Maria Rodriguez Martinez

List of Publications by Year
in descending order

49 papers	2,484 citations	331259 21 h-index	264894 42 g-index
52 all docs	52 docs citations	52 times ranked	4488 citing authors

#	Article	IF	Citations
1	DECODE: a computational pipeline to discover T cell receptor binding rules. Bioinformatics, 2022, 38, i246-i254.	1.8	4
2	Multi-Scale Modeling Recapitulates the Effect of Genetic Alterations Associated With Diffuse Large B-Cell Lymphoma in the Germinal Center Dynamics. Frontiers in Systems Biology, 2022, 2, .	0.5	1
3	COSIFER: a Python package for the consensus inference of molecular interaction networks. Bioinformatics, 2021, 37, 2070-2072.	1.8	4
4	Data-driven molecular design for discovery and synthesis of novel ligands: a case study on SARS-CoV-2. Machine Learning: Science and Technology, 2021, 2, 025024.	2.4	16
5	PaccMannRL: De novo generation of hit-like anticancer molecules from transcriptomic data via reinforcement learning. IScience, 2021, 24, 102269.	1.9	42
6	SysMod: the ISCB community for data-driven computational modelling and multi-scale analysis of biological systems. Bioinformatics, 2021, 37, 3702-3706.	1.8	6
7	TITAN: T-cell receptor specificity prediction with bimodal attention networks. Bioinformatics, 2021, 37, i237-i244.	1.8	73
8	On the feasibility of deep learning applications using raw mass spectrometry data. Bioinformatics, 2021, 37, i245-i253.	1.8	10
9	The Multiple Dimensions of Networks in Cancer: A Perspective. Symmetry, 2021, 13, 1559.	1.1	4
10	Diagnostics and correction of batch effects in large‐scale proteomic studies: a tutorial. Molecular Systems Biology, 2021, 17, e10240.	3.2	57
11	DeStress: Deep Learning for Unsupervised Identification of Mental Stress in Firefighters from Heart-Rate Variability (HRV) Data. Studies in Computational Intelligence, 2021, , 93-105.	0.7	18
12	FPGA Accelerated Analysis of Boolean Gene Regulatory Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 2141-2147.	1.9	1
13	Identifying the Potential Mechanism of Action of SNPs Associated With Breast Cancer Susceptibility With GVITamIN. Frontiers in Bioengineering and Biotechnology, 2020, 8, 798.	2.0	0
14	Inferring clonal composition from multiple tumor biopsies. Npj Systems Biology and Applications, 2020, 6, 27.	1.4	5
15	Convergent network effects along the axis of gene expression during prostate cancer progression. Genome Biology, 2020, 21, 302.	3.8	17
16	PaccMann: a web service for interpretable anticancer compound sensitivity prediction. Nucleic Acids Research, 2020, 48, W502-W508.	6.5	38
17	Computational Model Reveals a Stochastic Mechanism behind Germinal Center Clonal Bursts. Cells, 2020, 9, 1448.	1.8	16
18	Pan-cancer analysis of somatic mutations and epigenetic alterations in insulated neighbourhood boundaries. PLoS ONE, 2020, 15, e0227180.	1.1	8

#	Article	IF	Citations
19	Stabilized Reconstruction of Signaling Networks from Single-Cell Cue-Response Data. Scientific Reports, 2020, 10, 1233.	1.6	1
20	Multiscale Modeling of Germinal Center Recapitulates the Temporal Transition From Memory B Cells to Plasma Cells Differentiation as Regulated by Antigen Affinity-Based Tfh Cell Help. Frontiers in Immunology, 2020, 11, 620716.	2.2	16
21	PaccMannRL: Designing Anticancer Drugs From Transcriptomic Data via Reinforcement Learning. Lecture Notes in Computer Science, 2020, , 231-233.	1.0	16
22	Toward Explainable Anticancer Compound Sensitivity Prediction via Multimodal Attention-Based Convolutional Encoders. Molecular Pharmaceutics, 2019, 16, 4797-4806.	2.3	86
23	A Probabilistic Model of the Germinal Center Reaction. Frontiers in Immunology, 2019, 10, 689.	2.2	23
24	PIMKL: Pathway-Induced Multiple Kernel Learning. Npj Systems Biology and Applications, 2019, 5, 8.	1.4	21
25	Context-specific interaction networks from vector representation of words. Nature Machine Intelligence, 2019, 1, 181-190.	8.3	9
26	A Single-Cell Atlas of the Tumor and Immune Ecosystem of Human Breast Cancer. Cell, 2019, 177, 1330-1345.e18.	13.5	547
27	Network-based Biased Tree Ensembles (NetBiTE) for Drug Sensitivity Prediction and Drug Sensitivity Biomarker Identification in Cancer. Scientific Reports, 2019, 9, 15918.	1.6	20
28	CellCycleTRACER accounts for cell cycle and volume in mass cytometry data. Nature Communications, 2018, 9, 632.	5.8	36
29	The number of titrated microRNA species dictates ceRNA regulation. Nucleic Acids Research, 2018, 46, 4354-4369.	6.5	32
30	High-throughput validation of ceRNA regulatory networks. BMC Genomics, 2017, 18, 418.	1.2	46
31	Depletion of FOXM1 via MET Targeting Underlies Establishment of a DNA Damage–Induced Senescence Program in Gastric Cancer. Clinical Cancer Research, 2016, 22, 5322-5336.	3.2	27
32	Elucidating Compound Mechanism of Action by Network Perturbation Analysis. Cell, 2015, 162, 441-451.	13.5	278
33	Abstract 5231: Highly conserved ceRNA regulatory interactions cooperate with genomic variability to modulate drivers of tumorigenesis.. , 2013, , .		0
34	Quantitative modeling of the terminal differentiation of B cells and mechanisms of lymphomagenesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2672-2677.	3.3	37
35	Quorum percolation in living neural networks. Europhysics Letters, 2010, 89, 18008.	0.7	37
36	Messenger RNA fluctuations and regulatory RNAs shape the dynamics of a negative feedback loop. Physical Review E, 2010, 81, 031924.	0.8	9

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37	Development of input connections in neural cultures. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13758-13763.	3.3	163
38	Transient transcriptional responses to stress are generated by opposing effects of mRNA production and degradation. Molecular Systems Biology, 2008, 4, 223.	3.2	169
39	Input–output robustness in simple bacterial signaling systems. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19931-19935.	3.3	170
40	Observational consequences of a landscape. Journal of High Energy Physics, 2006, 2006, 039-039.	1.6	206
41	GRB 051221A and tests of Lorentz symmetry. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 017-017.	1.9	27
42	Constraining Lorentz violations with gamma ray bursts. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 006-006.	1.9	36
43	Gamma-Ray Bursts and New Physics. Progress of Theoretical Physics Supplement, 2006, 163, 23-37.	0.2	0
44	General relativistic interaction of massless fields in cylindrical waves. Physical Review D, 2003, 68, .	1.6	0
45	Fluctuating brane in a dilatonic bulk. Physical Review D, 2003, 67, .	1.6	9
46	Defining perturbations on submanifolds. Physical Review D, 2003, 68, .	1.6	3
47	Cosmology of a Brane Radiating Gravitons into the Extra Dimension. Physical Review Letters, 2002, 89, 171301.	2.9	82
48	Brane cosmology with a bulk scalar field. Physical Review D, 2001, 64, .	1.6	56
49	PCfun: a hybrid computational framework for systematic characterization of protein complex function. Briefings in Bioinformatics, 0, , .	3.2	1