Auguste Genovesio

List of Publications by Year
in descending order

57 papers	3,169 citations	304743 22 h-index	223800 46 g-index
63 all docs	63 docs citations	63 times ranked	4867 citing authors

#	Article	IF	Citations
1	SAGA interacting factors confine sub-diffusion of transcribed genes to the nuclear envelope. Nature, 2006, 441, 770-773.	27.8	421
2	High Content Screening Identifies Decaprenyl-Phosphoribose 2′ Epimerase as a Target for Intracellular Antimycobacterial Inhibitors. PLoS Pathogens, 2009, 5, e1000645.	4.7	281
3	Quantitative four-dimensional tracking of cytoplasmic and nuclear HIV-1 complexes. Nature Methods, 2006, 3, 817-824.	19.0	271
4	Telomere tethering at the nuclear periphery is essential for efficient DNA double strand break repair in subtelomeric region. Journal of Cell Biology, 2006, 172, 189-199.	5.2	201
5	Comparison of Methods for Image-Based Profiling of Cellular Morphological Responses to Small-Molecule Treatment. Journal of Biomolecular Screening, 2013, 18, 1321-1329.	2.6	166
6	Increasing the Content of High-Content Screening: An Overview. Journal of Biomolecular Screening, 2014, 19, 640-650.	2.6	166
7	Cerebral microcirculation shear stress levels determine Neisseria meningitidis attachment sites along the blood–brain barrier. Journal of Experimental Medicine, 2006, 203, 1939-1950.	8.5	165
8	Multiple particle tracking in 3-D+t microscopy: method and application to the tracking of endocytosed quantum dots. IEEE Transactions on Image Processing, 2006, 15, 1062-1070.	9.8	164
9	High Content Phenotypic Cell-Based Visual Screen Identifies Mycobacterium tuberculosis Acyltrehalose-Containing Glycolipids Involved in Phagosome Remodeling. PLoS Pathogens, 2010, 6, e1001100.	4.7	158
10	Antileishmanial High-Throughput Drug Screening Reveals Drug Candidates with New Scaffolds. PLoS Neglected Tropical Diseases, 2010, 4, e675.	3.0	123
11	An Image-Based High-Content Screening Assay for Compounds Targeting Intracellular Leishmania donovani Amastigotes in Human Macrophages. PLoS Neglected Tropical Diseases, 2012, 6, e1671.	3.0	117
12	Adult Neural Stem Cells and Multiciliated Ependymal Cells Share a Common Lineage Regulated by the Geminin Family Members. Neuron, 2019, 102, 159-172.e7.	8.1	90
13	Smooth 2D manifold extraction from 3D image stack. Nature Communications, 2017, 8, 15554.	12.8	76
14	Calibrated mitotic oscillator drives motile ciliogenesis. Science, 2017, 358, 803-806.	12.6	75
15	mTORC1 signaling and primary cilia are required for brain ventricle morphogenesis. Development (Cambridge), 2017, 144, 201-210.	2.5	69
16	Ependymal cilia beating induces an actin network to protect centrioles against shear stress. Nature Communications, 2018, 9, 2279.	12.8	66
17	Automated Genome-Wide Visual Profiling of Cellular Proteins Involved in HIV Infection. Journal of Biomolecular Screening, 2011, 16, 945-958.	2.6	49
18	Active Fluctuations of the Nuclear Envelope Shape the Transcriptional Dynamics in Oocytes. Developmental Cell, 2019, 51, 145-157.e10.	7.0	46

