

Lucas Pelkmans

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

7,353
citations

172207

29
h-index

233125

45
g-index

61
all docs

61
docs citations

61
times ranked

9628
citing authors

#	ARTICLE	IF	CITATIONS
1	Caveolar endocytosis of simian virus 40 reveals a new two-step vesicular-transport pathway to the ER. <i>Nature Cell Biology</i> , 2001, 3, 473-483.	4.6	1,158
2	Local Actin Polymerization and Dynamin Recruitment in SV40-Induced Internalization of Caveolae. <i>Science</i> , 2002, 296, 535-539.	6.0	648
3	Genome-wide analysis of human kinases in clathrin- and caveolae/raft-mediated endocytosis. <i>Nature</i> , 2005, 436, 78-86.	13.7	580
4	Caveolin-Stabilized Membrane Domains as Multifunctional Transport and Sorting Devices in Endocytic Membrane Traffic. <i>Cell</i> , 2004, 118, 767-780.	13.5	470
5	Population context determines cell-to-cell variability in endocytosis and virus infection. <i>Nature</i> , 2009, 461, 520-523.	13.7	371
6	Multiplexed protein maps link subcellular organization to cellular states. <i>Science</i> , 2018, 361, .	6.0	350
7	Coronavirus Cell Entry Occurs through the Endo-/Lysosomal Pathway in a Proteolysis-Dependent Manner. <i>PLoS Pathogens</i> , 2014, 10, e1004502.	2.1	338
8	Control of Transcript Variability in Single Mammalian Cells. <i>Cell</i> , 2015, 163, 1596-1610.	13.5	332
9	Insider information: what viruses tell us about endocytosis. <i>Current Opinion in Cell Biology</i> , 2003, 15, 414-422.	2.6	312
10	Kinase-regulated quantal assemblies and kiss-and-run recycling of caveolae. <i>Nature</i> , 2005, 436, 128-133.	13.7	312
11	Kinase-controlled phase transition of membraneless organelles in mitosis. <i>Nature</i> , 2018, 559, 211-216.	13.7	296
12	Image-based transcriptomics in thousands of single human cells at single-molecule resolution. <i>Nature Methods</i> , 2013, 10, 1127-1133.	9.0	253
13	Secrets of caveolae- and lipid raft-mediated endocytosis revealed by mammalian viruses. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1746, 295-304.	1.9	154
14	Single-cell analysis of population context advances RNAi screening at multiple levels. <i>Molecular Systems Biology</i> , 2012, 8, 579.	3.2	153
15	Using Cell-to-Cell Variabilityâ€™ A New Era in Molecular Biology. <i>Science</i> , 2012, 336, 425-426.	6.0	153
16	Large Scale RNAi Reveals the Requirement of Nuclear Envelope Breakdown for Nuclear Import of Human Papillomaviruses. <i>PLoS Pathogens</i> , 2014, 10, e1004162.	2.1	135
17	Passive Noise Filtering by Cellular Compartmentalization. <i>Cell</i> , 2016, 164, 1151-1161.	13.5	100
18	Trajectories of cell-cycle progression from fixed cell populations. <i>Nature Methods</i> , 2015, 12, 951-954.	9.0	97

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19	A Hierarchical Map of Regulatory Genetic Interactions in Membrane Trafficking. <i>Cell</i> , 2014, 157, 1473-1487.	13.5	93
20	A Systems-Level Study Reveals Regulators of Membrane-less Organelles in Human Cells. <i>Molecular Cell</i> , 2018, 72, 1035-1049.e5.	4.5	93
21	Cell-intrinsic adaptation of lipid composition to local crowding drives social behaviour. <i>Nature</i> , 2015, 523, 88-91.	13.7	88
22	CellClassifier: supervised learning of cellular phenotypes. <i>Bioinformatics</i> , 2009, 25, 3028-3030.	1.8	81
23	Single-cell and multivariate approaches in genetic perturbation screens. <i>Nature Reviews Genetics</i> , 2015, 16, 18-32.	7.7	80
24	The Tumor Profiler Study: integrated, multi-omic, functional tumor profiling for clinical decision support. <i>Cancer Cell</i> , 2021, 39, 288-293.	7.7	71
25	Large-scale image-based profiling of single-cell phenotypes in arrayed CRISPR-Cas9 gene perturbation screens. <i>Molecular Systems Biology</i> , 2018, 14, e8064.	3.2	56
26	Hypertonic Stress Causes Cytoplasmic Translocation of Neuronal, but Not Astrocytic, FUS due to Impaired Transportin Function. <i>Cell Reports</i> , 2018, 24, 987-1000.e7.	2.9	49
27	Wnt directs the endosomal flux of LDL-derived cholesterol and lipid droplet homeostasis. <i>EMBO Reports</i> , 2015, 16, 741-752.	2.0	43
28	Non-specific adhesive forces between filaments and membraneless organelles. <i>Nature Physics</i> , 2022, 18, 571-578.	6.5	41
29	Protein Kinases: Starting a Molecular Systems View of Endocytosis. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 501-523.	4.0	38
30	Viruses as probes for systems analysis of cellular signalling, cytoskeleton reorganization and endocytosis. <i>Current Opinion in Microbiology</i> , 2005, 8, 331-337.	2.3	37
31	SCIM: universal single-cell matching with unpaired feature sets. <i>Bioinformatics</i> , 2020, 36, i919-i927.	1.8	37
32	Multimodal perception links cellular state to decision-making in single cells. <i>Science</i> , 2022, 377, 642-648.	6.0	35
33	Computer vision for image-based transcriptomics. <i>Methods</i> , 2015, 85, 44-53.	1.9	33
34	Lessons from genetics: interpreting complex phenotypes in RNAi screens. <i>Current Opinion in Cell Biology</i> , 2008, 20, 483-489.	2.6	29
35	A Systems Survey of Progressive Host-Cell Reorganization during Rotavirus Infection. <i>Cell Host and Microbe</i> , 2016, 20, 107-120.	5.1	29
36	Mechanisms of cellular mRNA transcript homeostasis. <i>Trends in Cell Biology</i> , 2022, 32, 655-668.	3.6	27

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37	Feedback from nuclear RNA on transcription promotes robust RNA concentration homeostasis in human cells. <i>Cell Systems</i> , 2022, 13, 454-470.e15.	2.9	25
38	Multivariate Control of Transcript to Protein Variability in Single Mammalian Cells. <i>Cell Systems</i> , 2018, 7, 398-411.e6.	2.9	24
39	Modifiers of prion protein biogenesis and recycling identified by a highly parallel endocytosis kinetics assay. <i>Journal of Biological Chemistry</i> , 2017, 292, 8356-8368.	1.6	19
40	Post-transcriptional control of executioner caspases by RNA-binding proteins. <i>Genes and Development</i> , 2016, 30, 2213-2225.	2.7	15
41	Characterization of the neurogenic niche in the aging dentate gyrus using iterative immunofluorescence imaging. <i>ELife</i> , 2022, 11, .	2.8	14
42	<scp>KCML</scp> : a machineâ€learning framework for inference of multiâ€scale gene functions from genetic perturbation screens. <i>Molecular Systems Biology</i> , 2020, 16, e9083.	3.2	11
43	High content genome-wide siRNA screen to investigate the coordination of cell size and RNA production. <i>Scientific Data</i> , 2021, 8, 162.	2.4	9
44	Liquid droplets in the skin. <i>Science</i> , 2020, 367, 1193-1194.	6.0	5