

# Lucy M Collinson

## List of Publications by Citations

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123  
papers

5,255  
citations

42  
h-index

70  
g-index

142  
ext. papers

6,318  
ext. citations

10.5  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
123	Rab27a regulates the peripheral distribution of melanosomes in melanocytes. <i>Journal of Cell Biology</i> , <b>2001</b> , 152, 795-808	7.3	283
122	Exploring the third dimension: volume electron microscopy comes of age. <i>Micron</i> , <b>2014</b> , 61, 9-19	2.3	226
121	Human VPS34 is required for internal vesicle formation within multivesicular endosomes. <i>Journal of Cell Biology</i> , <b>2001</b> , 155, 1251-64	7.3	204
120	HIV-1 trafficking to the dendritic cell-T-cell infectious synapse uses a pathway of tetraspanin sorting to the immunological synapse. <i>Traffic</i> , <b>2005</b> , 6, 488-501	5.7	188
119	Constitutive sharing of recycling synaptic vesicles between presynaptic boutons. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 315-21	25.5	173
118	Autophagy initiation by ULK complex assembly on ER tubulovesicular regions marked by ATG9 vesicles. <i>Nature Communications</i> , <b>2016</b> , 7, 12420	17.4	172
117	Intravital imaging reveals transient changes in pigment production and Brn2 expression during metastatic melanoma dissemination. <i>Cancer Research</i> , <b>2009</b> , 69, 7969-77	10.1	162
116	eC-CLEM: flexible multidimensional registration software for correlative microscopies. <i>Nature Methods</i> , <b>2017</b> , 14, 102-103	21.6	152
115	Regulated and polarized PtdIns(3,4,5)P3 accumulation is essential for apical membrane morphogenesis in photoreceptor epithelial cells. <i>Current Biology</i> , <b>2006</b> , 16, 140-9	6.3	135
114	Functional redundancy of Rab27 proteins and the pathogenesis of Griscelli syndrome. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 247-257	15.9	132
113	The leaden gene product is required with Rab27a to recruit myosin Va to melanosomes in melanocytes. <i>Traffic</i> , <b>2002</b> , 3, 193-202	5.7	128
112	The physiological function of von Willebrand factor depends on its tubular storage in endothelial Weibel-Palade bodies. <i>Developmental Cell</i> , <b>2006</b> , 10, 223-32	10.2	110
111	Endothelial basement membrane limits tip cell formation by inducing Dll4/Notch signalling in vivo. <i>EMBO Reports</i> , <b>2011</b> , 12, 1135-43	6.5	109
110	Centralspindlin links the mitotic spindle to the plasma membrane during cytokinesis. <i>Nature</i> , <b>2012</b> , 492, 276-9	50.4	107
109	Asymmetric segregation of polarized antigen on B cell division shapes presentation capacity. <i>Science</i> , <b>2012</b> , 335, 475-9	33.3	106
108	Correlative and integrated light and electron microscopy of in-resin GFP fluorescence, used to localise diacylglycerol in mammalian cells. <i>Ultramicroscopy</i> , <b>2014</b> , 143, 3-14	3.1	98
107	Rad51 Paralogs Remodel Pre-synaptic Rad51 Filaments to Stimulate Homologous Recombination. <i>Cell</i> , <b>2015</b> , 162, 271-286	56.2	95

