Lucy M Collinson

List of Publications by Year
in descending order

108	7,151	46918 47	66788 78
papers	citations	h-index	g-index

142	142	142	12448
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rab27a Regulates the Peripheral Distribution of Melanosomes in Melanocytes. Journal of Cell Biology, 2001, 152, 795-808.	2.3	303
2	Exploring the third dimension: Volume electron microscopy comes of age. Micron, 2014, 61, 9-19.	1.1	292
3	eC-CLEM: flexible multidimensional registration software for correlative microscopies. Nature Methods, 2017, 14, 102-103.	9.0	255
4	Autophagy initiation by ULK complex assembly on ER tubulovesicular regions marked by ATG9 vesicles. Nature Communications, 2016, 7, 12420.	5.8	241
5	HIV-1 Trafficking to the Dendritic Cell-T-Cell Infectious Synapse Uses a Pathway of Tetraspanin Sorting to the Immunological Synapse. Traffic, 2005, 6, 488-501.	1.3	219
6	Human VPS34 is required for internal vesicle formation within multivesicular endosomes. Journal of Cell Biology, 2001, 155, 1251-1264.	2.3	216
7	Intravital Imaging Reveals Transient Changes in Pigment Production and Brn2 Expression during Metastatic Melanoma Dissemination. Cancer Research, 2009, 69, 7969-7977.	0.4	189
8	Constitutive sharing of recycling synaptic vesicles between presynaptic boutons. Nature Neuroscience, 2006, 9, 315-321.	7.1	186
9	Regulated and Polarized PtdIns(3,4,5)P3 Accumulation Is Essential for Apical Membrane Morphogenesis in Photoreceptor Epithelial Cells. Current Biology, 2006, 16, 140-149.	1.8	148
10	Asymmetric Segregation of Polarized Antigen on B Cell Division Shapes Presentation Capacity. Science, 2012, 335, 475-479.	6.0	144
11	Functional redundancy of Rab27 proteins and the pathogenesis of Griscelli syndrome. Journal of Clinical Investigation, 2002, 110, 247-257.	3.9	141
12	TheleadenGene Product Is Required with Rab27a to Recruit Myosin Va to Melanosomes in Melanocytes. Traffic, 2002, 3, 193-202.	1.3	140
13	The Physiological Function of von Willebrand's Factor Depends on Its Tubular Storage in Endothelial Weibel-Palade Bodies. Developmental Cell, 2006, 10, 223-232.	3.1	132
14	Centralspindlin links the mitotic spindle to the plasma membrane during cytokinesis. Nature, 2012, 492, 276-279.	13.7	131
15	Endothelial basement membrane limits tip cell formation by inducing Dll4/Notch signalling in vivo. EMBO Reports, 2011, 12, 1135-1143.	2.0	129
16	Rad51 Paralogs Remodel Pre-synaptic Rad51 Filaments to Stimulate Homologous Recombination. Cell, 2015, 162, 271-286.	13.5	128
17	Subcellular antibiotic visualization reveals a dynamic drug reservoir in infected macrophages. Science, 2019, 364, 1279-1282.	6.0	117
18	Correlative and integrated light and electron microscopy of in-resin GFP fluorescence, used to localise diacylglycerol in mammalian cells. Ultramicroscopy, 2014, 143, 3-14.	0.8	113

