

# Thomas Lecuit

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

8,131  
citations

212478

28  
h-index

355658

38  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6524  
citing authors

#	ARTICLE	IF	CITATIONS
1	In search of conserved principles of planar cell polarization. <i>Current Opinion in Genetics and Development</i> , 2022, 72, 69-81.	1.5	7
2	Mechanochemical Principles of Spatial and Temporal Patterns in Cells and Tissues. <i>Annual Review of Cell and Developmental Biology</i> , 2022, 38, 321-347.	4.0	34
3	Deterministic and Stochastic Rules of Branching Govern Dendrite Morphogenesis of Sensory Neurons. <i>Current Biology</i> , 2021, 31, 459-472.e4.	1.8	29
4	Distinct actin-dependent nanoscale assemblies underlie the dynamic and hierarchical organization of E-cadherin. <i>Current Biology</i> , 2021, 31, 1726-1736.e4.	1.8	19
5	Formation of polarized contractile interfaces by self-organized Toll-8/Cir1 GPCR asymmetry. <i>Developmental Cell</i> , 2021, 56, 1574-1588.e7.	3.1	40
6	Programmed and self-organized flow of information during morphogenesis. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 245-265.	16.1	157
7	Forward and feedback control mechanisms of developmental tissue growth. <i>Cells and Development</i> , 2021, 168, 203750.	0.7	6
8	Assembly of a persistent apical actin network by the formin Frl/Fmnl tunes epithelial cell deformability. <i>Nature Cell Biology</i> , 2020, 22, 791-802.	4.6	30
9	Genetic induction and mechanochemical propagation of a morphogenetic wave. <i>Nature</i> , 2019, 572, 467-473.	13.7	124
10	Distinct RhoGEFs Activate Apical and Junctional Contractility under Control of G Proteins during Epithelial Morphogenesis. <i>Current Biology</i> , 2019, 29, 3370-3385.e7.	1.8	69
11	Strengthen Your Junctions to Resist the Force. <i>Developmental Cell</i> , 2018, 47, 406-407.	3.1	0
12	Distinct contributions of tensile and shear stress on E-cadherin levels during morphogenesis. <i>Nature Communications</i> , 2018, 9, 5021.	5.8	100
13	Quantitative Control of GPCR Organization and Signaling by Endocytosis in Epithelial Morphogenesis. <i>Current Biology</i> , 2018, 28, 1570-1584.e6.	1.8	43
14	Fat2 and Lar Dance a Pas de Deux during Collective Cell Migration. <i>Developmental Cell</i> , 2017, 40, 425-426.	3.1	3
15	Viscoelastic Dissipation Stabilizes Cell Shape Changes during Tissue Morphogenesis. <i>Current Biology</i> , 2017, 27, 3132-3142.e4.	1.8	120
16	Morphogenesis one century after <i>On Growth and Form</i> . <i>Development (Cambridge)</i> , 2017, 144, 4197-4198.	1.2	20
17	Modular activation of Rho1 by GPCR signalling imparts polarized myosin II activation during morphogenesis. <i>Nature Cell Biology</i> , 2016, 18, 261-270.	4.6	133
18	Mechanochemical Interplay Drives Polarization in Cellular and Developmental Systems. <i>Current Topics in Developmental Biology</i> , 2016, 116, 633-657.	1.0	11

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19	Mechanical Forces and Growth in Animal Tissues. Cold Spring Harbor Perspectives in Biology, 2016, 8, a019232.	2.3	130
20	A self-organized biomechanical network drives shape changes during tissue morphogenesis. Nature, 2015, 524, 351-355.	13.7	347
21	E-cadherin junctions as active mechanical integrators in tissue dynamics. Nature Cell Biology, 2015, 17, 533-539.	4.6	479
22	Local and tissue-scale forces drive oriented junction growth during tissue extension. Nature Cell Biology, 2015, 17, 1247-1258.	4.6	249
23	Actomyosin networks and tissue morphogenesis. Development (Cambridge), 2014, 141, 1789-1793.	1.2	191
24	Oscillation and Polarity of E-Cadherin Asymmetries Control Actomyosin Flow Patterns during Morphogenesis. Developmental Cell, 2013, 26, 162-175.	3.1	152
25	Mechanics of Epithelial Tissue Homeostasis and Morphogenesis. Science, 2013, 340, 1185-1189.	6.0	528
26	A global pattern of mechanical stress polarizes cell divisions and cell shape in the growing <i>Drosophila</i> wing disc. Development (Cambridge), 2013, 140, 4051-4059.	1.2	217
27	Adhesion Disengagement Uncouples Intrinsic and Extrinsic Forces to Drive Cytokinesis in Epithelial Tissues. Developmental Cell, 2013, 24, 227-241.	3.1	145
28	Principles of E-Cadherin Supramolecular Organization In Vivo. Current Biology, 2013, 23, 2197-2207.	1.8	165
29	Stability and Dynamics of Cell-Cell Junctions. Progress in Molecular Biology and Translational Science, 2013, 116, 25-47.	0.9	53
30	Biomechanical regulation of contractility: spatial control and dynamics. Trends in Cell Biology, 2012, 22, 61-81.	3.6	263
31	Force Generation, Transmission, and Integration during Cell and Tissue Morphogenesis. Annual Review of Cell and Developmental Biology, 2011, 27, 157-184.	4.0	483
32	Spatial regulation of Dia and Myosin-II by RhoGEF2 controls initiation of E-cadherin endocytosis during epithelial morphogenesis. Nature Cell Biology, 2011, 13, 529-540.	4.6	240
33	Planar polarized actomyosin contractile flows control epithelial junction remodelling. Nature, 2010, 468, 1110-1114.	13.7	577
34	A two-tiered mechanism for stabilization and immobilization of E-cadherin. Nature, 2008, 453, 751-756.	13.7	365
35	Nature and anisotropy of cortical forces orienting <i>Drosophila</i> tissue morphogenesis. Nature Cell Biology, 2008, 10, 1401-1410.	4.6	535
36	Imaging Cellular and Molecular Dynamics in Live Embryos Using Fluorescent Proteins. Methods in Molecular Biology, 2008, 420, 219-238.	0.4	52

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37	Cell surface mechanics and the control of cell shape, tissue patterns and morphogenesis. Nature Reviews Molecular Cell Biology, 2007, 8, 633-644.	16.1	1,054
38	Developmental control of nuclear morphogenesis and anchoring by charleston, identified in a functional genomic screen of Drosophila cellularisation. Development (Cambridge), 2006, 133, 711-723.	1.2	78
39	Myosin-dependent junction remodelling controls planar cell intercalation and axis elongation. Nature, 2004, 429, 667-671.	13.7	868
40	Distinct RhoGEFs Activate Apical and Junctional 1 Actomyosin Contractility Under Control of G Proteins During Epithelial Morphogenesis. SSRN Electronic Journal, 0, , .	0.4	2