106	Imaging endosomes and autophagosomes in whole mammalian cells using correlative cryo-fluorescence and cryo-soft X-ray microscopy (cryo-CLXM). <i>Ultramicroscopy</i> , <b>2014</b> , 143, 77-87	3.1	92
105	Cell surface organization of stress-inducible proteins ULBP and MICA that stimulate human NK cells and T cells via NKG2D. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 199, 1005-10	16.6	91
104	The Hippo pathway regulates apical-domain size independently of its growth-control function. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 2360-70	5.3	90
103	A human genome-wide screen for regulators of clathrin-coated vesicle formation reveals an unexpected role for the V-ATPase. <i>Nature Cell Biology</i> , <b>2013</b> , 15, 50-60	23.4	88
102	The dystonia-associated protein torsinA modulates synaptic vesicle recycling. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 7568-79	5.4	85
101	An AP-1/clathrin coat plays a novel and essential role in forming the Weibel-Palade bodies of endothelial cells. <i>Journal of Cell Biology</i> , <b>2005</b> , 170, 627-36	7.3	85
100	Cryo-soft X-ray tomography: a journey into the world of the native-state cell. <i>Protoplasma</i> , <b>2014</b> , 251, 449-58	3.4	73
99	Targeting protein homeostasis in sporadic inclusion body myositis. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 331ra41	17.5	69
98	Subcellular antibiotic visualization reveals a dynamic drug reservoir in infected macrophages. <i>Science</i> , <b>2019</b> , 364, 1279-1282	33.3	67
97	High-pressure freezing provides insights into Weibel-Palade body biogenesis. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 2117-25	5.3	65
96	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 443001	3	63
95	3D correlative light and electron microscopy of cultured cells using serial blockface scanning electron microscopy. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 278-291	5.3	62
94	A switch from canonical to noncanonical autophagy shapes B cell responses. <i>Science</i> , <b>2017</b> , 355, 641-647	33.3	61
93	Functional redundancy of Rab27 proteins and the pathogenesis of Griscelli syndrome. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 247-57	15.9	61
92	replicates within necrotic human macrophages. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 583-594	7.3	60
91	The Hermansky-Pudlak syndrome 1 (HPS1) and HPS2 genes independently contribute to the production and function of platelet dense granules, melanosomes, and lysosomes. <i>Blood</i> , <b>2002</b> , 99, 1651-1658	2.2	57
90	Mitosis can drive cell cannibalism through entosis. <i>ELife</i> , <b>2017</b> , 6,	8.9	56
89	Imaging transient blood vessel fusion events in zebrafish by correlative volume electron microscopy. <i>PLoS ONE</i> , <b>2009</b> , 4, e7716	3.7	54

88	Acute manipulation of diacylglycerol reveals roles in nuclear envelope assembly & endoplasmic reticulum morphology. <i>PLoS ONE</i> , <b>2012</b> , 7, e51150	3.7	54
87	The regulation of platelet-dense granules by Rab27a in the ashken mouse, a model of Hermansky-Pudlak and Griscelli syndromes, is granule-specific and dependent on genetic background. <i>Blood</i> , <b>2002</b> , 100, 128-35	2.2	53
86	Lymphatic endothelial cells are a replicative niche for Mycobacterium tuberculosis. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 1093-108	15.9	53
85	Molecular Genetic Regulation of Slc30a8/ZnT8 Reveals a Positive Association With Glucose Tolerance. <i>Molecular Endocrinology</i> , <b>2016</b> , 30, 77-91		51
84	Cdc42 is a key regulator of B cell differentiation and is required for antiviral humoral immunity. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 53-72	16.6	51
83	Actomyosin drives cancer cell nuclear dysmorphia and threatens genome stability. <i>Nature Communications</i> , <b>2017</b> , 8, 16013	17.4	50
82	Correlative super-resolution fluorescence and electron microscopy using conventional fluorescent proteins in vacuo. <i>Journal of Structural Biology</i> , <b>2017</b> , 199, 120-131	3.4	44
81	Biological applications of cryo-soft X-ray tomography. <i>Journal of Microscopy</i> , <b>2014</b> , 255, 65-70	1.9	42
80	Clathrin potentiates vaccinia-induced actin polymerization to facilitate viral spread. <i>Cell Host and Microbe</i> , <b>2012</b> , 12, 346-59	23.4	38
79	Vps34 PI 3-kinase inactivation enhances insulin sensitivity through reprogramming of mitochondrial metabolism. <i>Nature Communications</i> , <b>2017</b> , 8, 1804	17.4	37
78	Membranous structures transfer cell surface proteins across NK cell immune synapses. <i>Traffic</i> , <b>2007</b> , 8, 1190-204	5.7	36
77	An ultrastructural readout of fluorescence recovery after photobleaching using correlative light and electron microscopy. <i>Nature Protocols</i> , <b>2006</b> , 1, 988-94	18.8	35
76	The Actinomyosin Motor Drives Malaria Parasite Red Blood Cell Invasion but Not Egress. <i>MBio</i> , <b>2018</b> , 9,	7.8	35
75	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. <i>Biomaterials</i> , <b>2019</b> , 194, 183-194	15.6	34
74	Modeling human neural functionality in vitro: three-dimensional culture for dopaminergic differentiation. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 654-68	3.9	33
73	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 841-5	17.6	33
72	An E2-F12 complex is required for intracellular enveloped virus morphogenesis during vaccinia infection. <i>Cellular Microbiology</i> , <b>2009</b> , 11, 808-24	3.9	32
71	In vitro reconstitution of fusion between immature autophagosomes and endosomes. <i>Autophagy</i> , <b>2009</b> , 5, 676-89	10.2	31

