

Mark-Anthony Bray

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

4,693
citations

172457

29
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

11297
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved structure, function and compatibility for CellProfiler: modular high-throughput image analysis software. <i>Bioinformatics</i> , 2011, 27, 1179-1180.	4.1	948
2	Cell Painting, a high-content image-based assay for morphological profiling using multiplexed fluorescent dyes. <i>Nature Protocols</i> , 2016, 11, 1757-1774.	12.0	608
3	Identification of Host-Targeted Small Molecules That Restrict Intracellular Mycobacterium tuberculosis Growth. <i>PLoS Pathogens</i> , 2014, 10, e1003946.	4.7	234
4	Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10911-10916.	7.1	191
5	Sarcomere alignment is regulated by myocyte shape. <i>Cytoskeleton</i> , 2008, 65, 641-651.	4.4	187
6	Human tumors instigate granulysin-expressing hematopoietic cells that promote malignancy by activating stromal fibroblasts in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 784-799.	8.2	177
7	Rare variants in <i>PPARG</i> with decreased activity in adipocyte differentiation are associated with increased risk of type 2 diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13127-13132.	7.1	152
8	Experimental and Theoretical Analysis of Phase Singularity Dynamics in Cardiac Tissue. <i>Journal of Cardiovascular Electrophysiology</i> , 2001, 12, 716-722.	1.7	136
9	Identification of Regulators of Polyploidization Presents Therapeutic Targets for Treatment of AMKL. <i>Cell</i> , 2012, 150, 575-589.	28.9	136
10	Systematic morphological profiling of human gene and allele function via Cell Painting. <i>ELife</i> , 2017, 6, .	6.0	129
11	Increased expression of the immune modulatory molecule PD-L1 (CD274) in anaplastic meningioma. <i>Oncotarget</i> , 2015, 6, 4704-4716.	1.8	127
12	ZFH4 Interacts with the NuRD Core Member CHD4 and Regulates the Glioblastoma Tumor-Initiating Cell State. <i>Cell Reports</i> , 2014, 6, 313-324.	6.4	106
13	Self-Organization of Muscle Cell Structure and Function. <i>PLoS Computational Biology</i> , 2011, 7, e1001088.	3.2	102
14	A dataset of images and morphological profiles of 30 000 small-molecule treatments using the Cell Painting assay. <i>GigaScience</i> , 2017, 6, 1-5.	6.4	102
15	Myocyte Shape Regulates Lateral Registry of Sarcomeres and Contractility. <i>American Journal of Pathology</i> , 2012, 181, 2030-2037.	3.8	99
16	Systematic, multiparametric analysis of Mycobacterium tuberculosis intracellular infection offers insight into coordinated virulence. <i>PLoS Pathogens</i> , 2017, 13, e1006363.	4.7	94
17	Workflow and Metrics for Image Quality Control in Large-Scale High-Content Screens. <i>Journal of Biomolecular Screening</i> , 2012, 17, 266-274.	2.6	92
18	Use of topological charge to determine filament location and dynamics in a numerical model of scroll wave activity. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1086-1093.	4.2	89

