

Amy Brock

List of Publications by Year in descending order

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33
papers

2,333
citations

516710

16
h-index

477307

29
g-index

39
all docs

39
docs citations

39
times ranked

3795
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-genetic heterogeneity â€” a mutation-independent driving force for the somatic evolution of tumours. <i>Nature Reviews Genetics</i> , 2009, 10, 336-342.	16.3	455
2	High-Betweenness Proteins in the Yeast Protein Interaction Network. <i>Journal of Biomedicine and Biotechnology</i> , 2005, 2005, 96-103.	3.0	374
3	Non-Darwinian dynamics in therapy-induced cancer drug resistance. <i>Nature Communications</i> , 2013, 4, 2467.	12.8	244
4	Geometric Determinants of Directional Cell Motility Revealed Using Microcontact Printingâ€¢. <i>Langmuir</i> , 2003, 19, 1611-1617.	3.5	238
5	Nanoparticle targeting of anti-cancer drugs that alter intracellular signaling or influence the tumor microenvironment. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 107-118.	13.7	199
6	Mathematical models of tumor cell proliferation: A review of the literature. <i>Expert Review of Anticancer Therapy</i> , 2018, 18, 1271-1286.	2.4	91
7	Phenotypic Basis for Matrix Stiffness-Dependent Chemoresistance of Breast Cancer Cells to Doxorubicin. <i>Frontiers in Oncology</i> , 2018, 8, 337.	2.8	89
8	Silencing <i>HoxA1</i> by Intraductal Injection of siRNA Lipidoid Nanoparticles Prevents Mammary Tumor Progression in Mice. <i>Science Translational Medicine</i> , 2014, 6, 217ra2.	12.4	66
9	Control of cancer formation by intrinsic genetic noise and microenvironmental cues. <i>Nature Reviews Cancer</i> , 2015, 15, 499-509.	28.4	65
10	Cancer cell population growth kinetics at low densities deviate from the exponential growth model and suggest an Allee effect. <i>PLoS Biology</i> , 2019, 17, e3000399.	5.6	63
11	Single cell transcriptome profiling of the human alcohol-dependent brain. <i>Human Molecular Genetics</i> , 2020, 29, 1144-1153.	2.9	61
12	Precision Oncology: Between Vaguely Right and Precisely Wrong. <i>Cancer Research</i> , 2017, 77, 6473-6479.	0.9	56
13	Multifunctional barcoding with ClonMapper enables high-resolution study of clonal dynamics during tumor evolution and treatment. <i>Nature Cancer</i> , 2021, 2, 758-772.	13.2	52
14	A hybrid model of tumor growth and angiogenesis: In silico experiments. <i>PLoS ONE</i> , 2020, 15, e0231137.	2.5	42
15	Control of Lineage-Specific Gene Expression by Functionalized gRNA Barcodes. <i>ACS Synthetic Biology</i> , 2018, 7, 2468-2474.	3.8	34
16	Precision Medicine with Imprecise Therapy: Computational Modeling for Chemotherapy in Breast Cancer. <i>Translational Oncology</i> , 2018, 11, 732-742.	3.7	32
17	A multi-state model of chemoresistance to characterize phenotypic dynamics in breast cancer. <i>Scientific Reports</i> , 2018, 8, 12058.	3.3	26
18	Integrating Quantitative Assays with Biologically Based Mathematical Modeling for Predictive Oncology. <i>IScience</i> , 2020, 23, 101807.	4.1	22

#	ARTICLE	IF	CITATIONS
19	A time-resolved experimental-mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 167-183.	1.3	18
20	Integrating transcriptomics and bulk time course data into a mathematical framework to describe and predict therapeutic resistance in cancer. <i>Physical Biology</i> , 2021, 18, 016001.	1.8	17
21	Quantification of long-term doxorubicin response dynamics in breast cancer cell lines to direct treatment schedules. <i>PLoS Computational Biology</i> , 2022, 18, e1009104.	3.2	14
22	An experimental-mathematical approach to predict tumor cell growth as a function of glucose availability in breast cancer cell lines. <i>PLoS ONE</i> , 2021, 16, e0240765.	2.5	11
23	Cellular Reprogramming: A New Technology Frontier in Pharmaceutical Research. <i>Pharmaceutical Research</i> , 2012, 29, 35-52.	3.5	10
24	Ten simple rules for women principal investigators during a pandemic. <i>PLoS Computational Biology</i> , 2020, 16, e1008370.	3.2	10
25	Emerging Concepts and Tools in Cell Mechanomemory. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2103-2112.	2.5	9
26	Intraductal Delivery to the Rabbit Mammary Gland. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	5
27	Applications of high-resolution clone tracking technologies in cancer. <i>Current Opinion in Biomedical Engineering</i> , 2021, 19, 100317.	3.4	5
28	A time-resolved experimental-mathematical model for predicting the response of glioma cells to single-dose radiation therapy. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 167-183.	1.3	4
29	Functionalized Lineage Tracing for the Study and Manipulation of Heterogeneous Cell Populations. <i>Methods in Molecular Biology</i> , 2022, 2394, 109-131.	0.9	3
30	Novel Nanomaterials Enable Biomimetic Models of the Tumor Microenvironment. <i>Journal of Nanotechnology</i> , 2017, 2017, 1-8.	3.4	2
31	Proteomics in context. <i>Trends in Biotechnology</i> , 2001, 19, 435.	9.3	0
32	A bright new tool lights up promoters. <i>Trends in Biotechnology</i> , 2002, 20, 490.	9.3	0
33	Lineage Tracing in Chronic Lymphocytic Leukemia Reveals Clones with Stable Gene Expression States That Differentially Respond to Therapy. <i>Blood</i> , 2019, 134, 1229-1229.	1.4	0