

Takashi Hiiragi

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.

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	An ex vivo system to study cellular dynamics underlying mouse peri-implantation development.. <i>Developmental Cell</i> , 2022 ,	10.2	2
33	Inferring cell junction tension and pressure from cell geometry. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	2
32	Cell fate coordinates mechano-osmotic forces in intestinal crypt formation. <i>Nature Cell Biology</i> , 2021 , 23, 733-744	23.4	26
31	Integration of luminal pressure and signalling in tissue self-organization. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	18
30	Hydraulic control of mammalian embryo size and cell fate. <i>Nature</i> , 2019 , 571, 112-116	50.4	111
29	Lumen Expansion Facilitates Epiblast-Primitive Endoderm Fate Specification during Mouse Blastocyst Formation. <i>Developmental Cell</i> , 2019 , 51, 684-697.e4	10.2	30
28	A Tug-of-War between Cell Shape and Polarity Controls Division Orientation to Ensure Robust Patterning in the Mouse Blastocyst. <i>Developmental Cell</i> , 2019 , 51, 564-574.e6	10.2	24
27	Dual-spindle formation in zygotes keeps parental genomes apart in early mammalian embryos. <i>Science</i> , 2018 , 361, 189-193	33.3	72
26	Symmetry Breaking in the Mammalian Embryo. <i>Annual Review of Cell and Developmental Biology</i> , 2018 , 34, 405-426	12.6	28
25	The Apical Domain Is Required and Sufficient for the First Lineage Segregation in the Mouse Embryo. <i>Developmental Cell</i> , 2017 , 40, 235-247.e7	10.2	120
24	Inferring cellular forces from image stacks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	22
23	Coordination of Morphogenesis and Cell-Fate Specification in Development. <i>Current Biology</i> , 2017 , 27, R1024-R1035	6.3	93
22	Keeping in Touch to Differentiate. <i>Developmental Cell</i> , 2017 , 43, 113-114	10.2	1
21	Inverted light-sheet microscope for imaging mouse pre-implantation development. <i>Nature Methods</i> , 2016 , 13, 139-42	21.6	102
20	Asymmetric division of contractile domains couples cell positioning and fate specification. <i>Nature</i> , 2016 , 536, 344-348	50.4	209
19	Pulsatile cell-autonomous contractility drives compaction in the mouse embryo. <i>Nature Cell Biology</i> , 2015 , 17, 849-55	23.4	184
18	Venus trap in the mouse embryo reveals distinct molecular dynamics underlying specification of first embryonic lineages. <i>EMBO Reports</i> , 2015 , 16, 1005-21	6.5	21

17	Confocal multiview light-sheet microscopy. <i>Nature Communications</i> , 2015 , 6, 8881	17.4	55
16	Cell-to-cell expression variability followed by signal reinforcement progressively segregates early mouse lineages. <i>Nature Cell Biology</i> , 2014 , 16, 27-37	23.4	213
15	A self-organization framework for symmetry breaking in the mammalian embryo. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 452-9	48.7	88
14	The transition from meiotic to mitotic spindle assembly is gradual during early mammalian development. <i>Journal of Cell Biology</i> , 2012 , 198, 357-70	7.3	152
13	Stochastic processes in the development of pluripotency in vivo. <i>Biotechnology Journal</i> , 2012 , 7, 737-44	5.6	13
12	The Krüppel-associated box repressor domain can induce reversible heterochromatinization of a mouse locus in vivo. <i>Journal of Biological Chemistry</i> , 2012 , 287, 25361-9	5.4	11
11	Bmi1 facilitates primitive endoderm formation by stabilizing Gata6 during early mouse development. <i>Genes and Development</i> , 2012 , 26, 1445-58	12.6	19
10	Stochastic processes during mouse blastocyst patterning. <i>Cells Tissues Organs</i> , 2008 , 188, 46-51	2.1	17
9	Computer simulation of emerging asymmetry in the mouse blastocyst. <i>Development (Cambridge)</i> , 2008 , 135, 1407-14	6.6	61
8	Hypomethylation of paternal DNA in the late mouse zygote is not essential for development. <i>International Journal of Developmental Biology</i> , 2008 , 52, 295-8	1.9	32
7	Dynamic rearrangement of surface proteins is essential for cytokinesis. <i>Genesis</i> , 2008 , 46, 152-62	1.9	10
6	Stochastic patterning in the mouse pre-implantation embryo. <i>Development (Cambridge)</i> , 2007 , 134, 4219-31	16.3	384
5	Fatal flaws in the case for prepatterning in the mouse egg. <i>Reproductive BioMedicine Online</i> , 2006 , 12, 150-2	4	13
4	Embryology: does prepatterning occur in the mouse egg?. <i>Nature</i> , 2006 , 442, E3-4; discussion E4	50.4	28
3	Space asymmetry directs preferential sperm entry in the absence of polarity in the mouse oocyte. <i>PLoS Biology</i> , 2006 , 4, e135	9.7	27
2	Polarity of the mouse embryo is established at blastocyst and is not prepatterned. <i>Genes and Development</i> , 2005 , 19, 1081-92	12.6	152
1	First cleavage plane of the mouse egg is not predetermined but defined by the topology of the two apposing pronuclei. <i>Nature</i> , 2004 , 430, 360-4	50.4	121