Peter Horvath

List of Publications by Year in descending order

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60 papers

4,332 citations

236925 25 h-index 56 g-index

60 all docs 60 does citations

60 times ranked

8751 citing authors

#	Article	IF	CITATIONS
1	Neuropilin-1 is a host factor for SARS-CoV-2 infection. Science, 2020, 370, 861-865.	12.6	1,015
2	Data-analysis strategies for image-based cell profiling. Nature Methods, 2017, 14, 849-863.	19.0	535
3	Screening out irrelevant cell-based models of disease. Nature Reviews Drug Discovery, 2016, 15, 751-769.	46.4	402
4	Ex vivo drug response profiling detects recurrent sensitivity patterns in drug-resistant acute lymphoblastic leukemia. Blood, 2017, 129, e26-e37.	1.4	195
5	nucleAlzer: A Parameter-free Deep Learning Framework for Nucleus Segmentation Using Image Style Transfer. Cell Systems, 2020, 10, 453-458.e6.	6.2	163
6	Deep Visual Proteomics defines single-cell identity and heterogeneity. Nature Biotechnology, 2022, 40, 1231-1240.	17.5	160
7	The Host Nonsense-Mediated mRNA Decay Pathway Restricts Mammalian RNA Virus Replication. Cell Host and Microbe, 2014, 16, 403-411.	11.0	150
8	CIDRE: an illumination-correction method for optical microscopy. Nature Methods, 2015, 12, 404-406.	19.0	129
9	Test-time augmentation for deep learning-based cell segmentation on microscopy images. Scientific Reports, 2020, 10, 5068.	3 . 3	125
10	CellTracker (not only) for dummies. Bioinformatics, 2016, 32, 955-957.	4.1	107
11	Diffusion and retention are major determinants of protein targeting to the inner nuclear membrane. Journal of Cell Biology, 2015, 209, 687-704.	5 . 2	101
12	Genome-wide RNAi Screening Identifies Protein Modules Required for 40S Subunit Synthesis in Human Cells. Cell Reports, 2015, 13, 2879-2891.	6.4	90
13	Histone Deacetylase 8 Is Required for Centrosome Cohesion and Influenza A Virus Entry. PLoS Pathogens, 2011, 7, e1002316.	4.7	78
14	Advanced Cell Classifier: User-Friendly Machine-Learning-Based Software for Discovering Phenotypes in High-Content Imaging Data. Cell Systems, 2017, 4, 651-655.e5.	6.2	77
15	Comprehensive Drug Testing of Patient-derived Conditionally Reprogrammed Cells from Castration-resistant Prostate Cancer. European Urology, 2017, 71, 319-327.	1.9	74
16	Phenotypic Image Analysis Software Tools for Exploring and Understanding Big Image Data from Cell-Based Assays. Cell Systems, 2018, 6, 636-653.	6.2	74
17	Concerns, challenges and promises of high-content analysis of 3D cellular models. Nature Reviews Drug Discovery, 2018, 17, 606-606.	46.4	64
18	Accurate Morphology Preserving Segmentation of Overlapping Cells based on Active Contours. Scientific Reports, 2016, 6, 32412.	3.3	60

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19	Genome-Wide Small Interfering RNA Screens Reveal VAMP3 as a Novel Host Factor Required for Uukuniemi Virus Late Penetration. Journal of Virology, 2014, 88, 8565-8578.	3.4	48
20	Role for formin-like 1-dependent acto-myosin assembly in lipid droplet dynamics and lipid storage. Nature Communications, 2017, 8, 14858.	12.8	48
21	A deep convolutional neural network approach for astrocyte detection. Scientific Reports, 2018, 8, 12878.	3.3	42
22	A functional genetic screen defines the AKT-induced senescence signaling network. Cell Death and Differentiation, 2020, 27, 725-741.	11.2	40
23	Candida albicans Enhances the Progression of Oral Squamous Cell Carcinoma <i>In Vitro</i> and <i>In Vivo</i> . MBio, 2022, 13, e0314421.	4.1	39
24	MISpheroID: a knowledgebase and transparency tool for minimum information in spheroid identity. Nature Methods, 2021, 18, 1294-1303.	19.0	38
25	Image-based RNA interference screening reveals an individual dependence of acute lymphoblastic leukemia on stromal cysteine support. Oncotarget, 2014, 5, 11501-11512.	1.8	37
26	Software tools for 3D nuclei segmentation and quantitative analysis in multicellular aggregates. Computational and Structural Biotechnology Journal, 2020, 18, 1287-1300.	4.1	33
27	Active Learning Strategies for Phenotypic Profiling of High-Content Screens. Journal of Biomolecular Screening, 2014, 19, 685-695.	2.6	32
28	Nucleus segmentation: towards automated solutions. Trends in Cell Biology, 2022, 32, 295-310.	7.9	31
29	AnnotatorJ: an ImageJ plugin to ease hand annotation of cellular compartments. Molecular Biology of the Cell, 2020, 31, 2179-2186.	2.1	30
30	Hsp70-associated chaperones have a critical role in buffering protein production costs. ELife, 2018, 7, .	6.0	29
31	Evolution of Robustness to Protein Mistranslation by Accelerated Protein Turnover. PLoS Biology, 2015, 13, e1002291.	5.6	29
32	The NF45/NF90 Heterodimer Contributes to the Biogenesis of 60S Ribosomal Subunits and Influences Nucleolar Morphology. Molecular and Cellular Biology, 2015, 35, 3491-3503.	2.3	28
33	Automatic deep learning-driven label-free image-guided patch clamp system. Nature Communications, 2021, 12, 936.	12.8	22
34	3D-Cell-Annotator: an open-source active surface tool for single-cell segmentation in 3D microscopy images. Bioinformatics, 2020, 36, 2948-2949.	4.1	18
35	Computationally prioritized drugs inhibit SARS-CoV-2 infection and syncytia formation. Briefings in Bioinformatics, 2022, 23, .	6.5	17
36	Nuclear Motility in Glioma Cells Reveals a Cell-Line Dependent Role of Various Cytoskeletal Components. PLoS ONE, 2014, 9, e93431.	2.5	16