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19	Dimerization, Oligomerization, and Aggregation of Human Amyotrophic Lateral Sclerosis Copper/Zinc Superoxide Dismutase 1 Protein Mutant Forms in Live Cells. Journal of Biological Chemistry, 2014, 289, 15094-15103.	3.4	45
20	Automated High-Throughput siRNA Transfection in Raw 264.7 Macrophages: A Case Study for Optimization Procedure. Journal of Biomolecular Screening, 2009, 14, 151-160.	2.6	41
21	Visual Genome-Wide RNAi Screening to Identify Human Host Factors Required for Trypanosoma cruzi Infection. PLoS ONE, 2011, 6, e19733.	2.5	30
22	PhaeoNet: A Holistic RNAseq-Based Portrait of Transcriptional Coordination in the Model Diatom Phaeodactylum tricornutum. Frontiers in Plant Science, 2020, 11, 590949.	3.6	26
23	Artificially decreasing cortical tension generates aneuploidy in mouse oocytes. Nature Communications, 2020, 11, 1649.	12.8	26
24	In Vivo Colocalisation of oskar mRNA and Trans-Acting Proteins Revealed by Quantitative Imaging of the Drosophila Oocyte. PLoS ONE, 2009, 4, e6241.	2.5	23
25	High‐Throughput Optical Mapping of Replicating DNA. Small Methods, 2018, 2, 1800146.	8.6	22
26	Genome wide natural variation of H3K27me3 selectively marks genes predicted to be important for cell differentiation in <i>Phaeodactylum tricornutum</i>. New Phytologist, 2021, 229, 3208-3220.	7.3	19
27	SUPPORT VECTOR MACHINES FOR AUTOMATIC DETECTION OF TUBERCULOSIS BACTERIA IN CONFOCAL MICROSCOPY IMAGES. , 2007, , .		16
28	Compound Functional Prediction Using Multiple Unrelated Morphological Profiling Assays. SLAS Technology, 2018, 23, 243-251.	1.9	16
29	In vivo large-scale analysis of Drosophila neuronal calcium traces by automated tracking of single somata. Scientific Reports, 2020, 10, 7153.	3.3	16
30	Contextual Automated 3D Analysis of Subcellular Organelles Adapted to High-Content Screening. Journal of Biomolecular Screening, 2010, 15, 847-857.	2.6	15
31	Development of a multiplex phenotypic cell-based high throughput screening assay to identify novel hepatitis C virus antivirals. Antiviral Research, 2013, 99, 6-11.	4.1	15
32	An RNAi Screen in a Novel Model of Oriented Divisions Identifies the Actin-Capping Protein Z Î² as an Essential Regulator of Spindle Orientation. Current Biology, 2017, 27, 2452-2464.e8.	3.9	15
33	High-Throughput In Vivo Genotoxicity Testing: An Automated Readout System for the Somatic Mutation and Recombination Test (SMART). PLoS ONE, 2015, 10, e0121287.	2.5	13
34	Detection and tracking of overlapping cell nuclei for large scale mitosis analyses. BMC Bioinformatics, 2016, 17, 183.	2.6	13
35	Quantification of protein interaction in living cells by two‐photon spectral imaging with fluorescent protein fluorescence resonance energy transfer pair devoid of acceptor bleed‐through. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 112-119.	1.5	12
36	PySpacell: A Python Package for Spatial Analysis of Cell Images. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 288-295.	1.5	12

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37	Automated Nuclear Analysis of Leishmania major Telomeric Clusters Reveals Changes in Their Organization during the Parasite's Life Cycle. PLoS ONE, 2008, 3, e2313.	2.5	11
38	Monitored eCLIP: high accuracy mapping of RNA-protein interactions. Nucleic Acids Research, 2018, 46, 11553-11565.	14.5	11
39	FastSME: Faster and Smoother Manifold Extraction from 3D Stack. , 2018, , .		10
40	ALFA: annotation landscape for aligned reads. BMC Genomics, 2019, 20, 250.	2.8	9
41	Tracking fluroescent spots in biological video microscopy. , 2003, 4964, 98.		8
42	High-Content Classification of Nucleocytoplasmic Import or Export Inhibitors. Journal of Biomolecular Screening, 2007, 12, 621-627.	2.6	7
43	Coordination of transcriptional and translational regulations in human epithelial cells infected by <i>Listeria monocytogenes</i>. RNA Biology, 2020, 17, 1492-1507.	3.1	6
44	Automated Confocal Microscope Bias Correction. AIP Conference Proceedings, 2006, , .	0.4	5
45	Unraveling spatial cellular pattern by computational tissue shuffling. Communications Biology, 2020, 3, 605.	4.4	5
46	A modified fluorescence in situ hybridization protocol for Plasmodium falciparum greatly improves nuclear architecture conservation. Molecular and Biochemical Parasitology, 2010, 173, 48-52.	1.1	4
47	A High-Content Subtractive Screen for Selecting Small Molecules Affecting Internalization of GPCRs. Journal of Biomolecular Screening, 2012, 17, 379-385.	2.6	3
48	Transcription Sites Are Developmentally Regulated during the Asexual Cycle of Plasmodium falciparum. PLoS ONE, 2013, 8, e55539.	2.5	3
49	3D Mumford-Shah Based Active Mesh. Lecture Notes in Computer Science, 2006, , 208-217.	1.3	2
50	IM.Grid, a Grid computing approach for Image Mining of High Throughput-High Content Screening. , 2008, , .		2
51	Active vector graph for regularized tesselation. , 2009, , .		1
52	Correction: Telomere tethering at the nuclear periphery is essential for efficient DNA double strand break repair in subtelomeric region. Journal of Cell Biology, 2006, 172, 951-951.	5.2	0
53	3D Automated Nuclear Morphometric Analysis Using Active Meshes. Lecture Notes in Computer Science, 2007, , 356-367.	1.3	0
54	A method for discontinuous neurite reconstruction based on diffusion tensor, Hessian eigenvector, and diffused gradient vector fields. , 2011, , .		0

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55	Cerebral microcirculation shear stress levels determine Neisseria meningitidis attachment sites along the bloodâ€"brain barrier. Journal of Cell Biology, 2006, 174, i7-i7.	5.2	0
56	mTORC1 signaling and primary cilia are required for brain ventricle morphogenesis. Journal of Cell Science, 2017, 130, e1.1-e1.1.	2.0	0
57	Non-Convex Cell Epithelial Modeling Unveils Cellular Interactions. , 2022, , .		0