Megan Nicole McClean

List of Publications by Year
in descending order

29	1,178	759233 12	526287 27
papers	citations	h-index	g-index

35	35	35	1645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Signal processing by the HOG MAP kinase pathway. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7165-7170.	7.1	236
2	Severe osmotic compression triggers a slowdown of intracellular signaling, which can be explained by molecular crowding. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5725-5730.	7.1	176
3	Cross-talk and decision making in MAP kinase pathways. Nature Genetics, 2007, 39, 409-414.	21.4	134
4	Fast-acting and nearly gratuitous induction of gene expression and protein depletion inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2011, 22, 4447-4459.	2.1	120
5	Single-cell RNA sequencing reveals intrinsic and extrinsic regulatory heterogeneity in yeast responding to stress. PLoS Biology, 2017, 15, e2004050.	5.6	118
6	Real-time optogenetic control of intracellular protein concentration in microbial cell cultures. Integrative Biology (United Kingdom), 2014, 6, 366.	1.3	68
7	Noise and interlocking signaling pathways promote distinct transcription factor dynamics in response to different stresses. Molecular Biology of the Cell, 2013, 24, 2045-2057.	2.1	66
8	A yeast optogenetic toolkit (yOTK) for gene expression control in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2020, 117, 886-893.	3.3	38
9	Under oil open-channel microfluidics empowered by exclusive liquid repellency. Science Advances, 2020, 6, eaay9919.	10.3	34
10	A New System for Comparative Functional Genomics of Saccharomyces Yeasts. Genetics, 2013, 195, 275-287.	2.9	27
11	The Dynamical Systems Properties of the HOG Signaling Cascade. Journal of Signal Transduction, 2011, 2011, 1-12.	2.0	22
12	Visualization and Analysis of mRNA Molecules Using Fluorescence In Situ Hybridization in Saccharomyces cerevisiae. Journal of Visualized Experiments, 2013, , e50382.	0.3	17
13	Optogenetic Repressors of Gene Expression in Yeasts Using Light-Controlled Nuclear Localization. Cellular and Molecular Bioengineering, 2019, 12, 511-528.	2.1	16
14	Biological signal generators: integrating synthetic biology tools and in silico control. Current Opinion in Systems Biology, 2019, 14, 58-65.	2.6	14
15	Robust network structure of the Sln1-Ypd1-Ssk1 three-component phospho-relay prevents unintended activation of the HOG MAPK pathway in Saccharomyces cerevisiae. BMC Systems Biology, 2015, 9, 17.	3.0	13
16	Easy calibration of the Light Plate Apparatus for optogenetic experiments. MethodsX, 2019, 6, 1480-1488.	1.6	11
17	Automated calibration of optoPlate LEDs to reduce light dose variation in optogenetic experiments. BioTechniques, 2020, 69, 313-316.	1.8	10
18	Optogenetic Tools for Control of Public Goods in Saccharomyces cerevisiae. MSphere, 2021, 6, e0058121.	2.9	10

#	Article	IF	Citations
19	In vivo measurement of signaling cascade dynamics. Cell Cycle, 2009, 8, 373-376.	2.6	7
20	Design and Implementation of an Automated Illuminating, Culturing, and Sampling System for Microbial Optogenetic Applications. Journal of Visualized Experiments, 2017, , .	0.3	7
21	Measuring In Vivo Signaling Kinetics in a Mitogen-Activated Kinase Pathway Using Dynamic Input Stimulation. Methods in Molecular Biology, 2011, 734, 101-119.	0.9	5
22	Engineered bacteria self-organize to sense pressure. Nature Biotechnology, 2017, 35, 1045-1047.	17.5	4
23	Design and implementation of a microfluidic device capable of temporal growth factor delivery reveal filtering capabilities of the EGFR/ERK pathway. APL Bioengineering, 2021, 5, 046101.	6.2	4
24	Secrete to beat the heat. Nature Microbiology, 2020, 5, 883-884.	13.3	3
25	Microfluidic Platforms for Generating Dynamic Environmental Perturbations to Study the Responses of Single Yeast Cells. Methods in Molecular Biology, 2014, 1205, 111-129.	0.9	2
26	A Microfluidic Device for Imaging Samples from Microbial Suspension Cultures. MethodsX, 2020, 7, 100891.	1.6	2
27	Shining light on molecular communication. , 2020, 2020, .		1
28	Give and take in the exometabolome. Nature Microbiology, 2022, 7, 484-485.	13.3	0
29	Evaluation of Benzinger etÂal.: Optogenetic circuits for dynamic signal processing. Cell Systems, 2022, 13, 347-348.	6.2	0