70	Engineering transplantable jejunal mucosal grafts using patient-derived organoids from children with intestinal failure. <i>Nature Medicine</i> , <b>2020</b> , 26, 1593-1601	50.5	31
69	The receptor DNCR-1 signals for phagosomal rupture to promote cross-presentation of dead-cell-associated antigens. <i>Nature Immunology</i> , <b>2021</b> , 22, 140-153	19.1	28
68	Origins of Enterovirus Replication Organelles Established by Whole-Cell Electron Microscopy. <i>MBio</i> , <b>2019</b> , 10,	7.8	27
67	A Polar and Nucleotide-Dependent Mechanism of Action for RAD51 Paralogs in RAD51 Filament Remodeling. <i>Molecular Cell</i> , <b>2016</b> , 64, 926-939	17.6	25
66	Towards native-state imaging in biological context in the electron microscope. <i>Journal of Chemical Biology</i> , <b>2009</b> , 3, 101-12		25
65	Integrated light and scanning electron microscopy of GFP-expressing cells. <i>Methods in Cell Biology</i> , <b>2014</b> , 124, 363-89	1.8	24
64	Cell-specific abnormal prenylation of Rab proteins in platelets and melanocytes of the gunmetal mouse. <i>British Journal of Haematology</i> , <b>2002</b> , 117, 414-23	4.5	24
63	Epithelial-Cell-Derived Phospholipase A Group 1B Is an Endogenous Anthelmintic. <i>Cell Host and Microbe</i> , <b>2017</b> , 22, 484-493.e5	23.4	22
62	The intracellular plasma membrane-connected compartment in the assembly of HIV-1 in human macrophages. <i>BMC Biology</i> , <b>2016</b> , 14, 50	7.3	22
61	Centriolar satellite- and hMsd1/SSX2IP-dependent microtubule anchoring is critical for centriole assembly. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 2005-19	3.5	19
60	Amorosia littoralis gen. sp. nov., a new genus and species name for the scorpinone and caffeine-producing hyphomycete from the littoral zone in The Bahamas. <i>Mycological Research</i> , <b>2006</b> , 110, 1371-8		19
59	ultraLM and miniLM: Locator tools for smart tracking of fluorescent cells in correlative light and electron microscopy. <i>Wellcome Open Research</i> , <b>2016</b> , 1, 26	4.8	18
58	Mitotic catenation is monitored and resolved by a PKC $\epsilon$ -regulated pathway. <i>Nature Communications</i> , <b>2014</b> , 5, 5685	17.4	17
57	YAP1/TAZ drives ependymoma-like tumour formation in mice. <i>Nature Communications</i> , <b>2020</b> , 11, 2380	17.4	16
56	Correlative cryo-fluorescence and cryo-soft X-ray tomography of adherent cells at European synchrotrons. <i>Methods in Cell Biology</i> , <b>2014</b> , 124, 151-78	1.8	16
55	Correlative light and volume electron microscopy: using focused ion beam scanning electron microscopy to image transient events in model organisms. <i>Methods in Cell Biology</i> , <b>2012</b> , 111, 357-82	1.8	16
54	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. <i>Nature Methods</i> , <b>2021</b> , 18, 1418-1422	21.6	16
53	Entosis Controls a Developmental Cell Clearance in <i>C. elegans</i> . <i>Cell Reports</i> , <b>2019</b> , 26, 3212-3220.e4	10.6	15