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19	Imaging endosomes and autophagosomes in whole mammalian cells using correlative cryo-fluorescence and cryo-soft X-ray microscopy (cryo-CLXM). Ultramicroscopy, 2014, 143, 77-87.	0.8	112
20	Mycobacterium tuberculosis replicates within necrotic human macrophages. Journal of Cell Biology, 2017, 216, 583-594.	2.3	105
21	The receptor DNGR-1 signals for phagosomal rupture to promote cross-presentation of dead-cell-associated antigens. Nature Immunology, 2021, 22, 140-153.	7.0	104
22	A human genome-wide screen for regulators of clathrin-coated vesicle formation reveals an unexpected role for the V-ATPase. Nature Cell Biology, 2013, 15, 50-60.	4.6	103
23	The Dystonia-associated Protein TorsinA Modulates Synaptic Vesicle Recycling. Journal of Biological Chemistry, 2008, 283, 7568-7579.	1.6	100
24	The Hippo pathway regulates apical-domain size independently of its growth-control function. Journal of Cell Science, 2009, 122, 2360-2370.	1.2	99
25	Targeting protein homeostasis in sporadic inclusion body myositis. Science Translational Medicine, 2016, 8, 331ra41.	5.8	99
26	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	1.3	99
27	An AP-1/clathrin coat plays a novel and essential role in forming the Weibel-Palade bodies of endothelial cells. Journal of Cell Biology, 2005, 170, 627-636.	2.3	97
28	Cell Surface Organization of Stress-inducible Proteins ULBP and MICA That Stimulate Human NK Cells and T Cells via NKG2D. Journal of Experimental Medicine, 2004, 199, 1005-1010.	4.2	96
29	Engineering transplantable jejunal mucosal grafts using patient-derived organoids from children with intestinal failure. Nature Medicine, 2020, 26, 1593-1601.	15.2	94
30	Cryo-soft X-ray tomography: a journey into the world of the native-state cell. Protoplasma, 2014, 251, 449-458.	1.0	88
31	A switch from canonical to noncanonical autophagy shapes B cell responses. Science, 2017, 355, 641-647.	6.0	88
32	Actomyosin drives cancer cell nuclear dysmorphia and threatens genome stability. Nature Communications, 2017, 8, 16013.	5.8	87
33	3D correlative light and electron microscopy of cultured cells using serial blockface scanning electron microscopy. Journal of Cell Science, 2017, 130, 278-291.	1.2	84
34	Mitosis can drive cell cannibalism through entosis. ELife, 2017, 6, .	2.8	82
35	High-pressure freezing provides insights into Weibel-Palade body biogenesis. Journal of Cell Science, 2007, 120, 2117-2125.	1.2	78
36	Lymphatic endothelial cells are a replicative niche for Mycobacterium tuberculosis. Journal of Clinical Investigation, 2016, 126, 1093-1108.	3.9	75

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37	Functional redundancy of Rab27 proteins and the pathogenesis of Griscelli syndrome. Journal of Clinical Investigation, 2002, 110, 247-257.	3.9	72
38	Cdc42 is a key regulator of B cell differentiation and is required for antiviral humoral immunity. Journal of Experimental Medicine, 2015, 212, 53-72.	4.2	71
39	Acute Manipulation of Diacylglycerol Reveals Roles in Nuclear Envelope Assembly & Endoplasmic Reticulum Morphology. PLoS ONE, 2012, 7, e51150.	1.1	64
40	The Actinomyosin Motor Drives Malaria Parasite Red Blood Cell Invasion but Not Egress. MBio, 2018, 9, .	1.8	63
41	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. Biomaterials, 2019, 194, 183-194.	5.7	63
42	REMBI: Recommended Metadata for Biological Imagesâ€"enabling reuse of microscopy data in biology. Nature Methods, 2021, 18, 1418-1422.	9.0	63
43	Imaging Transient Blood Vessel Fusion Events in Zebrafish by Correlative Volume Electron Microscopy. PLoS ONE, 2009, 4, e7716.	1.1	61
44	The regulation of platelet-dense granules by Rab27a in the ashen mouse, a model of Hermansky-Pudlak and Griscelli syndromes, is granule-specific and dependent on genetic background. Blood, 2002, 100, 128-135.	0.6	59
45	Molecular Genetic Regulation of Slc30a8/ZnT8 Reveals a Positive Association With Glucose Tolerance. Molecular Endocrinology, 2016, 30, 77-91.	3.7	59
46	Vps34 PI 3-kinase inactivation enhances insulin sensitivity through reprogramming of mitochondrial metabolism. Nature Communications, 2017, 8, 1804.	5.8	59
47	The Hermansky-Pudlak syndrome 1 (HPS1) and HPS2 genes independently contribute to the production and function of platelet dense granules, melanosomes, and lysosomes. Blood, 2002, 99, 1651-1658.	0.6	58
48	Correlative super-resolution fluorescence and electron microscopy using conventional fluorescent proteins in vacuo. Journal of Structural Biology, 2017, 199, 120-131.	1.3	55
49	Biological applications of cryoâ€soft Xâ€ray tomography. Journal of Microscopy, 2014, 255, 65-70.	0.8	54
50	Origins of Enterovirus Replication Organelles Established by Whole-Cell Electron Microscopy. MBio, 2019, 10, .	1.8	51
51	Autophagy modulates endothelial junctions to restrain neutrophil diapedesis during inflammation. Immunity, 2021, 54, 1989-2004.e9.	6.6	50
52	A 3D cellular context for the macromolecular world. Nature Structural and Molecular Biology, 2014, 21, 841-845.	3.6	47
53	Volume electron microscopy. Nature Reviews Methods Primers, 2022, 2, .	11.8	46
54	Clathrin Potentiates Vaccinia-Induced Actin Polymerization to Facilitate Viral Spread. Cell Host and Microbe, 2012, 12, 346-359.	5.1	44

