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Automatic quantification of microtubule dynamics enables RNAi-screening of new mitotic spindle regulators

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#	Paper	IF	Citations
38	plusTipTracker: Quantitative image analysis software for the measurement of microtubule dynamics. <i>Journal of Structural Biology</i> , 2011 , 176, 168-84	3.4	185
37	GTSE1 is a microtubule plus-end tracking protein that regulates EB1-dependent cell migration. <i>PLoS ONE</i> , 2012 , 7, e51259	3.7	40
36	Quantitative measurement of single cell dynamics. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 103-9	11.4	28
35	The microtubule affinity regulating kinase MARK4 promotes axoneme extension during early ciliogenesis. <i>Journal of Cell Biology</i> , 2013 , 200, 505-22	7.3	53
34	Nek7 kinase accelerates microtubule dynamic instability. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 1104-13	4.9	24
33	Video-rate nanoscopy using sCMOS camera-specific single-molecule localization algorithms. <i>Nature Methods</i> , 2013 , 10, 653-8	21.6	376
32	A novel microtubule inhibitor 4SC-207 with anti-proliferative activity in taxane-resistant cells. <i>PLoS ONE</i> , 2013 , 8, e79594	3.7	4
31	Increased microtubule assembly rates influence chromosomal instability in colorectal cancer cells. <i>Nature Cell Biology</i> , 2014 , 16, 779-91	23.4	116
30	MAP1S controls microtubule stability throughout the cell cycle in human cells. <i>Journal of Cell Science</i> , 2014 , 127, 5007-13	5.3	11
29	High-speed microscopy with an electrically tunable lens to image the dynamics of in vivo molecular complexes. <i>Review of Scientific Instruments</i> , 2015 , 86, 013707	1.7	33
28	A proteomic study of mitotic phase-specific interactors of EB1 reveals a role for SXIP-mediated protein interactions in anaphase onset. <i>Biology Open</i> , 2015 , 4, 155-69	2.2	22
27	A phenotypic screen identifies microtubule plus end assembly regulators that can function in mitotic spindle orientation. <i>Cell Cycle</i> , 2015 , 14, 827-37	4.7	20
26	The β -tubulin-specific inhibitor gatastatin reveals temporal requirements of microtubule nucleation during the cell cycle. <i>Nature Communications</i> , 2015 , 6, 8722	17.4	39
25	Fanning the flames of CIN. <i>Cell Cycle</i> , 2015 , 14, 2560	4.7	
24	Adaptive Spot Detection With Optimal Scale Selection in Fluorescence Microscopy Images. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 4512-27	8.7	17
23	A versatile multivariate image analysis pipeline reveals features of <i>Xenopus</i> extract spindles. <i>Journal of Cell Biology</i> , 2016 , 213, 127-36	7.3	8
22	Identification of MAC1: A Small Molecule That Rescues Spindle Bipolarity in Monastrol-Treated Cells. <i>ACS Chemical Biology</i> , 2016 , 11, 1544-51	4.9	3

21	Oxidative stress decreases microtubule growth and stability in ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 93, 32-43	5.8	30
20	A Guided Tour of Selected Image Processing and Analysis Methods for Fluorescence and Electron Microscopy. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 6-30	7.5	42
19	Overlap microtubules link sister k-fibres and balance the forces on bi-oriented kinetochores. <i>Nature Communications</i> , 2016 , 7, 10298	17.4	88
18	Toward Discovery of Novel Microtubule Targeting Agents: A SNAP-tag-Based High-Content Screening Assay for the Analysis of Microtubule Dynamics and Cell Cycle Progression. <i>SLAS Discovery</i> , 2017 , 22, 387-398	3.4	3
17	A centrosomal protein FOR20 regulates microtubule assembly dynamics and plays a role in cell migration. <i>Biochemical Journal</i> , 2017 , 474, 2841-2859	3.8	8
16	Automated classification and characterization of the mitotic spindle following knockdown of a mitosis-related protein. <i>BMC Bioinformatics</i> , 2017 , 18, 566	3.6	9
15	Analysis of Microtubule Dynamics Heterogeneity in Cell Culture. <i>Methods in Molecular Biology</i> , 2018 , 1745, 181-204	1.4	3
14	Activated ezrin controls MISP levels to ensure correct NuMA polarization and spindle orientation. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	15
13	Detection and Tracking of Astral Microtubules in Fluorescence Microscopy Images. 2018 ,		1
12	Ccdc61 controls centrosomal localization of Cep170 and is required for spindle assembly and symmetry. <i>Molecular Biology of the Cell</i> , 2018 , 29, 3105-3118	3.5	11
11	MISP regulates the IQGAP1/Cdc42 complex to collectively orchestrate spindle orientation and mitotic progression. <i>Scientific Reports</i> , 2018 , 8, 6330	4.9	10
10	The quantification and regulation of microtubule dynamics in the mitotic spindle. <i>Current Opinion in Cell Biology</i> , 2019 , 60, 36-43	9	16
9	GPR124 regulates microtubule assembly, mitotic progression, and glioblastoma cell proliferation. <i>Glia</i> , 2019 , 67, 1558-1570	9	10
8	Microtubule-associated proteins promote microtubule generation in the absence of β tubulin in human colon cancer cells.		0
7	Measuring microtubule growth and gliding in <i>Caenorhabditis elegans</i> embryos. <i>Methods in Molecular Biology</i> , 2014 , 1136, 103-16	1.4	1
6	A Method for Astral Microtubule Tracking in Fluorescence Images of Cells Doped with Taxol and Nocodazole. <i>Advances in Molecular Imaging</i> , 2019 , 09, 60-86	0.3	1
5	Centrosome-dependent microtubule organization sets the conditions for axon formation.		
4	Microtubule-associated proteins promote microtubule generation in the absence of β tubulin in human colon cancer cells. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	4

3	Centrosome-dependent microtubule modifications set the conditions for axon formation.. <i>Cell Reports</i> , 2022 , 39, 110686	10.6	0
2	Potent microtubule depolymerizing activity of a mitotic Kif18b-MCAK-EB network.. <i>Journal of Cell Science</i> , 2022 ,	53	1
1	Quantifying yeast microtubules and spindles using the Toolkit for Automated Microtubule Tracking (TAMiT).		0