Jason R Swedlow

List of Publications by Year in Descending Order

110 papers	7,506 citations	41 h-index	86 g-index
139 ext. papers	8,635 ext. citations	12.2 avg, IF	5.61 L-index

#	Paper	IF	Citations
110	The BioImage Archive - building a home for life-sciences microscopy data.. *Journal of Molecular Biology*, **2022**, 167505	6.5	3
109	MITI minimum information guidelines for highly multiplexed tissue images.. *Nature Methods*, **2022**, 19, 262-267	21.6	2
108	OME-NGFF: a next-generation file format for expanding bioimaging data-access strategies. *Nature Methods*, **2021**, 18, 1496-1498	21.6	13
107	A global view of standards for open image data formats and repositories. *Nature Methods*, **2021**, 18, 1440-1446	21.6	18
106	REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. *Nature Methods*, **2021**, 18, 1418-1422	21.6	16
105	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. *Nature Methods*, **2021**, 18, 1423-1426	21.6	18
104	ISO 23494: Biotechnology Provenance Information Model for Biological Specimen And Data. *Lecture Notes in Computer Science*, **2021**, 222-225	0.9	2
103	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. *Journal of Microscopy*, **2021**, 284, 56-73	1.9	11
102	Numerically Enhanced Stimulated Emission Depletion Microscopy with Adaptive Optics for Deep-Tissue Super-Resolved Imaging. *ACS Nano*, **2020**, 14, 394-405	16.7	12
101	Community standards for open cell migration data. *GigaScience*, **2020**, 9,	7.6	9
100	Bringing Open Data to Whole Slide Imaging. *Lecture Notes in Computer Science*, **2019**, 2019, 3-10	0.9	11
99	Big Data in Correlative Imaging **2019**, 211-222		
98	Full volume super-resolution imaging of thick mitotic spindle using 3D AO STED microscope. *Biomedical Optics Express*, **2019**, 10, 1999-2009	3.5	17
97	Killing with proficiency: Integrated post-translational regulation of an offensive Type VI secretion system. *PLoS Pathogens*, **2018**, 14, e1007230	7.6	12
96	A call for public archives for biological image data. *Nature Methods*, **2018**, 15, 849-854	21.6	61
95	Visualization of Biomedical Data. *Annual Review of Biomedical Data Science*, **2018**, 1, 275-304	5.6	34
94	The Image Data Resource: A Bioimage Data Integration and Publication Platform. *Nature Methods*, **2017**, 14, 775-781	21.6	130

93	The Ndc80 complex targets Bod1 to human mitotic kinetochores. *Open Biology*, **2017**, 7,	7	7
92	The Open Microscopy Environment: open image informatics for the biological sciences **2016**,		1
91	Metadata management for high content screening in OMERO. *Methods*, **2016**, 96, 27-32	4.6	23
90	CDK-dependent phosphorylation of PHD1 on serine 130 alters its substrate preference in cells. *Journal of Cell Science*, **2016**, 129, 191-205	5.3	13
89	BOD1 Is Required for Cognitive Function in Humans and Drosophila. *PLoS Genetics*, **2016**, 12, e1006022	6	15
88	Publishing and sharing multi-dimensional image data with OMERO. *Mammalian Genome*, **2015**, 26, 441-7	3.2	20
87	OMERO and Bio-Formats 5: flexible access to large bioimaging datasets at scale **2015**,		3
86	An open data ecosystem for cell migration research. *Trends in Cell Biology*, **2015**, 25, 55-8	18.3	21
85	Phosphorylated DegU manipulates cell fate differentiation in the Bacillus subtilis biofilm. *Journal of Bacteriology*, **2014**, 196, 16-27	3.5	40
84	Analysis of global RNA synthesis at the single cell level following hypoxia. *Journal of Visualized Experiments*, **2014**,	1.6	2
83	A 3D cellular context for the macromolecular world. *Nature Structural and Molecular Biology*, **2014**, 21, 841-5	17.6	33
82	Quantitative fluorescence microscopy and image deconvolution. *Methods in Cell Biology*, **2013**, 114, 407-26		29
81	Quantitative analysis of digital microscope images. *Methods in Cell Biology*, **2013**, 114, 337-67	1.8	6
80	At the (kineto)chore, yeast really are like people. *Cell*, **2013**, 154, 959-961	56.2	
79	PHD1 links cell-cycle progression to oxygen sensing through hydroxylation of the centrosomal protein Cep192. *Developmental Cell*, **2013**, 26, 381-92	10.2	57
78	Web-based visualisation and analysis of 3D electron-microscopy data from EMDB and PDB. *Journal of Structural Biology*, **2013**, 184, 173-81	3.4	23
77	Bod1 regulates protein phosphatase 2A at mitotic kinetochores. *Nature Communications*, **2013**, 4, 2677	17.4	58
76	Ubiquitylation-dependent localization of PLK1 in mitosis. *Nature Cell Biology*, **2013**, 15, 430-9	23.4	70