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55	Modeling Human Neural Functionality In Vitro: Three-Dimensional Culture for Dopaminergic Differentiation. Tissue Engineering - Part A, 2015, 21, 654-668.	1.6	44
56	Membranous Structures Transfer Cell Surface Proteins Across NK Cell Immune Synapses. Traffic, 2007, 8, 1190-1204.	1.3	43
57	A Polar and Nucleotide-Dependent Mechanism of Action for RAD51 Paralogs in RAD51 Filament Remodeling. Molecular Cell, 2016, 64, 926-939.	4.5	43
58	Differential requirements for cyclase-associated protein (CAP) in actin-dependent processes of Toxoplasma gondii. ELife, 2019, 8, .	2.8	43
59	An ultrastructural readout of fluorescence recovery after photobleaching using correlative light and electron microscopy. Nature Protocols, 2006, 1, 988-994.	5.5	41
60	Epithelial-Cell-Derived Phospholipase A 2 Group 1B Is an Endogenous Anthelmintic. Cell Host and Microbe, 2017, 22, 484-493.e5.	5.1	41
61	An E2-F12 complex is required for intracellular enveloped virus morphogenesis during vaccinia infection. Cellular Microbiology, 2009, 11, 808-824.	1.1	39
62	Enteric glia as a source of neural progenitors in adult zebrafish. ELife, 2020, 9, .	2.8	39
63	In vitro reconstitution of fusion between immature autophagosomes and endosomes. Autophagy, 2009, 5, 676-689.	4.3	37
64	The intracellular plasma membrane-connected compartment in the assembly of HIV-1 in human macrophages. BMC Biology, 2016, 14, 50.	1.7	37
65	Deep learning for automatic segmentation of the nuclear envelope in electron microscopy data, trained with volunteer segmentations. Traffic, 2021, 22, 240-253.	1.3	34
66	M. tuberculosisinfection of human iPSDM reveals complex membrane dynamics during xenophagy evasion. Journal of Cell Science, 2020, 134, .	1.2	33
67	YAP1/TAZ drives ependymoma-like tumour formation in mice. Nature Communications, 2020, 11, 2380.	5.8	32
68	Marked and rapid effects of pharmacological HIF-2Î± antagonism on hypoxic ventilatory control. Journal of Clinical Investigation, 2020, 130, 2237-2251.	3.9	32
69	Centriolar satelliteâ€“ and hMsd1/SSX2IP-dependent microtubule anchoring is critical for centriole assembly. Molecular Biology of the Cell, 2015, 26, 2005-2019.	0.9	31
70	Towards native-state imaging in biological context in the electron microscope. Journal of Chemical Biology, 2010, 3, 101-112.	2.2	30
71	Mycobacterium tuberculosis cords within lymphatic endothelial cells to evade host immunity. JCI Insight, 2020, 5, .	2.3	28
72	Integrated Light and Scanning Electron Microscopy of GFP-Expressing Cells. Methods in Cell Biology, 2014, 124, 363-389.	0.5	27

