Julien Colombelli

List of Publications by Citations

41 papers	2,380 citations	21 h-index	47 g-index
47 ext. papers	2,773 ext. citations	9.5 avg, IF	4.6 L-index

#	Paper	IF	Citations
41	Pulsed forces timed by a ratchet-like mechanism drive directed tissue movement during dorsal closure. *Cell*, **2009**, 137, 1331-42	56.2	404
40	A macrodomain-containing histone rearranges chromatin upon sensing PARP1 activation. *Nature Structural and Molecular Biology*, **2009**, 16, 923-9	17.6	341
39	Forces driving epithelial wound healing. *Nature Physics*, **2014**, 10, 683-690	16.2	233
38	Mechanism of phototaxis in marine zooplankton. *Nature*, **2008**, 456, 395-9	50.4	208
37	Mechanosensing in actin stress fibers revealed by a close correlation between force and protein localization. *Journal of Cell Science*, **2009**, 122, 1665-79	5.3	206
36	Tip-cell migration controls stalk-cell intercalation during Drosophila tracheal tube elongation. *Current Biology*, **2008**, 18, 1727-34	6.3	112
35	Decrease in Cell Volume Generates Contractile Forces Driving Dorsal Closure. *Developmental Cell*, **2015**, 33, 611-21	10.2	69
34	Reprogramming cell shape with laser nano-patterning. *Journal of Cell Science*, **2012**, 125, 2134-40	5.3	60
33	Spore number control and breeding in Saccharomyces cerevisiae: a key role for a self-organizing system. *Journal of Cell Biology*, **2005**, 171, 627-40	7.3	60
32	In vivo selective cytoskeleton dynamics quantification in interphase cells induced by pulsed ultraviolet laser nanosurgery. *Traffic*, **2005**, 6, 1093-102	5.7	58
31	Ultraviolet diffraction limited nanosurgery of live biological tissues. *Review of Scientific Instruments*, **2004**, 75, 472-478	1.7	57
30	Dynein-mediated pulling forces drive rapid mitotic spindle elongation in Ustilago maydis. *EMBO Journal*, **2006**, 25, 4897-908	13	51
29	Loss of GPR3 reduces the amyloid plaque burden and improves memory in Alzheimer's disease mouse models. *Science Translational Medicine*, **2015**, 7, 309ra164	17.5	49
28	Mitotic cell rounding and epithelial thinning regulate lumen growth and shape. *Nature Communications*, **2015**, 6, 7355	17.4	48
27	Three-dimensional laser microsurgery in light-sheet based microscopy (SPIM). *Optics Express*, **2007**, 15, 6420-30	3.3	38
26	Dynamic recruitment of licensing factor Cdt1 to sites of DNA damage. *Journal of Cell Science*, **2011**, 124, 422-34	5.3	35
25	Adherens Junction Length during Tissue Contraction Is Controlled by the Mechanosensitive Activity of Actomyosin and Junctional Recycling. *Developmental Cell*, **2018**, 47, 453-463.e3	10.2	35

24	Sidekick Is a Key Component of Tricellular Adherens Junctions that Acts to Resolve Cell Rearrangements. *Developmental Cell*, **2019**, 50, 313-326.e5	10.2	31
23	Converging axons collectively initiate and maintain synaptic selectivity in a constantly remodeling sensory organ. *Current Biology*, **2014**, 24, 2968-74	6.3	28
22	Force communication in multicellular tissues addressed by laser nanosurgery. *Cell and Tissue Research*, **2013**, 352, 133-47	4.2	22
21	Viscoelastic response of contractile filament bundles. *Physical Review E*, **2011**, 83, 051902	2.4	22
20	A novel laser nanosurgery approach supports de novo Golgi biogenesis in mammalian cells. *Journal of Cell Science*, **2011**, 124, 978-87	5.3	21
19	Investigating relaxation processes in cells and developing organisms: from cell ablation to cytoskeleton nanosurgery. *Methods in Cell Biology*, **2007**, 82, 267-91	1.8	21
18	Regional vulnerability and spreading of hyperphosphorylated tau in seeded mouse brain. *Neurobiology of Disease*, **2019**, 127, 398-409	7.5	18
17	Polarized cortical tension drives zebrafish epiboly movements. *EMBO Journal*, **2017**, 36, 25-41	13	17
16	The SpoMBe pathway drives membrane bending necessary for cytokinesis and spore formation in yeast meiosis. *EMBO Journal*, **2008**, 27, 2363-74	13	17
15	A correlative light and electron microscopy method based on laser micropatterning and etching. *Methods in Molecular Biology*, **2008**, 457, 203-13	1.4	16
14	Mechanosensing in actin stress fibers revealed by a close correlation between force and protein localization. *Journal of Cell Science*, **2009**, 122, 1928-1928	5.3	15
13	Differential requirements for Tousled-like kinases 1 and 2 in mammalian development. *Cell Death and Differentiation*, **2017**, 24, 1872-1885	12.7	14
12	Subcellular nanosurgery with a pulsed subnanosecond UV-A laser. *Medical Laser Application: International Journal for Laser Treatment and Research*, **2005**, 20, 217-222		14
11	Reversible silencing of endogenous receptors in intact brain tissue using 2-photon pharmacology. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13680-13689	11.5	12
10	Patterned Contractile Forces Promote Epidermal Spreading and Regulate Segment Positioning during Drosophila Head Involution. *Current Biology*, **2016**, 26, 1895-901	6.3	10
9	Toward quantitative three-dimensional microvascular networks segmentation with multiview light-sheet fluorescence microscopy. *Journal of Biomedical Optics*, **2018**, 23, 1-14	3.5	8
8	From whole-organ imaging to in-silico blood flow modeling: A new multi-scale network analysis for revisiting tissue functional anatomy. *PLoS Computational Biology*, **2020**, 16, e1007322	5	4
7	Light Sheet Fluorescence Microscopy Applications for Multicellular Systems **2014**, 109-120		4

6	Workflows and Components of Bioimage Analysis. *Learning Materials in Biosciences*, **2020**, 1-7	0.3	4
5	Highlights from the 2016-2020 NEUBIAS training schools for Bioimage Analysts: a success story and key asset for analysts and life scientists. *F1000Research*, **2021**, 10, 334	3.6	3
4	MosaicExplorerJ: Interactive stitching of terabyte-size tiled datasets from lightsheet microscopy. *F1000Research*, **2020**, 9, 1308	3.6	0
3	Bioimage analysis workflows: community resources to navigate through a complex ecosystem. *F1000Research*, **2021**, 10, 320	3.6	0
2	MosaicExplorerJ: Interactive stitching of terabyte-size tiled datasets from lightsheet microscopy. *F1000Research*, **2020**, 9, 1308	3.6	0
1	Digital Microscopy (ODMS) **2006**, 519-568		