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37	Gene loss and compensatory evolution promotes the emergence of morphological novelties in budding yeast. Nature Ecology and Evolution, 2022, 6, 763-773.	7.8	16
38	SpheroidPicker for automated 3D cell culture manipulation using deep learning. Scientific Reports, 2021, 11, 14813.	3.3	13
39	Comparison of the antiremodeling effects of losartan and mirabegron in a rat model of uremic cardiomyopathy. Scientific Reports, 2021, 11, 17495.	3.3	13
40	DIC image reconstruction using an energy minimization framework to visualize optical path length distribution. Scientific Reports, 2016, 6, 30420.	3.3	12
41	Investigation of the Antihypertrophic and Antifibrotic Effects of Losartan in a Rat Model of Radiation-Induced Heart Disease. International Journal of Molecular Sciences, 2021, 22, 12963.	4.1	11
42	Cell Type-Specific Arousal-Dependent Modulation of Thalamic Activity in the Lateral Geniculate Nucleus. Cerebral Cortex Communications, 2021, 2, tgab020.	1.6	10
43	Investigation of the Antiremodeling Effects of Losartan, Mirabegron and Their Combination on the Development of Doxorubicin-Induced Chronic Cardiotoxicity in a Rat Model. International Journal of Molecular Sciences, 2022, 23, 2201.	4.1	9
44	Combining High-Content Imaging and Phenotypic Classification Analysis of Senescence-Associated Beta-Galactosidase Staining to Identify Regulators of Oncogene-Induced Senescence. Assay and Drug Development Technologies, 2016, 14, 416-428.	1.2	8
45	Regression plane concept for analysing continuous cellular processes with machine learning. Nature Communications, 2021, 12, 2532.	12.8	8
46	Cell lines and clearing approaches: a single-cell level 3D light-sheet fluorescence microscopy dataset of multicellular spheroids. Data in Brief, 2021, 36, 107090.	1.0	8
47	Oral Epithelial Cells Distinguish between <i>Candida</i> Species with High or Low Pathogenic Potential through MicroRNA Regulation. MSystems, 2021, 6, .	3.8	8
48	An In Vitro System to Study Nuclear Envelope Breakdown. Methods in Cell Biology, 2014, 122, 255-276.	1.1	6
49	Spa-RQ: an Image Analysis Tool to Visualise and Quantify Spatial Phenotypes Applied to Non-Small Cell Lung Cancer. Scientific Reports, 2019, 9, 17613.	3.3	5
50	Exercise training worsens cardiac performance in males but does not change ejection fraction and improves hypertrophy in females in a mouse model of metabolic syndrome. Biology of Sex Differences, 2022, 13, 5.	4.1	5
51	Active contours for selective object segmentation. , 2016, , .		4
52	Open-Source Tools for Volume Estimation of 3D Multicellular Aggregates. Applied Sciences (Switzerland), 2019, 9, 1616.	2.5	4
53	DIC Microscopy Image Reconstruction Using a Novel Variational Framework. , 2015, , .		3
54	Pipette Hunter: Patch-Clamp Pipette Detection. Lecture Notes in Computer Science, 2017, , 172-183.	1.3	3

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55	Multiparametric platform for profiling lipid trafficking in human leukocytes. Cell Reports Methods, 2022, 2, 100166.	2.9	3
56	Active Surfaces for Selective Object Segmentation in 3D., 2017,,.		2
57	A quantitative metric for the comparative evaluation of optical clearing protocols for 3D multicellular spheroids. Computational and Structural Biotechnology Journal, 2021, 19, 1233-1243.	4.1	2
58	Proteome-wide landscape of solubility limits in a bacterial cell. Scientific Reports, 2022, 12, 6547.	3.3	2
59	A versatile transposon-based technology to generate loss- and gain-of-function phenotypes in the mouse liver. BMC Biology, 2022, 20, 74.	3.8	1
60	Cell Delivery: Routing Nanomolar Protein Cargoes to Lipid Raftâ€Mediated/Caveolar Endocytosis through a Ganglioside GM1‧pecific Recognition Tag (Adv. Sci. 4/2020). Advanced Science, 2020, 7, 2070019.	11.2	0