75	OMERO: flexible, model-driven data management for experimental biology. *Nature Methods*, **2012**, 9, 245-53	21.6	313
74	Software tools, data structures, and interfaces for microscope imaging. *Cold Spring Harbor Protocols*, **2012**, 2012, 50-61	1.2	8
73	The adenomatous polyposis coli protein contributes to normal compaction of mitotic chromatin. *PLoS ONE*, **2012**, 7, e38102	3.7	10
72	High-resolution live imaging of cell behavior in the developing neuroepithelium. *Journal of Visualized Experiments*, **2012**,	1.6	10
71	Biological imaging software tools. *Nature Methods*, **2012**, 9, 697-710	21.6	377
70	Innovation in biological microscopy: current status and future directions. *BioEssays*, **2012**, 34, 333-40	4.1	26
69	Data management challenges in three-dimensional EM. *Nature Structural and Molecular Biology*, **2012**, 19, 1203-7	17.6	34
68	Fixation of Drosophila tissues for immunofluorescence. *Cold Spring Harbor Protocols*, **2011**, 2011, 931-4	1.2	3
67	Finding an image in a haystack: the case for public image repositories. *Nature Cell Biology*, **2011**, 13, 183	23.4	8
66	How to be a mitotic chromosome. *Chromosome Research*, **2011**, 19, 307-19	4.4	21
65	A novel reporter of notch signalling indicates regulated and random Notch activation during vertebrate neurogenesis. *BMC Biology*, **2011**, 9, 58	7.3	31
64	Immunolabeling of Drosophila embryos and tissues. *Cold Spring Harbor Protocols*, **2011**, 2011, 998-1002	1.2	3
63	OMX: a new platform for multimodal, multichannel wide-field imaging. *Cold Spring Harbor Protocols* , **2011**, 2011, 899-909	1.2	32
62	Sds22 regulates aurora B activity and microtubule-kinetochore interactions at mitosis. *Journal of Cell Biology*, **2010**, 191, 61-74	7.3	101
61	Kinetochore alignment within the metaphase plate is regulated by centromere stiffness and microtubule depolymerases. *Journal of Cell Biology*, **2010**, 188, 665-79	7.3	106
60	Advanced hardware and software tools for fast multidimensional imaging of living cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16005-6	11.5	7
59	Metadata matters: access to image data in the real world. *Journal of Cell Biology*, **2010**, 189, 777-82	7.3	544
58	The Nup107-160 nucleoporin complex promotes mitotic events via control of the localization state of the chromosome passenger complex. *Molecular Biology of the Cell*, **2009**, 20, 5260-75	3.5	64

