

Laura M Heiser

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

5,069
citations

186265
28
h-index

138484
58
g-index

67
all docs

67
docs citations

67
times ranked

9379
citing authors

#	ARTICLE	IF	CITATIONS
1	A community effort to assess and improve drug sensitivity prediction algorithms. <i>Nature Biotechnology</i> , 2014, 32, 1202-1212.	17.5	653
2	Subtype and pathway specific responses to anticancer compounds in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2724-2729.	7.1	417
3	Basal Subtype and MAPK/ERK Kinase (MEK)-Phosphoinositide 3-Kinase Feedback Signaling Determine Susceptibility of Breast Cancer Cells to MEK Inhibition. <i>Cancer Research</i> , 2009, 69, 565-572.	0.9	340
4	The Library of Integrated Network-Based Cellular Signatures NIH Program: System-Level Cataloging of Human Cells Response to Perturbations. <i>Cell Systems</i> , 2018, 6, 13-24.	6.2	327
5	Metrics other than potency reveal systematic variation in responses to cancer drugs. <i>Nature Chemical Biology</i> , 2013, 9, 708-714.	8.0	280
6	How Machine Learning Will Transform Biomedicine. <i>Cell</i> , 2020, 181, 92-101.	28.9	279
7	A Central Role for RAF $\hat{+}$ MEK $\hat{+}$ ERK Signaling in the Genesis of Pancreatic Ductal Adenocarcinoma. <i>Cancer Discovery</i> , 2012, 2, 685-693.	9.4	264
8	Modeling precision treatment of breast cancer. <i>Genome Biology</i> , 2013, 14, R110.	9.6	264
9	A community computational challenge to predict the activity of pairs of compounds. <i>Nature Biotechnology</i> , 2014, 32, 1213-1222.	17.5	264
10	Tumor-Derived Cell Lines as Molecular Models of Cancer Pharmacogenomics. <i>Molecular Cancer Research</i> , 2016, 14, 3-13.	3.4	230
11	Inferring causal molecular networks: empirical assessment through a community-based effort. <i>Nature Methods</i> , 2016, 13, 310-318.	19.0	209
12	Combating subclonal evolution of resistant cancer phenotypes. <i>Nature Communications</i> , 2017, 8, 1231.	12.8	124
13	FOXA1 overexpression mediates endocrine resistance by altering the ER transcriptome and IL-8 expression in ER-positive breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6600-E6609.	7.1	119
14	A Multi-center Study on the Reproducibility of Drug-Response Assays in Mammalian Cell Lines. <i>Cell Systems</i> , 2019, 9, 35-48.e5.	6.2	95
15	HER2 Reactivation through Acquisition of the HER2 L755S Mutation as a Mechanism of Acquired Resistance to HER2-targeted Therapy in HER2+ Breast Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 5123-5134.	7.0	85
16	MYC regulates ductal-neuroendocrine lineage plasticity in pancreatic ductal adenocarcinoma associated with poor outcome and chemoresistance. <i>Nature Communications</i> , 2017, 8, 1728.	12.8	83
17	Upregulation of ER Signaling as an Adaptive Mechanism of Cell Survival in HER2-Positive Breast Tumors Treated with Anti-HER2 Therapy. <i>Clinical Cancer Research</i> , 2015, 21, 3995-4003.	7.0	82
18	Spatial Updating in Area LIP Is Independent of Saccade Direction. <i>Journal of Neurophysiology</i> , 2006, 95, 2751-2767.	1.8	78

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19	Microenvironment-Mediated Mechanisms of Resistance to HER2 Inhibitors Differ between HER2+ Breast Cancer Subtypes. <i>Cell Systems</i> , 2018, 6, 329-342.e6.	6.2	72
20	Overcoming endocrine resistance due to reduced PTEN levels in estrogen receptor-positive breast cancer by co-targeting mammalian target of rapamycin, protein kinase B, or mitogen-activated protein kinase kinase. <i>Breast Cancer Research</i> , 2014, 16, 430.	5.0	61
21	Integrated analysis of breast cancer cell lines reveals unique signaling pathways. <i>Genome Biology</i> , 2009, 10, R31.	9.6	56
22	Context Specificity in Causal Signaling Networks Revealed by Phosphoprotein Profiling. <i>Cell Systems</i> , 2017, 4, 73-83.e10.	6.2	41
23	Targeting the Mevalonate Pathway to Overcome Acquired Anti-HER2 Treatment Resistance in Breast Cancer. <i>Molecular Cancer Research</i> , 2019, 17, 2318-2330.	3.4	41
24	Pathway-Enriched Gene Signature Associated with 53BP1 Response to PARP Inhibition in Triple-Negative Breast Cancer. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 2892-2901.	4.1	35
25	Quantification of sensitivity and resistance of breast cancer cell lines to anti-cancer drugs using GR metrics. <i>Scientific Data</i> , 2017, 4, 170166.	5.3	34
26	Enzalutamide response in a panel of prostate cancer cell lines reveals a role for glucocorticoid receptor in enzalutamide resistant disease. <i>Scientific Reports</i> , 2020, 10, 21750.	3.3	34
27	PEG-lipid micelles enable cholesterol efflux in Niemann-Pick Type C1 disease-based lysosomal storage disorder. <i>Scientific Reports</i> , 2016, 6, 31750.	3.3	33
28	Dynamic Circuitry for Updating Spatial Representations. II. Physiological Evidence for Interhemispheric Transfer in Area LIP of the Split-Brain Macaque. <i>Journal of Neurophysiology</i> , 2005, 94, 3249-3258.	1.8	32
29	Maintenance of MYC expression promotes de novo resistance to BET bromodomain inhibition in castration-resistant prostate cancer. <i>Scientific Reports</i> , 2019, 9, 3823.	3.3	32
30	Dynamic Circuitry for Updating Spatial Representations. I. Behavioral Evidence for Interhemispheric Transfer in the Split-Brain Macaque. <i>Journal of Neurophysiology</i> , 2005, 94, 3228-3248.	1.8	28
31	Dynamic Circuitry for Updating Spatial Representations. III. From Neurons to Behavior. <i>Journal of Neurophysiology</i> , 2007, 98, 105-121.	1.8	26
32	Corollary discharge and spatial updating: when the brain is split, is space still unified?. <i>Progress in Brain Research</i> , 2005, 149, 187-205.	1.4	25
33	BET bromodomain inhibition blocks the function of a critical AR-independent master regulator network in lethal prostate cancer. <i>Oncogene</i> , 2019, 38, 5658-5669.	5.9	23
34	Individual Cells Can Resolve Variations in Stimulus Intensity along the IGF-PI3K-AKT Signaling Axis. <i>Cell Systems</i> , 2019, 9, 580-588.e4.	6.2	20
35	ATM Suppresses SATB1-Induced Malignant Progression in Breast Epithelial Cells. <i>PLoS ONE</i> , 2012, 7, e51786.	2.5	20
36	A multi-encoder variational autoencoder controls multiple transformational features in single-cell image analysis. <i>Communications Biology</i> , 2022, 5, 255.	4.4	20

