

Thomas Lecuit

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

8,131
citations

186265

28
h-index

315739

38
g-index

69
all docs

69
docs citations

69
times ranked

5819
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Cell surface mechanics and the control of cell shape, tissue patterns and morphogenesis. Nature Reviews Molecular Cell Biology, 2007, 8, 633-644. | 37.0 | 1,054 |
| 2 | Myosin-dependent junction remodelling controls planar cell intercalation and axis elongation. Nature, 2004, 429, 667-671. | 27.8 | 868 |
| 3 | Planar polarized actomyosin contractile flows control epithelial junction remodelling. Nature, 2010, 468, 1110-1114. | 27.8 | 577 |
| 4 | Nature and anisotropy of cortical forces orienting Drosophila tissue morphogenesis. Nature Cell Biology, 2008, 10, 1401-1410. | 10.3 | 535 |
| 5 | Mechanics of Epithelial Tissue Homeostasis and Morphogenesis. Science, 2013, 340, 1185-1189. | 12.6 | 528 |
| 6 | Force Generation, Transmission, and Integration during Cell and Tissue Morphogenesis. Annual Review of Cell and Developmental Biology, 2011, 27, 157-184. | 9.4 | 483 |
| 7 | E-cadherin junctions as active mechanical integrators in tissue dynamics. Nature Cell Biology, 2015, 17, 533-539. | 10.3 | 479 |
| 8 | A two-tiered mechanism for stabilization and immobilization of E-cadherin. Nature, 2008, 453, 751-756. | 27.8 | 365 |
| 9 | A self-organized biomechanical network drives shape changes during tissue morphogenesis. Nature, 2015, 524, 351-355. | 27.8 | 347 |
| 10 | Biomechanical regulation of contractility: spatial control and dynamics. Trends in Cell Biology, 2012, 22, 61-81. | 7.9 | 263 |
| 11 | Local and tissue-scale forces drive oriented junction growth during tissue extension. Nature Cell Biology, 2015, 17, 1247-1258. | 10.3 | 249 |
| 12 | 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. | 10.3 | 240 |
| 13 | 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. | 2.5 | 217 |
| 14 | Actomyosin networks and tissue morphogenesis. Development (Cambridge), 2014, 141, 1789-1793. | 2.5 | 191 |
| 15 | Principles of E-Cadherin Supramolecular Organization In Vivo. Current Biology, 2013, 23, 2197-2207. | 3.9 | 165 |
| 16 | Programmed and self-organized flow of information during morphogenesis. Nature Reviews Molecular Cell Biology, 2021, 22, 245-265. | 37.0 | 157 |
| 17 | Oscillation and Polarity of E-Cadherin Asymmetries Control Actomyosin Flow Patterns during Morphogenesis. Developmental Cell, 2013, 26, 162-175. | 7.0 | 152 |
| 18 | Adhesion Disengagement Uncouples Intrinsic and Extrinsic Forces to Drive Cytokinesis in Epithelial Tissues. Developmental Cell, 2013, 24, 227-241. | 7.0 | 145 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Modular activation of Rho1 by GPCR signalling imparts polarized myosin II activation during morphogenesis. <i>Nature Cell Biology</i> , 2016, 18, 261-270. | 10.3 | 133 |
| 20 | Mechanical Forces and Growth in Animal Tissues. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a019232. | 5.5 | 130 |
| 21 | Genetic induction and mechanochemical propagation of a morphogenetic wave. <i>Nature</i> , 2019, 572, 467-473. | 27.8 | 124 |
| 22 | Viscoelastic Dissipation Stabilizes Cell Shape Changes during Tissue Morphogenesis. <i>Current Biology</i> , 2017, 27, 3132-3142.e4. | 3.9 | 120 |
| 23 | Distinct contributions of tensile and shear stress on E-cadherin levels during morphogenesis. <i>Nature Communications</i> , 2018, 9, 5021. | 12.8 | 100 |
| 24 | Developmental control of nuclear morphogenesis and anchoring by charleston, identified in a functional genomic screen of <i>Drosophila</i> cellularisation. <i>Development (Cambridge)</i> , 2006, 133, 711-723. | 2.5 | 78 |
| 25 | Distinct RhoGEFs Activate Apical and Junctional Contractility under Control of G Proteins during Epithelial Morphogenesis. <i>Current Biology</i> , 2019, 29, 3370-3385.e7. | 3.9 | 69 |
| 26 | Stability and Dynamics of Cell-Cell Junctions. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 116, 25-47. | 1.7 | 53 |
| 27 | Imaging Cellular and Molecular Dynamics in Live Embryos Using Fluorescent Proteins. <i>Methods in Molecular Biology</i> , 2008, 420, 219-238. | 0.9 | 52 |
| 28 | Quantitative Control of GPCR Organization and Signaling by Endocytosis in Epithelial Morphogenesis. <i>Current Biology</i> , 2018, 28, 1570-1584.e6. | 3.9 | 43 |
| 29 | Formation of polarized contractile interfaces by self-organized Toll-8/Cir1 GPCR asymmetry. <i>Developmental Cell</i> , 2021, 56, 1574-1588.e7. | 7.0 | 40 |
| 30 | Mechanochemical Principles of Spatial and Temporal Patterns in Cells and Tissues. <i>Annual Review of Cell and Developmental Biology</i> , 2022, 38, 321-347. | 9.4 | 34 |
| 31 | 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. | 10.3 | 30 |
| 32 | Deterministic and Stochastic Rules of Branching Govern Dendrite Morphogenesis of Sensory Neurons. <i>Current Biology</i> , 2021, 31, 459-472.e4. | 3.9 | 29 |
| 33 | Morphogenesis one century after <i>On Growth and Form</i> . <i>Development (Cambridge)</i> , 2017, 144, 4197-4198. | 2.5 | 20 |
| 34 | Distinct actin-dependent nanoscale assemblies underlie the dynamic and hierarchical organization of E-cadherin. <i>Current Biology</i> , 2021, 31, 1726-1736.e4. | 3.9 | 19 |
| 35 | Mechanochemical Interplay Drives Polarization in Cellular and Developmental Systems. <i>Current Topics in Developmental Biology</i> , 2016, 116, 633-657. | 2.2 | 11 |
| 36 | In search of conserved principles of planar cell polarization. <i>Current Opinion in Genetics and Development</i> , 2022, 72, 69-81. | 3.3 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Forward and feedback control mechanisms of developmental tissue growth. <i>Cells and Development</i> , 2021, 168, 203750. | 1.5 | 6 |
| 38 | Fat2 and Lar Dance a Pas de Deux during Collective Cell Migration. <i>Developmental Cell</i> , 2017, 40, 425-426. | 7.0 | 3 |
| 39 | Distinct RhoGEFs Activate Apical and Junctional α -Actomyosin Contractility Under Control of G Proteins During Epithelial Morphogenesis. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 2 |
| 40 | Strengthen Your Junctions to Resist the Force. <i>Developmental Cell</i> , 2018, 47, 406-407. | 7.0 | 0 |