57	Open source bioimage informatics for cell biology. *Trends in Cell Biology*, **2009**, 19, 656-60	18.3	43
56	Usability and User-Centered Design in Scientific Software Development. *IEEE Software*, **2009**, 26, 96-102	1.5	24
55	In vivo imaging of mammalian cells: cell engineering and viability. *Cold Spring Harbor Protocols*, **2009**, 2009, pdb.ip69	1.2	1
54	In vivo imaging of mammalian cells: image acquisition and analysis. *Cold Spring Harbor Protocols*, **2009**, 2009, pdb.ip70	1.2	2
53	Bioimage informatics for experimental biology. *Annual Review of Biophysics*, **2009**, 38, 327-46	21.1	82
52	Building a scientific data grid with DiGS. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2009**, 367, 2471-81	3	1
51	Minimum information specification for in situ hybridization and immunohistochemistry experiments (MISFISHIE). *Nature Biotechnology*, **2008**, 26, 305-12	44.5	97
50	Temporal profiling of the chromatin proteome reveals system-wide responses to replication inhibition. *Current Biology*, **2008**, 18, 838-43	6.3	32
49	Open tools for storage and management of quantitative image data. *Methods in Cell Biology*, **2008**, 85, 555-70	1.8	24
48	Open File Formats for High Content Analysis **2008**, 317-328		
47	Evaluating performance in three-dimensional fluorescence microscopy. *Journal of Microscopy*, **2007**, 228, 390-405	1.9	99
46	ELYS/MEL-28 chromatin association coordinates nuclear pore complex assembly and replication licensing. *Current Biology*, **2007**, 17, 1657-62	6.3	110
45	Phosphorylation by aurora-B negatively regulates survivin function during mitosis. *Cell Cycle*, **2007**, 6, 1220-30	4.7	45
44	Mitotic spindle orientation distinguishes stem cell and terminal modes of neuron production in the early spinal cord. *Development (Cambridge)*, **2007**, 134, 1943-54	6.6	79
43	Bod1, a novel kinetochore protein required for chromosome biorientation. *Journal of Cell Biology*, **2007**, 179, 187-97	7.3	44
42	Quantitative fluorescence microscopy and image deconvolution. *Methods in Cell Biology*, **2007**, 81, 447-65	1.8	39
41	Quantitative analysis of digital microscope images. *Methods in Cell Biology*, **2007**, 81, 365-96	1.8	39
40	The Open Microscopy Environment: A Collaborative Data Modeling and Software Development Project for Biological Image Informatics. *Principles and Practice*, **2007**, 71-92		4

39	Development of the Minimum Information Specification for In Situ Hybridization and Immunohistochemistry Experiments (MISFISHIE). *OMICS A Journal of Integrative Biology*, **2006**, 10, 205-8	3.8	16
38	Modelling data across labs, genomes, space and time. *Nature Cell Biology*, **2006**, 8, 1190-4	23.4	25
37	The Open Microscopy Environment (OME) Data Model and XML file: open tools for informatics and quantitative analysis in biological imaging. *Genome Biology*, **2005**, 6, R47	18.3	186
36	Phosphorylation regulates the dynamic interaction of RCC1 with chromosomes during mitosis. *Current Biology*, **2004**, 14, 1099-104	6.3	67
35	Chromosome condensation: DNA compaction in real time. *Current Biology*, **2004**, 14, R554-6	6.3	5
34	Optimisation of the two-dimensional gel electrophoresis protocol using the Taguchi approach. *Proteome Science*, **2004**, 2, 6	2.6	34
33	Aurora B regulates MCAK at the mitotic centromere. *Developmental Cell*, **2004**, 6, 253-68	10.2	431
32	Mitotic mechanics: the auroras come into view. *Current Opinion in Cell Biology*, **2003**, 15, 672-83	9	249
31	Quantitative fluorescence microscopy and image deconvolution. *Methods in Cell Biology*, **2003**, 72, 349-67	1.8	21
30	Human CLASP1 is an outer kinetochore component that regulates spindle microtubule dynamics. *Cell*, **2003**, 113, 891-904	56.2	177
29	The making of the mitotic chromosome: modern insights into classical questions. *Molecular Cell*, **2003**, 11, 557-69	17.6	223
28	Informatics and quantitative analysis in biological imaging. *Science*, **2003**, 300, 100-2	33.3	214
27	Time-lapse imaging reveals dynamic relocalization of PP1gamma throughout the mammalian cell cycle. *Molecular Biology of the Cell*, **2003**, 14, 107-17	3.5	122
26	Live cell imaging using wide-field microscopy and deconvolution. *Cell Structure and Function*, **2002**, 27, 335-41	2.2	75
25	Characterization and Use of Wide-Field Fluorescence Microscopy and Image Restoration in Quantitative Live Cell Imaging. *Microscopy and Microanalysis*, **2002**, 8, 266-267	0.5	
24	To 5D and beyond: quantitative fluorescence microscopy in the postgenomic era. *Traffic*, **2002**, 3, 29-36	5.7	47
23	Cajal body dynamics and association with chromatin are ATP-dependent. *Nature Cell Biology*, **2002**, 4, 502-8	23.4	232
22	Measuring tubulin content in Toxoplasma gondii: a comparison of laser-scanning confocal and wide-field fluorescence microscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 2014-9	11.5	119