52	Standard fluorescent proteins as dual-modality probes for correlative experiments in an integrated light and electron microscope. <i>Journal of Chemical Biology</i> , <b>2015</b> , 8, 179-188		14
51	Evaluation of helper-dependent canine adenovirus vectors in a 3D human CNS model. <i>Gene Therapy</i> , <b>2016</b> , 23, 86-94	4	13
50	Correlative two-photon and serial block face scanning electron microscopy in neuronal tissue using 3D near-infrared branding maps. <i>Methods in Cell Biology</i> , <b>2017</b> , 140, 245-276	1.8	13
49	Marked and rapid effects of pharmacological HIF-2 antagonistism on hypoxic ventilatory control. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 2237-2251	15.9	13
48	Differential requirements for cyclase-associated protein (CAP) in actin-dependent processes of. <i>ELife</i> , <b>2019</b> , 8,	8.9	13
47	Altered expression and modification of proteases from an avirulent mutant of <i>Porphyromonas gingivalis</i> W50 (W50/BE1). <i>Microbiology (United Kingdom)</i> , <b>1998</b> , 144 ( Pt 9), 2487-2496	2.9	11
46	Enteric glia as a source of neural progenitors in adult zebrafish. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
45	Automated detection of fluorescent cells in in-resin fluorescence sections for integrated light and electron microscopy. <i>Journal of Microscopy</i> , <b>2018</b> , 271, 109-119	1.9	11
44	Correlating 3D light to 3D electron microscopy for systems biology. <i>Current Opinion in Biomedical Engineering</i> , <b>2017</b> , 3, 49-55	4.4	10
43	The Plasmodium falciparum rhoptry bulb protein RAMA plays an essential role in rhoptry neck morphogenesis and host red blood cell invasion. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1008049	7.6	10
42	Mycobacterium tuberculosis cords within lymphatic endothelial cells to evade host immunity. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	10
41	Autophagy modulates endothelial junctions to restrain neutrophil diapedesis during inflammation. <i>Immunity</i> , <b>2021</b> , 54, 1989-2004.e9	32.3	10
40	Segmentation and Modelling of the Nuclear Envelope of HeLa Cells Imaged with Serial Block Face Scanning Electron Microscopy. <i>Journal of Imaging</i> , <b>2019</b> , 5,	3.1	8
39	infection of human iPSC-derived macrophages reveals complex membrane dynamics during xenophagy evasion. <i>Journal of Cell Science</i> , <b>2020</b> , 134,	5.3	8
38	Deep learning for automatic segmentation of the nuclear envelope in electron microscopy data, trained with volunteer segmentations. <i>Traffic</i> , <b>2021</b> , 22, 240-253	5.7	8
37	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 1880-1891	6.3	7
36	The zebrafish as a novel model for the study of replication and interaction with macrophages. <i>DMM Disease Models and Mechanisms</i> , <b>2020</b> , 13,	4.1	6
35	A lipocalin mediates unidirectional heme biomineralization in malaria parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 16546-16556	11.5	6