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73	Cell-specific abnormal prenylation of Rab proteins in platelets and melanocytes of the gunmetal mouse. British Journal of Haematology, 2002, 117, 414-423.	1.2	26
74	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. Mycological Research, 2006, 110, 1371-1378.	2.5	26
75	Adipose triglyceride lipase protects renal cell endocytosis in a Drosophila dietary model of chronic kidney disease. PLoS Biology, 2021, 19, e3001230.	2.6	26
76	Entosis Controls a Developmental Cell Clearance in C.Âelegans. Cell Reports, 2019, 26, 3212-3220.e4.	2.9	25
77	A lipocalin mediates unidirectional heme biomineralization in malaria parasites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16546-16556.	3.3	24
78	ultraLM and miniLM: Locator tools for smart tracking of fluorescent cells in correlative light and electron microscopy. Wellcome Open Research, 2016, 1, 26.	0.9	22
79	Correlative Cryo-Fluorescence and Cryo-Soft X-Ray Tomography of Adherent Cells at European Synchrotrons. Methods in Cell Biology, 2014, 124, 151-178.	0.5	21
80	Mitotic catenation is monitored and resolved by a PKCÎµ-regulated pathway. Nature Communications, 2014, 5, 5685.	5.8	21
81	The Plasmodium falciparum rhoptry bulb protein RAMA plays an essential role in rhoptry neck morphogenesis and host red blood cell invasion. PLoS Pathogens, 2019, 15, e1008049.	2.1	20
82	Correlative Light and Volume Electron Microscopy. Methods in Cell Biology, 2012, 111, 357-382.	0.5	19
83	Correlative two-photon and serial block face scanning electron microscopy in neuronal tissue using 3D near-infrared branding maps. Methods in Cell Biology, 2017, 140, 245-276.	0.5	19
84	Altered expression and modification of proteases from an avirulent mutant of Porphyromonas gingivalis W50 (W50/BE1). Microbiology (United Kingdom), 1998, 144, 2487-2496.	0.7	17
85	Segmentation and Modelling of the Nuclear Envelope of HeLa Cells Imaged with Serial Block Face Scanning Electron Microscopy. Journal of Imaging, 2019, 5, 75.	1.7	17
86	Functional and multiscale 3D structural investigation of brain tissue through correlative in vivo physiology, synchrotron microtomography and volume electron microscopy. Nature Communications, 2022, 13, .	5.8	17
87	The zebrafish as a novel model for thein vivostudy ofToxoplasma gondiireplication and interaction with macrophages. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	16
88	Standard fluorescent proteins as dual-modality probes for correlative experiments in an integrated light and electron microscope. Journal of Chemical Biology, 2015, 8, 179-188.	2.2	15
89	Evaluation of helper-dependent canine adenovirus vectors in a 3D human CNS model. Gene Therapy, 2016, 23, 86-94.	2.3	15
90	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. PLoS ONE, 2020, 15, e0230605.	1.1	15

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91	Automated detection of fluorescent cells in inâ€resin fluorescence sections for integrated light and electron microscopy. Journal of Microscopy, 2018, 271, 109-119.	0.8	14
92	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. Journal of Lipid Research, 2019, 60, 1880-1891.	2.0	14
93	Correlating 3D light to 3D electron microscopy for systems biology. Current Opinion in Biomedical Engineering, 2017, 3, 49-55.	1.8	13
94	The malaria parasite sheddase SUB2 governs host red blood cell membrane sealing at invasion. ELife, 2020, 9, .	2.8	13
95	Inhibition of protein N-myristoylation blocks Plasmodium falciparum intraerythrocytic development, egress and invasion. PLoS Biology, 2021, 19, e3001408.	2.6	13
96	Principle of duality in phospholipids: regulators of membrane morphology and dynamics. Biochemical Society Transactions, 2014, 42, 1335-1342.	1.6	6
97	Acute depletion of diacylglycerol from the cis-Golgi affects localized nuclear envelope morphology during mitosis. Journal of Lipid Research, 2018, 59, 1402-1413.	2.0	6
98	A radiochemical technique with potential for revealing novel fungal metabolites according to expression of specific biosynthetic activities. Mycological Research, 2008, 112, 271-276.	2.5	5
99	Probing the future of correlative microscopy. Journal of Chemical Biology, 2015, 8, 127-128.	2.2	5
100	The RÃ©nyi divergence enables accurate and precise cluster analysis for localization microscopy. Bioinformatics, 2018, 34, 4102-4111.	1.8	5
101	Placing Molecules in a Cellular Context Using Light, Eelectron and X-Ray Microscopy. Microscopy and Microanalysis, 2015, 21, 385-386.	0.2	3
102	Automated Segmentation of HeLa Nuclear Envelope from Electron Microscopy Images. Communications in Computer and Information Science, 2018, , 241-250.	0.4	3
103	Harnessing the Power of the Crowd for Bioimage Analysis. Microscopy and Microanalysis, 2019, 25, 1372-1373.	0.2	2
104	Regulated and Polarized PtdIns(3,4,5)P3 Accumulation Is Essential for Apical Membrane Morphogenesis in Photoreceptor Epithelial Cells. Current Biology, 2006, 16, 332.	1.8	0
105	Soft X-Ray Tomography: Filling the Gap Between Light and Electrons for Imaging Hydrated Biological Cells. Microscopy and Microanalysis, 2017, 23, 986-987.	0.2	0
106	Smart Microscopy: Automation of CLEM using In situ Fluorescence Detection. Microscopy and Microanalysis, 2019, 25, 1018-1019.	0.2	0
107	Correlative Light and Electron Microscopy (CLEM): Bringing Together the Best of Both Worlds to Study Neuronal Autophagy. Neuromethods, 2022, , 135-147.	0.2	0
108	Cdc42 is a key regulator of B cell differentiation and is required for antiviral humoral immunity. Journal of Cell Biology, 2015, 208, 2081OIA235.	2.3	0