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19	Considerations in phase plane analysis for nonstationary reentrant cardiac behavior. <i>Physical Review E</i> , 2002, 65, 051902.	2.1	86
20	Nuclear morphology and deformation in engineered cardiac myocytes and tissues. <i>Biomaterials</i> , 2010, 31, 5143-5150.	11.4	86
21	Using CellProfiler for Automatic Identification and Measurement of Biological Objects in Images. <i>Current Protocols in Molecular Biology</i> , 2015, 109, 14.17.1-14.17.13.	2.9	84
22	Pipeline for illumination correction of images for high-throughput microscopy. <i>Journal of Microscopy</i> , 2014, 256, 231-236.	1.8	83
23	Mining for osteogenic surface topographies: In silico design to in vivo osseo-integration. <i>Biomaterials</i> , 2017, 137, 49-60.	11.4	66
24	Hierarchical architecture influences calcium dynamics in engineered cardiac muscle. <i>Experimental Biology and Medicine</i> , 2011, 236, 366-373.	2.4	58
25	High- and low-throughput scoring of fat mass and body fat distribution in <i>C. elegans</i> . <i>Methods</i> , 2014, 68, 492-499.	3.8	54
26	Visualization of Parameter Space for Image Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2011, 17, 2402-2411.	4.4	52
27	Quality Control for High-Throughput Imaging Experiments Using Machine Learning in Cellprofiler. <i>Methods in Molecular Biology</i> , 2018, 1683, 89-112.	0.9	46
28	Examination of Optical Depth Effects on Fluorescence Imaging of Cardiac Propagation. <i>Biophysical Journal</i> , 2003, 85, 4134-4145.	0.5	43
29	CellProfiler Tracer: exploring and validating high-throughput, time-lapse microscopy image data. <i>BMC Bioinformatics</i> , 2015, 16, 368.	2.6	38
30	Three-dimensional surface reconstruction and fluorescent visualization of cardiac activation. <i>IEEE Transactions on Biomedical Engineering</i> , 2000, 47, 1382-1391.	4.2	31
31	A High-Content Screen Identifies TPP1 and Aurora B as Regulators of Axonal Mitochondrial Transport. <i>Cell Reports</i> , 2019, 28, 3224-3237.e5.	6.4	31
32	Morphological Profiles of RNAi-Induced Gene Knockdown Are Highly Reproducible but Dominated by Seed Effects. <i>PLoS ONE</i> , 2015, 10, e0131370.	2.5	31
33	Multidimensional Detection and Analysis of Ca ²⁺ Sparks in Cardiac Myocytes. <i>Biophysical Journal</i> , 2007, 92, 4433-4443.	0.5	25
34	Cell Painting predicts impact of lung cancer variants. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21110538.	2.1	25
35	An open-source computational tool to automatically quantify immunolabeled retinal ganglion cells. <i>Experimental Eye Research</i> , 2016, 147, 50-56.	2.6	23
36	Interaction Dynamics of a Pair of Vortex Filament Rings. <i>Physical Review Letters</i> , 2003, 90, 238303.	7.8	21

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37	Membrane Refractoriness and Excitation Induced in Cardiac Fibers by Monophasic and Biphasic Shocks. <i>Journal of Cardiovascular Electrophysiology</i> , 1997, 8, 745-757.	1.7	17
38	High-Resolution High-Speed Panoramic Cardiac Imaging System. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1241-1243.	4.2	11
39	CDy6, a Photostable Probe for Long-Term Real-Time Visualization of Mitosis and Proliferating Cells. <i>Chemistry and Biology</i> , 2015, 22, 299-307.	6.0	11
40	Stable Bound Pair of Spiral Waves in Rabbit Ventricles. <i>Journal of Cardiovascular Electrophysiology</i> , 2002, 13, 414-414.	1.7	10
41	Three-Dimensional Visualization of Phase Singularities on the Isolated Rabbit Heart. <i>Journal of Cardiovascular Electrophysiology</i> , 2002, 13, 1311-1311.	1.7	9
42	Voltage-calcium state-space dynamics during initiation of reentry. <i>Heart Rhythm</i> , 2006, 3, 247-248.	0.7	9
43	ProtocolNavigator: emulation-based software for the design, documentation and reproduction biological experiments. <i>Bioinformatics</i> , 2014, 30, 3440-3442.	4.1	9
44	Symmetry-based mitosis detection in time-lapse microscopy. , 2015, , .		8
45	Automated quantification of Zebrafish tail deformation for high-throughput drug screening. , 2013, , 902-905.		5
46	Automated image-based assay for evaluation of HIV neutralization and cell-to-cell fusion inhibition. <i>BMC Infectious Diseases</i> , 2014, 14, 472.	2.9	4
47	A Kinome shRNA Screen to Identify Pathways That Regulate Megakaryocyte Polyploidization and New Targets for Differentiation Therapy. <i>Blood</i> , 2010, 116, 89-89.	1.4	0