

# Hisao Honda

## List of Publications by Year in descending order

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27  
papers

1,939  
citations

394421

19  
h-index

501196

28  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar Cell Polarity Links Axes of Spatial Dynamics in Neural-Tube Closure. <i>Cell</i> , 2012, 149, 1084-1097.	28.9	448
2	A dynamic cell model for the formation of epithelial tissues. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 699-719.	0.6	242
3	Description of cellular patterns by Dirichlet domains: The two-dimensional case. <i>Journal of Theoretical Biology</i> , 1978, 72, 523-543.	1.7	227
4	A three-dimensional vertex dynamics cell model of space-filling polyhedra simulating cell behavior in a cell aggregate. <i>Journal of Theoretical Biology</i> , 2004, 226, 439-453.	1.7	179
5	Geometrical Models for Cells in Tissues. <i>International Review of Cytology</i> , 1983, 81, 191-248.	6.2	174
6	How much does the cell boundary contract in a monolayered cell sheet?. <i>Journal of Theoretical Biology</i> , 1980, 84, 575-588.	1.7	105
7	Computer simulation of emerging asymmetry in the mouse blastocyst. <i>Development (Cambridge)</i> , 2008, 135, 1407-1414.	2.5	75
8	Two different mechanisms of planar cell intercalation leading to tissue elongation. <i>Developmental Dynamics</i> , 2008, 237, 1826-1836.	1.8	74
9	Synergistic action of nectins and cadherins generates the mosaic cellular pattern of the olfactory epithelium. <i>Journal of Cell Biology</i> , 2016, 212, 561-575.	5.2	42
10	Topographic Mapping in the Retinotectal Projection by Means of Complementary Ligand and Receptor Gradients: a Computer Simulation Study. <i>Journal of Theoretical Biology</i> , 1998, 192, 235-246.	1.7	37
11	Chiral cell sliding drives left-right asymmetric organ twisting. <i>ELife</i> , 2018, 7, .	6.0	34
12	Cell models lead to understanding of multi-cellular morphogenesis consisting of successive self-construction of cells. <i>Journal of Biochemistry</i> , 2015, 157, 129-136.	1.7	33
13	Competition between Retinal Ganglion Axons for Targets under the Servomechanism Model Explains Abnormal Retinocollicular Projection of Eph Receptor-Overexpressing or Ephrin-Lacking Mice. <i>Journal of Neuroscience</i> , 2003, 23, 10368-10377.	3.6	32
14	Establishment of epidermal cell columns in mammalian skin: Computer simulation. <i>Journal of Theoretical Biology</i> , 1979, 81, 745-759.	1.7	28
15	Spontaneous Architectural Organization of Mammalian Epidermis from Random Cell Packing. <i>Journal of Investigative Dermatology</i> , 1996, 106, 312-315.	0.7	26
16	Differentiation of wing epidermal scale cells in a butterfly under the lateral inhibition model—appearance of large cells in a polygonal pattern. <i>Acta Biotheoretica</i> , 2000, 48, 121-136.	1.5	26
17	Distribution of differentiated cells in a cell sheet under the lateral inhibition rule of differentiation. <i>Journal of Theoretical Biology</i> , 1991, 153, 287-300.	1.7	24
18	The world of epithelial sheets. <i>Development Growth and Differentiation</i> , 2017, 59, 306-316.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Formation and maintenance of distinctive cell patterns by coexpression of membrane-bound ligands and their receptors. <i>Developmental Dynamics</i> , 2002, 223, 180-192.	1.8	20
20	Geometrical analysis of cells becoming organized into a tensile sheet, the blastular wall, in the starfish. <i>Differentiation</i> , 1984, 25, 16-22.	1.9	19
21	The Chiral Looping of the Embryonic Heart Is Formed by the Combination of Three Axial Asymmetries. <i>Biophysical Journal</i> , 2020, 118, 742-752.	0.5	18
22	Competitive interactions between retinal ganglion axons for tectal targets explain plasticity of retinotectal projection in the servomechanism model of retinotectal mapping. <i>Development Growth and Differentiation</i> , 2004, 46, 425-437.	1.5	14
23	Self-organization at the first stage of honeycomb construction: Analysis of an attachment-excavation model. <i>PLoS ONE</i> , 2018, 13, e0205353.	2.5	14
24	A computer simulation of cell stacking for even thickness in mammalian epidermis. <i>Journal of Theoretical Biology</i> , 1984, 111, 625-633.	1.7	9
25	Left-handed cardiac looping by cell chirality is mediated by position-specific convergent extensions. <i>Biophysical Journal</i> , 2021, 120, 5371-5383.	0.5	8
26	Computational approaches for simulating luminogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2022, 131, 173-185.	5.0	4
27	Simulation of Cell Patterning Triggered by Cell Death and Differential Adhesion in <i>Drosophila</i> Wing. <i>Biophysical Journal</i> , 2018, 114, 958-967.	0.5	2