Virginie Hamel

List of Publications by Year
in descending order

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26 papers	1,512 citations	394421 19 h-index	526287 27 g-index
49 all docs	49 docs citations	49 times ranked	1342 citing authors

#	Article	IF	Citations
1	Imaging cellular ultrastructures using expansion microscopy (U-ExM). Nature Methods, 2019, 16, 71-74.	19.0	335
2	A helical inner scaffold provides a structural basis for centriole cohesion. Science Advances, 2020, 6, eaaz4137.	10.3	116
3	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). Nature Communications, 2020, 11, 3388.	12.8	112
4	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. Journal of Cell Biology, 2014, 204, 697-712.	5.2	77
5	Expansion microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid. PLoS Biology, 2021, 19, e3001020.	5.6	77
6	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. Nature Communications, 2017, 8, 14813.	12.8	74
7	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleÂarchitecture. Nature Cell Biology, 2016, 18, 393-403.	10.3	73
8	Essential function of the alveolin network in the subpellicular microtubules and conoid assembly in Toxoplasma gondii. ELife, 2020, 9, .	6.0	71
9	Ultrastructure expansion microscopy (U-ExM). Methods in Cell Biology, 2021, 161, 57-81.	1.1	67
10	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. Current Biology, 2017, 27, 2486-2498.e6.	3.9	53
11	The Rise of the Cartwheel: Seeding the Centriole Organelle. BioEssays, 2018, 40, e1700241.	2.5	53
12	Homogeneous multifocal excitation for high-throughput super-resolution imaging. Nature Methods, 2020, 17, 726-733.	19.0	46
13	Overview of the centriole architecture. Current Opinion in Structural Biology, 2021, 66, 58-65.	5.7	46
14	Visualizing the native cellular organization by coupling cryofixation with expansion microscopy (Cryo-ExM). Nature Methods, 2022, 19, 216-222.	19.0	40
15	Correlative multicolor 3D SIM and STORM microscopy. Biomedical Optics Express, 2014, 5, 3326.	2.9	37
16	Flagellar microtubule doublet assembly in vitro reveals a regulatory role of tubulin C-terminal tails. Science, 2019, 363, 285-288.	12.6	37
17	Architecture of the centriole cartwheelâ€containing region revealed by cryoâ€electron tomography. EMBO Journal, 2020, 39, e106246.	7.8	32
18	The connecting cilium inner scaffold provides a structural foundation that protects against retinal degeneration. PLoS Biology, 2022, 20, e3001649.	5.6	32

#	Article	IF	Citations
19	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. ELife, 2020, 9, .	6.0	31
20	Reconstruction From Multiple Particles for 3D Isotropic Resolution in Fluorescence Microscopy. IEEE Transactions on Medical Imaging, 2018, 37, 1235-1246.	8.9	15
21	The centriolar tubulin code. Seminars in Cell and Developmental Biology, 2023, 137, 16-25.	5.0	15
22	Improving the resolution of fluorescence nanoscopy using post-expansion labeling microscopy. Methods in Cell Biology, 2021, 161, 297-315.	1.1	12
23	Computational support for a scaffolding mechanism of centriole assembly. Scientific Reports, 2016, 6, 27075.	3.3	11
24	Isolation, cryotomography, and three-dimensional reconstruction of centrioles. Methods in Cell Biology, 2015, 129, 191-209.	1.1	7
25	Isolation and Fluorescence Imaging for Single-particle Reconstruction of Chlamydomonas Centrioles. Journal of Visualized Experiments, 2018, , .	0.3	7
26	Tuning SAS-6 architecture with monobodies impairs distinct steps of centriole assembly. Nature Communications, 2021, 12, 3805.	12.8	3