Mark-Anthony Bray

List of Publications by Year
in descending order

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47	4,693	172457	243625
papers	citations	29 h-index	44 g-index

51	51	51	11297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cell Painting predicts impact of lung cancer variants. Molecular Biology of the Cell, 2022, 33, mbcE21110538.	2.1	25
2	A High-Content Screen Identifies TPP1 and Aurora B as Regulators of Axonal Mitochondrial Transport. Cell Reports, 2019, 28, 3224-3237.e5.	6.4	31
3	Quality Control for High-Throughput Imaging Experiments Using Machine Learning in Cellprofiler. Methods in Molecular Biology, 2018, 1683, 89-112.	0.9	46
4	A dataset of images and morphological profiles of 30 000 small-molecule treatments using the Cell Painting assay. GigaScience, 2017, 6, 1-5.	6.4	102
5	Mining for osteogenic surface topographies: In silico design to inÂvivo osseo-integration. Biomaterials, 2017, 137, 49-60.	11.4	66
6	Systematic, multiparametric analysis of Mycobacterium tuberculosis intracellular infection offers insight into coordinated virulence. PLoS Pathogens, 2017, 13, e1006363.	4.7	94
7	Systematic morphological profiling of human gene and allele function via Cell Painting. ELife, 2017, 6, .	6.0	129
8	Cell Painting, a high-content image-based assay for morphological profiling using multiplexed fluorescent dyes. Nature Protocols, 2016, 11, 1757-1774.	12.0	608
9	An open-source computational tool to automatically quantify immunolabeled retinal ganglion cells. Experimental Eye Research, 2016, 147, 50-56.	2.6	23
10	CellProfiler Tracer: exploring and validating high-throughput, time-lapse microscopy image data. BMC Bioinformatics, 2015, 16, 368.	2.6	38
11	Increased expression of the immune modulatory molecule PD-L1 (CD274) in anaplastic meningioma. Oncotarget, 2015, 6, 4704-4716.	1.8	127
12	Using CellProfiler for Automatic Identification and Measurement of Biological Objects in Images. Current Protocols in Molecular Biology, 2015, 109, 14.17.1-14.17.13.	2.9	84
13	CDy6, a Photostable Probe for Long-Term Real-Time Visualization of Mitosis and Proliferating Cells. Chemistry and Biology, 2015, 22, 299-307.	6.0	11
14	Symmetry-based mitosis detection in time-lapse microscopy. , 2015, , .		8
15	Morphological Profiles of RNAi-Induced Gene Knockdown Are Highly Reproducible but Dominated by Seed Effects. PLoS ONE, 2015, 10, e0131370.	2.5	31
16	Identification of Host-Targeted Small Molecules That Restrict Intracellular Mycobacterium tuberculosis Growth. PLoS Pathogens, 2014, 10, e1003946.	4.7	234
17	ProtocolNavigator: emulation-based software for the design, documentation and reproduction biological experiments. Bioinformatics, 2014, 30, 3440-3442.	4.1	9
18	Rare variants in PPARG with decreased activity in adipocyte differentiation are associated with increased risk of type 2 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13127-13132.	7.1	152

