

# Roy Wollman

## List of Publications by Citations

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37  
papers

2,375  
citations

19  
h-index

45  
g-index

45  
ext. papers

2,847  
ext. citations

13.2  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
37	Genes required for mitotic spindle assembly in <i>Drosophila</i> S2 cells. <i>Science</i> , <b>2007</b> , 316, 417-21	33.3	446
36	A genome-wide siRNA screen reveals diverse cellular processes and pathways that mediate genome stability. <i>Molecular Cell</i> , <b>2009</b> , 35, 228-39	17.6	402
35	Systems biology. Accurate information transmission through dynamic biochemical signaling networks. <i>Science</i> , <b>2014</b> , 346, 1370-3	33.3	230
34	Length control of the metaphase spindle. <i>Current Biology</i> , <b>2005</b> , 15, 1979-88	6.3	208
33	The effect of individual variation on the structure and function of interaction networks in harvester ants. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1562-73	4.1	116
32	A homotetrameric kinesin-5, KLP61F, bundles microtubules and antagonizes Ncd in motility assays. <i>Current Biology</i> , <b>2006</b> , 16, 2293-302	6.3	106
31	Cell polarity: quantitative modeling as a tool in cell biology. <i>Science</i> , <b>2012</b> , 336, 175-9	33.3	99
30	Quantitative modeling in cell biology: what is it good for?. <i>Developmental Cell</i> , <b>2006</b> , 11, 279-87	10.2	99
29	Spatial positive feedback at the onset of mitosis. <i>Cell</i> , <b>2012</b> , 149, 1500-13	56.2	93
28	Modeling mitosis. <i>Trends in Cell Biology</i> , <b>2006</b> , 16, 88-96	18.3	79
27	Computer simulations predict that chromosome movements and rotations accelerate mitotic spindle assembly without compromising accuracy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 15708-13	11.5	76
26	High throughput microscopy: from raw images to discoveries. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 3715-22	5.3	76
25	Prometaphase spindle maintenance by an antagonistic motor-dependent force balance made robust by a disassembling lamin-B envelope. <i>Journal of Cell Biology</i> , <b>2010</b> , 188, 49-68	7.3	55
24	Reverse engineering of force integration during mitosis in the <i>Drosophila</i> embryo. <i>Molecular Systems Biology</i> , <b>2008</b> , 4, 195	12.2	52
23	Paracrine communication maximizes cellular response fidelity in wound signaling. <i>ELife</i> , <b>2015</b> , 4, e096528	9.9	33
22	Distinct cellular states determine calcium signaling response. <i>Molecular Systems Biology</i> , <b>2016</b> , 12, 894	12.2	32
21	The lysosomal GPCR-like protein GPR137B regulates Rag and mTORC1 localization and activity. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 614-626	23.4	20

20	Limited specificity of IRF3 and ISGF3 in the transcriptional innate-immune response to double-stranded RNA. <i>Journal of Leukocyte Biology</i> , <b>2015</b> , 98, 119-28	6.5	20
19	The Effect of Keystone Individuals on Collective Outcomes Can Be Mediated through Interactions or Behavioral Persistence. <i>American Naturalist</i> , <b>2016</b> , 188, 240-52	3.7	19
18	Wound-induced Ca wave propagates through a simple release and diffusion mechanism. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 1457-1466	3.5	18
17	Mammalian gene expression variability is explained by underlying cell state. <i>Molecular Systems Biology</i> , <b>2020</b> , 16, e9146	12.2	17
16	Pierced Lasso Topology Controls Function in Leptin. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 706-718	3.4	16
15	Signal Transduction at the Single-Cell Level: Approaches to Study the Dynamic Nature of Signaling Networks. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 3669-82	6.5	15
14	Robustness, Accuracy, and Cell State Heterogeneity in Biological Systems. <i>Current Opinion in Systems Biology</i> , <b>2018</b> , 8, 46-50	3.2	9
13	Joint cell segmentation and cell type annotation for spatial transcriptomics. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10108	12.2	8
12	Information transmission from NFkB signaling dynamics to gene expression. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008011	5	6
11	Loci specific epigenetic drug sensitivity. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 4797-4810	20.1	5
10	Quantifying information accumulation encoded in the dynamics of biochemical signaling. <i>Nature Communications</i> , <b>2021</b> , 12, 1272	17.4	5
9	Mammalian gene expression variability is explained by underlying cell state		4
8	Bridging scales: From cell biology to physiology using in situ single-cell technologies. <i>Cell Systems</i> , <b>2021</b> , 12, 388-400	10.6	3
7	Development. Counting the ways to decode dynamic signals. <i>Science</i> , <b>2014</b> , 343, 1326-7	33.3	2
6	An incoherent feedforward loop interprets NFB/RelA dynamics to determine TNF-induced necroptosis decisions. <i>Molecular Systems Biology</i> , <b>2020</b> , 16, e9677	12.2	2
5	TNF controls a speed-accuracy tradeoff in the cell death decision to restrict viral spread. <i>Nature Communications</i> , <b>2021</b> , 12, 2992	17.4	2
4	Loci specific epigenetic drug sensitivity		1
3	Identifying chromatin features that regulate gene expression distribution. <i>Scientific Reports</i> , <b>2020</b> , 10, 20566	4.9	0

2 Single-Molecule Threshold of HIV Fate Decision. *Biophysical Journal*, **2017**, 112, 2247-2248 2.9

1 Cellular Variability and Information Flow in Signal Transduction Networks. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY33-1 0