34	Citizen science, cells and CNNs Deep learning for automatic segmentation of the nuclear envelope in electron microscopy data, trained with volunteer segmentations		6
33	Integrated Light and Electron Microscopy <b>2019</b> , 119-135		5
32	A radiochemical technique with potential for revealing novel fungal metabolites according to expression of specific biosynthetic activities. <i>Mycological Research</i> , <b>2008</b> , 112, 271-6		5
31	The malaria parasite sheddase SUB2 governs host red blood cell membrane sealing at invasion. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
30	Acute depletion of diacylglycerol from the -Golgi affects localized nuclear envelope morphology during mitosis. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 1402-1413	6.3	4
29	The Rnyi divergence enables accurate and precise cluster analysis for localization microscopy. <i>Bioinformatics</i> , <b>2018</b> , 34, 4102-4111	7.2	4
28	Principle of duality in phospholipids: regulators of membrane morphology and dynamics. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 1335-42	5.1	4
27	Adipose triglyceride lipase protects renal cell endocytosis in a Drosophila dietary model of chronic kidney disease. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001230	9.7	4
26	Functional and multiscale 3D structural investigation of brain tissue through correlative in vivo physiology, synchrotron microtomography and volume electron microscopy. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	4
25	Cryo-Correlative Light and Electron Microscopy <b>2019</b> , 137-153		3
24	Placing Molecules in a Cellular Context Using Light, Electron and X-Ray Microscopy. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 385-386	0.5	3
23	Human GBP1 differentially targets Salmonella and Toxoplasma to license recognition of microbial ligands and caspase-mediated death		3
22	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. <i>PLoS ONE</i> , <b>2020</b> , 15, e0230605	3.7	3
21	The Importance of Sample Processing for Correlative Imaging (or, Rubbish In, Rubbish Out) <b>2019</b> , 37-66		2
20	It's a Small, Small World <b>2019</b> , 1-21		2
19	Correlating Data from Imaging Modalities <b>2019</b> , 191-210		2
18	Automated Segmentation of HeLa Nuclear Envelope from Electron Microscopy Images. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 241-250	0.3	2
17	Functional and multiscale 3D structural investigation of brain tissue through correlative in vivo physiology, synchrotron micro-tomography and volume electron microscopy		2

16	Harnessing the Power of the Crowd for Bioimage Analysis. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1372-1373	1
15	3D CLEM <b>2019</b> , 67-79	1
14	Correlative Cryo Soft X-ray Imaging <b>2019</b> , 155-169	1
13	The malaria parasite sheddase SUB2 governs host red blood cell membrane sealing at invasion	1
12	Inhibition of protein N-myristoylation blocks Plasmodium falciparum intraerythrocytic development, egress and invasion. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001408	9.7 1
11	Mycobacterium tuberculosis cording in the cytosol of live lymphatic endothelial cells	1
10	In vivo control of Toxoplasma gondii by zebrafish macrophages	1
9	Adipose Triglyceride Lipase protects the endocytosis of renal cells on a high fat diet in Drosophila	1
8	Global analysis of putative phospholipases in the malaria parasite Plasmodium falciparum reveals critical factors for parasite proliferation	1
7	Can Correlative Microscopy Ever Be Easy? An Array Tomography Viewpoint <b>2019</b> , 81-98	0
6	Soft X-Ray Tomography: Filling the Gap Between Light and Electrons for Imaging Hydrated Biological Cells. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 986-987	0.5
5	Next Gen CLEM: super-accurate correlation and intelligent image acquisition <b>2016</b> , 995-996	
4	Smart Microscopy: Automation of CLEM using In situ Fluorescence Detection. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1018-1019	0.5
3	Big Data in Correlative Imaging <b>2019</b> , 211-222	
2	Cdc42 is a key regulator of B cell differentiation and is required for antiviral humoral immunity. <i>Journal of Cell Biology</i> , <b>2015</b> , 208, 208101A235	7.3
1	Correlative Light and Electron Microscopy (CLEM): Bringing Together the Best of Both Worlds to Study Neuronal Autophagy. <i>NeuroMethods</i> , <b>2022</b> , 135-147	0.4