21	A role for the Adenomatous Polyposis Coli protein in chromosome segregation. *Nature Cell Biology*, **2001**, 3, 429-32	23.4	453
20	Phosphorylation of threonine 156 of the mu2 subunit of the AP2 complex is essential for endocytosis in vitro and in vivo. *Current Biology*, **2001**, 11, 896-900	6.3	104
19	Chromatin-associated protein phosphatase 1 regulates aurora-B and histone H3 phosphorylation. *Journal of Biological Chemistry*, **2001**, 276, 26656-65	5.4	201
18	Nuclear dynamics: where genes are and how they got there. *Genome Biology*, **2001**, 2, REVIEWS0002	18.3	15
17	A workingperson's guide to deconvolution in light microscopy. *BioTechniques*, **2001**, 31, 1076-8, 1080, 1082 passim	2.5	259
16	Defining the Tools: an Analysis of Laser Scanning Confocal and Wide-Field/Restoration Fluorescence Microscope Imaging. *Microscopy and Microanalysis*, **2001**, 7, 1002-1003	0.5	
15	In vivo analysis of Cajal body movement, separation, and joining in live human cells. *Journal of Cell Biology*, **2000**, 151, 1561-74	7.3	223
14	Actin-dependent localization of an RNA encoding a cell-fate determinant in yeast. *Nature*, **1997**, 389, 90-3	50.4	335
13	Fuzzy sequences, specific attachments? Chromosome dynamics. *Current Biology*, **1996**, 6, 544-7	6.3	4
12	The SMC family: from chromosome condensation to dosage compensation. *Current Opinion in Cell Biology*, **1995**, 7, 329-36	9	88
11	The Collection, Processing, and Display of Digital Three-Dimensional Images of Biological Specimens **1995**, 197-210		37
10	Chromosome structure inside the nucleus. *Current Opinion in Cell Biology*, **1993**, 5, 412-6	9	20
9	High-resolution 3-D and 4-D imaging using wide-field CCD-based microscopy. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1993**, 51, 150-151		
8	The in vivo distribution and dynamics of DNA topoisomerase II in Drosophila embryonic nuclei and chromosomes. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1993**, 51, 74-75		
7	Chromosome structure and dynamics as revealed by 3-D and 4-D imaging. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1992**, 50, 588-589		
6	Chromosome structure and dynamics as revealed by 3-D and 4-D imaging. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1991**, 49, 396-397		
5	Focal points for chromosome condensation and decondensation revealed by three-dimensional in vivo time-lapse microscopy. *Nature*, **1989**, 342, 293-6	50.4	99
4	Community Standards for Open Cell Migration Data		3

3	OME Files - An open source reference library for the OME-XML metadata model and the OME-TIFF file format	3
2	The Image Data Resource: A Scalable Platform for Biological Image Data Access, Integration, and Dissemination	1
1	OME-NGFF: scalable format strategies for interoperable bioimaging data	10