Virginie Hamel

List of Publications by Citations

30 papers	751 citations	15 h-index	27 g-index
49 ext. papers	1,173 ext. citations	11.1 avg, IF	4.38 L-index

#	Paper	IF	Citations
30	Imaging cellular ultrastructures using expansion microscopy (U-ExM). *Nature Methods*, **2019**, 16, 71-74	21.6	153
29	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. *Nature Communications*, **2017**, 8, 14813	17.4	60
28	Mechanisms of HsSAS-6 assembly promoting centriole formation in human cells. *Journal of Cell Biology*, **2014**, 204, 697-712	7.3	59
27	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. *Nature Cell Biology*, **2016**, 18, 393-403	23.4	55
26	A helical inner scaffold provides a structural basis for centriole cohesion. *Science Advances*, **2020**, 6, eaaz4137	14.3	54
25	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). *Nature Communications*, **2020**, 11, 3388	17.4	51
24	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. *Current Biology*, **2017**, 27, 2486-2498.e6	6.3	42
23	The Rise of the Cartwheel: Seeding the Centriole Organelle. *BioEssays*, **2018**, 40, e1700241	4.1	35
22	Correlative multicolor 3D SIM and STORM microscopy. *Biomedical Optics Express*, **2014**, 5, 3326-36	3.5	33
21	Essential function of the alveolin network in the subpellicular microtubules and conoid assembly in. *ELife*, **2020**, 9,	8.9	27
20	Flagellar microtubule doublet assembly in vitro reveals a regulatory role of tubulin C-terminal tails. *Science*, **2019**, 363, 285-288	33.3	23
19	Architecture of the centriole cartwheel-containing region revealed by cryo-electron tomography. *EMBO Journal*, **2020**, 39, e106246	13	22
18	Expansion microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid. *PLoS Biology*, **2021**, 19, e3001020	9.7	22
17	Overview of the centriole architecture. *Current Opinion in Structural Biology*, **2021**, 66, 58-65	8.1	19
16	Homogeneous multifocal excitation for high-throughput super-resolution imaging. *Nature Methods*, **2020**, 17, 726-733	21.6	18
15	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. *ELife*, **2020**, 9,	8.9	14
14	Ultrastructure expansion microscopy (U-ExM). *Methods in Cell Biology*, **2021**, 161, 57-81	1.8	14

List of Publications

13	Computational support for a scaffolding mechanism of centriole assembly. *Scientific Reports*, **2016**, 6, 27075	4.9	10
12	Reconstruction From Multiple Particles for 3D Isotropic Resolution in Fluorescence Microscopy. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1235-1246	11.7	7
11	Visualizing the native cellular organization by coupling cryofixation with expansion microscopy (Cryo-ExM).. *Nature Methods*, **2022**,	21.6	5
10	Isolation, cryotomography, and three-dimensional reconstruction of centrioles. *Methods in Cell Biology*, **2015**, 129, 191-209	1.8	4
9	Imaging beyond the super-resolution limits using ultrastructure expansion microscopy (UltraExM)		4
8	Isolation and Fluorescence Imaging for Single-particle Reconstruction of Chlamydomonas Centrioles. *Journal of Visualized Experiments*, **2018**,	1.6	4
7	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity		3
6	Expansion Microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid		3
5	The centriolar tubulin code.. *Seminars in Cell and Developmental Biology*, **2021**,	7.5	3
4	In situ architecture of the ciliary base reveals the stepwise assembly of IFT trains		2
3	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM)		2
2	Tuning SAS-6 architecture with monobodies impairs distinct steps of centriole assembly. *Nature Communications*, **2021**, 12, 3805	17.4	2
1	Improving the resolution of fluorescence nanoscopy using post-expansion labeling microscopy. *Methods in Cell Biology*, **2021**, 161, 297-315	1.8	0