

Nils C Gauthier

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,712
citations

172457

29
h-index

345221

36
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41
all docs

41
docs citations

41
times ranked

5325
citing authors

#	ARTICLE	IF	CITATIONS
1	Protocol to assess human glioma propagating cell migration on linear micropatterns mimicking brain invasion tracks. STAR Protocols, 2022, 3, 101331.	1.2	2
2	Building the phagocytic cup on an actin scaffold. Current Opinion in Cell Biology, 2022, 77, 102112.	5.4	8
3	Adaptive mechanoproperties mediated by the formin FMN1 characterize glioblastoma fitness for invasion. Developmental Cell, 2021, 56, 2841-2855.e8.	7.0	12
4	Phagocytic "teeth" and myosin-II "jaw" power target constriction during phagocytosis. ELife, 2021, 10, 6.0		35
5	Squeezing in a Meal: Myosin Functions in Phagocytosis. Trends in Cell Biology, 2020, 30, 157-167.	7.9	39
6	Complementary mesoscale dynamics of spectrin and acto-myosin shape membrane territories during mechanoresponse. Nature Communications, 2020, 11, 5108.	12.8	20
7	One-dimensional cell motility patterns. Physical Review Research, 2020, 2, .	3.6	40
8	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. Developmental Cell, 2019, 51, 460-475.e10.	7.0	112
9	F-actin dynamics regulates mammalian organ growth and cell fate maintenance. Journal of Hepatology, 2019, 71, 130-142.	3.7	56
10	Membrane-cytoskeletal crosstalk mediated by myosin-I regulates adhesion turnover during phagocytosis. Nature Communications, 2019, 10, 1249.	12.8	64
11	Mechanosensing at integrin-mediated cell-matrix adhesions: from molecular to integrated mechanisms. Current Opinion in Cell Biology, 2018, 50, 20-26.	5.4	75
12	How cells respond to environmental cues " insights from bio-functionalized substrates. Journal of Cell Science, 2017, 130, 51-61.	2.0	93
13	Membrane tension: A challenging but universal physical parameter in cell biology. Seminars in Cell and Developmental Biology, 2017, 71, 30-41.	5.0	145
14	Membrane tension controls adhesion positioning at the leading edge of cells. Journal of Cell Biology, 2017, 216, 2959-2977.	5.2	101
15	Mechanical confinement triggers glioma linear migration dependent on formin FHOD3. Molecular Biology of the Cell, 2016, 27, 1246-1261.	2.1	51
16	±-Actinin links extracellular matrix rigidity-sensing contractile units with periodic cell-edge retractions. Molecular Biology of the Cell, 2016, 27, 3471-3479.	2.1	68
17	±-actin waves, actin cortex disassembly and focal exocytosis driven by actin-phosphoinositide positive feedback. Cytoskeleton, 2016, 73, 180-196.	2.0	32
18	Protrusive waves guide 3D cell migration along nanofibers. Journal of Cell Biology, 2015, 211, 683-701.	5.2	73

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19	Physical principles of membrane remodelling during cell mechanoadaptation. <i>Nature Communications</i> , 2015, 6, 7292.	12.8	91
20	The effects of nanofiber diameter and orientation on siRNA uptake and gene silencing. <i>Biomaterials</i> , 2015, 37, 94-106.	11.4	32
21	Myosin 1E localizes to actin polymerization sites in lamellipodia, affecting actin dynamics and adhesion formation. <i>Biology Open</i> , 2013, 2, 1288-1299.	1.2	33
22	Plasma membrane tension orchestrates membrane trafficking, cytoskeletal remodeling, and biochemical signaling during phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11875-11880.	7.1	164
23	Integrin-dependent force transmission to the extracellular matrix by β -actinin triggers adhesion maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1361-70.	7.1	240
24	Cell crawling mediates collective cell migration to close undamaged epithelial gaps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10891-10896.	7.1	175
25	Mechanical feedback between membrane tension and dynamics. <i>Trends in Cell Biology</i> , 2012, 22, 527-535.	7.9	400
26	Easy Fabrication of Thin Membranes with Through Holes. Application to Protein Patterning. <i>PLoS ONE</i> , 2012, 7, e44261.	2.5	38
27	<i>Bacillus sphaericus</i> Binary Toxin Elicits Host Cell Autophagy as a Response to Intoxication. <i>PLoS ONE</i> , 2011, 6, e14682.	2.5	47
28	Temporary increase in plasma membrane tension coordinates the activation of exocytosis and contraction during cell spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14467-14472.	7.1	329
29	Force generated by actomyosin contraction builds bridges between adhesive contacts. <i>EMBO Journal</i> , 2010, 29, 1055-1068.	7.8	102
30	Cytoskeletal coherence requires myosin-IIA contractility. <i>Journal of Cell Science</i> , 2010, 123, 413-423.	2.0	179
31	Plasma Membrane Area Increases with Spread Area by Exocytosis of a GPI-anchored Protein Compartment. <i>Molecular Biology of the Cell</i> , 2009, 20, 3261-3272.	2.1	106
32	Clustering of β 5 integrins determines adhesion strength whereas β 3 and talin enable mechanotransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16245-16250.	7.1	373
33	Early endosomes associated with dynamic F-actin structures are required for late trafficking of <i>H. pylori</i> VacA toxin. <i>Journal of Cell Biology</i> , 2007, 177, 343-354.	5.2	91
34	<i>Helicobacter pylori</i> VacA toxin: a tool to study novel early endosomes. <i>Trends in Microbiology</i> , 2006, 14, 292-294.	7.7	9
35	Disruption of Autophagy at the Maturation Step by the Carcinogen Lindane Is Associated with the Sustained Mitogen-Activated Protein Kinase/Extracellular Signal-Regulated Kinase Activity. <i>Cancer Research</i> , 2006, 66, 6861-6870.	0.9	172
36	Glycosylphosphatidylinositol-anchored Proteins and Actin Cytoskeleton Modulate Chloride Transport by Channels Formed by the <i>Helicobacter pylori</i> Vacuolating Cytotoxin VacA in HeLa Cells*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9481-9489.	3.4	41

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37	Gastric cell apoptosis and H. pylori: has the main function of VacA finally been identified?. Trends in Microbiology, 2003, 11, 410-413.	7.7	61
38	Membrane Tension Orchestrates Rear Retraction in Matrix Directed Cell Migration. SSRN Electronic Journal, 0, , .	0.4	1