastocyst. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 1407-14	6.6	61
20	Confocal multiview light-sheet microscopy. <i>Nature Communications</i> , <b>2015</b> , 6, 8881	17.4	55
19	Hypomethylation of paternal DNA in the late mouse zygote is not essential for development. <i>International Journal of Developmental Biology</i> , <b>2008</b> , 52, 295-8	1.9	32
18	Lumen Expansion Facilitates Epiblast-Primitive Endoderm Fate Specification during Mouse Blastocyst Formation. <i>Developmental Cell</i> , <b>2019</b> , 51, 684-697.e4	10.2	30

17	Symmetry Breaking in the Mammalian Embryo. <i>Annual Review of Cell and Developmental Biology</i> , <b>2018</b> , 34, 405-426	12.6	28
16	Embryology: does pre patterning occur in the mouse egg?. <i>Nature</i> , <b>2006</b> , 442, E3-4; discussion E4	50.4	28
15	Space asymmetry directs preferential sperm entry in the absence of polarity in the mouse oocyte. <i>PLoS Biology</i> , <b>2006</b> , 4, e135	9.7	27
14	Cell fate coordinates mechano-osmotic forces in intestinal crypt formation. <i>Nature Cell Biology</i> , <b>2021</b> , 23, 733-744	23.4	26
13	A Tug-of-War between Cell Shape and Polarity Controls Division Orientation to Ensure Robust Patterning in the Mouse Blastocyst. <i>Developmental Cell</i> , <b>2019</b> , 51, 564-574.e6	10.2	24
12	Inferring cellular forces from image stacks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 372,	5.8	22
11	Venus trap in the mouse embryo reveals distinct molecular dynamics underlying specification of first embryonic lineages. <i>EMBO Reports</i> , <b>2015</b> , 16, 1005-21	6.5	21
10	Bmi1 facilitates primitive endoderm formation by stabilizing Gata6 during early mouse development. <i>Genes and Development</i> , <b>2012</b> , 26, 1445-58	12.6	19
9	Integration of luminal pressure and signalling in tissue self-organization. <i>Development (Cambridge)</i> , <b>2020</b> , 147,	6.6	18
8	Stochastic processes during mouse blastocyst patterning. <i>Cells Tissues Organs</i> , <b>2008</b> , 188, 46-51	2.1	17
7	Stochastic processes in the development of pluripotency in vivo. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 737-44	5.6	13
6	Fatal flaws in the case for pre patterning in the mouse egg. <i>Reproductive BioMedicine Online</i> , <b>2006</b> , 12, 150-2	4	13
5	The Krüppel-associated box repressor domain can induce reversible heterochromatinization of a mouse locus in vivo. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 25361-9	5.4	11
4	Dynamic rearrangement of surface proteins is essential for cytokinesis. <i>Genesis</i> , <b>2008</b> , 46, 152-62	1.9	10
3	An ex vivo system to study cellular dynamics underlying mouse peri-implantation development.. <i>Developmental Cell</i> , <b>2022</b> ,	10.2	2
2	Inferring cell junction tension and pressure from cell geometry. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	2
1	Keeping in Touch to Differentiate. <i>Developmental Cell</i> , <b>2017</b> , 43, 113-114	10.2	1