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37	Characterizing advanced breast cancer heterogeneity and treatment resistance through serial biopsies and comprehensive analytics. <i>Npj Precision Oncology</i> , 2021, 5, 28.	5.4	19
38	Decoupling of the PI3K Pathway via Mutation Necessitates Combinatorial Treatment in HER2+ Breast Cancer. <i>PLoS ONE</i> , 2015, 10, e0133219.	2.5	19
39	A robust prognostic signature for hormone-positive node-negative breast cancer. <i>Genome Medicine</i> , 2013, 5, 92.	8.2	18
40	Systems biology approaches to measure and model phenotypic heterogeneity in cancer. <i>Current Opinion in Systems Biology</i> , 2019, 17, 35-40.	2.6	17
41	A multiplex implantable microdevice assay identifies synergistic combinations of cancer immunotherapies and conventional drugs. <i>Nature Biotechnology</i> , 2022, 40, 1823-1833.	17.5	17
42	Activity of distinct growth factor receptor network components in breast tumors uncovers two biologically relevant subtypes. <i>Genome Medicine</i> , 2017, 9, 40.	8.2	16
43	Using Microarrays to Interrogate Microenvironmental Impact on Cellular Phenotypes in Cancer. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	16
44	Cellular androgen content influences enzalutamide agonism of F877L mutant androgen receptor. <i>Oncotarget</i> , 2016, 7, 40690-40703.	1.8	12
45	A scalable, open-source implementation of a large-scale mechanistic model for single cell proliferation and death signaling. <i>Nature Communications</i> , 2022, 13, .	12.8	12
46	Genome co-amplification upregulates a mitotic gene network activity that predicts outcome and response to mitotic protein inhibitors in breast cancer. <i>Breast Cancer Research</i> , 2016, 18, 70.	5.0	11
47	Integrative molecular network analysis identifies emergent enzalutamide resistance mechanisms in prostate cancer. <i>Oncotarget</i> , 2017, 8, 111084-111095.	1.8	11
48	A Network-Based Model of Oncogenic Collaboration for Prediction of Drug Sensitivity. <i>Frontiers in Genetics</i> , 2015, 6, 341.	2.3	9
49	Integrating Mathematical Modeling with High-Throughput Imaging Explains How Polyploid Populations Behave in Nutrient-Sparse Environments. <i>Cancer Research</i> , 2020, 80, 5109-5120.	0.9	8
50	Therapeutic Clues from an Integrated Omic Assessment of East Asian Triple Negative Breast Cancers. <i>Cancer Cell</i> , 2019, 35, 341-343.	16.8	7
51	Automatic Transformation and Integration to Improve Visualization and Discovery of Latent Effects in Imaging Data. <i>Journal of Computational and Graphical Statistics</i> , 2020, 29, 929-941.	1.7	7
52	Sensitivity to targeted therapy differs between HER2-amplified breast cancer cells harboring kinase and helical domain mutations in PIK3CA. <i>Breast Cancer Research</i> , 2021, 23, 81.	5.0	7
53	Transcriptional signatures in histologic structures within glioblastoma tumors may predict personalized drug sensitivity and survival. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa093.	0.7	5
54	Theoretical and experimental analysis of negative dielectrophoresis induced particle trajectories. <i>Electrophoresis</i> , 2022, , .	2.4	4

#	ARTICLE	IF	CITATIONS
55	Variational autoencoding tissue response to microenvironment perturbation. , 2019, 10949, .		2
56	Annot: a Django-based sample, reagent, and experiment metadata tracking system. BMC Bioinformatics, 2019, 20, 542.	2.6	1
57	Androgen content and BET bromodomain proteins influence enzalutamide agonism of mutant F876L androgen receptor.. Journal of Clinical Oncology, 2016, 34, e16538-e16538.	1.6	0