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19	Automated image-based assay for evaluation of HIV neutralization and cell-to-cell fusion inhibition. BMC Infectious Diseases, 2014, 14, 472.	2.9	4
20	Pipeline for illumination correction of images for highâ€throughput microscopy. Journal of Microscopy, 2014, 256, 231-236.	1.8	83
21	Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10911-10916.	7.1	191
22	High- and low-throughput scoring of fat mass and body fat distribution in C. elegans. Methods, 2014, 68, 492-499.	3.8	54
23	ZFHX4 Interacts with the NuRD Core Member CHD4 and Regulates the Glioblastoma Tumor-Initiating Cell State. Cell Reports, 2014, 6, 313-324.	6.4	106
24	Automated quantification of Zebrafish tail deformation for high-throughput drug screening. , 2013, , 902-905.		5
25	Workflow and Metrics for Image Quality Control in Large-Scale High-Content Screens. Journal of Biomolecular Screening, 2012, 17, 266-274.	2.6	92
26	Identification of Regulators of Polyploidization Presents Therapeutic Targets for Treatment of AMKL. Cell, 2012, 150, 575-589.	28.9	136
27	Myocyte Shape Regulates Lateral Registry of Sarcomeres and Contractility. American Journal of Pathology, 2012, 181, 2030-2037.	3.8	99
28	Visualization of Parameter Space for Image Analysis. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2402-2411.	4.4	52
29	Improved structure, function and compatibility for CellProfiler: modular high-throughput image analysis software. Bioinformatics, 2011, 27, 1179-1180.	4.1	948
30	Hierarchical architecture influences calcium dynamics in engineered cardiac muscle. Experimental Biology and Medicine, 2011, 236, 366-373.	2.4	58
31	Self-Organization of Muscle Cell Structure and Function. PLoS Computational Biology, 2011, 7, e1001088.	3.2	102
32	Human tumors instigate granulin-expressing hematopoietic cells that promote malignancy by activating stromal fibroblasts in mice. Journal of Clinical Investigation, 2011, 121, 784-799.	8.2	177
33	Nuclear morphology and deformation in engineered cardiac myocytes and tissues. Biomaterials, 2010, 31, 5143-5150.	11.4	86
34	A Kinome shRNA Screen to Identify Pathways That Regulate Megakaryocyte Polyploidization and New Targets for Differentiation Therapy. Blood, 2010, 116, 89-89.	1.4	0
35	Sarcomere alignment is regulated by myocyte shape. Cytoskeleton, 2008, 65, 641-651.	4.4	187
36	High-Resolution High-Speed Panoramic Cardiac Imaging System. IEEE Transactions on Biomedical Engineering, 2008, 55, 1241-1243.	4.2	11

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37	Multidimensional Detection and Analysis of Ca2+ Sparks in Cardiac Myocytes. Biophysical Journal, 2007, 92, 4433-4443.	0.5	25
38	Voltage-calcium state-space dynamics during initiation of reentry. Heart Rhythm, 2006, 3, 247-248.	0.7	9
39	Examination of Optical Depth Effects on Fluorescence Imaging of Cardiac Propagation. Biophysical Journal, 2003, 85, 4134-4145.	0.5	43
40	Interaction Dynamics of a Pair of Vortex Filament Rings. Physical Review Letters, 2003, 90, 238303.	7.8	21
41	Considerations in phase plane analysis for nonstationary reentrant cardiac behavior. Physical Review E, 2002, 65, 051902.	2.1	86
42	Use of topological charge to determine filament location and dynamics in a numerical model of scroll wave activity. IEEE Transactions on Biomedical Engineering, 2002, 49, 1086-1093.	4.2	89
43	Stable Bound Pair of Spiral Waves in Rabbit Ventricles. Journal of Cardiovascular Electrophysiology, 2002, 13, 414-414.	1.7	10
44	Three-Dimensional Visualization of Phase Singularities on the Isolated Rabbit Heart. Journal of Cardiovascular Electrophysiology, 2002, 13, 1311-1311.	1.7	9
45	Experimental and Theoretical Analysis of Phase Singularity Dynamics in Cardiac Tissue. Journal of Cardiovascular Electrophysiology, 2001, 12, 716-722.	1.7	136
46	Three-dimensional surface reconstruction and fluorescent visualization of cardiac activation. IEEE Transactions on Biomedical Engineering, 2000, 47, 1382-1391.	4.2	31
47	Membrane Refractoriness and Excitation Induced in Cardiac Fibers by Monophasic and Biphasic Shocks. Journal of Cardiovascular Electrophysiology, 1997, 8, 745-757.	1.7	17