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	Give and take in the exometabolome. Nature Microbiology, 2022, 7, 484-485.	13.3	0
2	Evaluation of Benzinger etÂal.: Optogenetic circuits for dynamic signal processing. Cell Systems, 2022, 13, 347-348.	6.2	0
3	Optogenetic Tools for Control of Public Goods in Saccharomyces cerevisiae. MSphere, 2021, 6, e0058121.	2.9	10
4	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
5	A yeast optogenetic toolkit (yOTK) for gene expression control in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2020, 117, 886-893.	3.3	38
6	Automated calibration of optoPlate LEDs to reduce light dose variation in optogenetic experiments. BioTechniques, 2020, 69, 313-316.	1.8	10
7	A Microfluidic Device for Imaging Samples from Microbial Suspension Cultures. MethodsX, 2020, 7, 100891.	1.6	2
8	Secrete to beat the heat. Nature Microbiology, 2020, 5, 883-884.	13.3	3
9	Under oil open-channel microfluidics empowered by exclusive liquid repellency. Science Advances, 2020, 6, eaay9919.	10.3	34
10	Shining light on molecular communication. , 2020, 2020, .		1
11	Easy calibration of the Light Plate Apparatus for optogenetic experiments. MethodsX, 2019, 6, 1480-1488.	1.6	11
12	Optogenetic Repressors of Gene Expression in Yeasts Using Light-Controlled Nuclear Localization. Cellular and Molecular Bioengineering, 2019, 12, 511-528.	2.1	16
13	Biological signal generators: integrating synthetic biology tools and in silico control. Current Opinion in Systems Biology, 2019, 14, 58-65.	2.6	14
14	Engineered bacteria self-organize to sense pressure. Nature Biotechnology, 2017, 35, 1045-1047.	17.5	4
15	Design and Implementation of an Automated Illuminating, Culturing, and Sampling System for Microbial Optogenetic Applications. Journal of Visualized Experiments, 2017, , .	0.3	7
16	Single-cell RNA sequencing reveals intrinsic and extrinsic regulatory heterogeneity in yeast responding to stress. PLoS Biology, 2017, 15, e2004050.	5.6	118
17	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
18	Real-time optogenetic control of intracellular protein concentration in microbial cell cultures. Integrative Biology (United Kingdom), 2014, 6, 366.	1.3	68

#	Article	IF	Citations
19	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
20	A New System for Comparative Functional Genomics of Saccharomyces Yeasts. Genetics, 2013, 195, 275-287.	2.9	27
21	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
22	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
23	Visualization and Analysis of mRNA Molecules Using Fluorescence In Situ Hybridization in Saccharomyces cerevisiae. Journal of Visualized Experiments, 2013, , e50382.	0.3	17
24	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
25	The Dynamical Systems Properties of the HOG Signaling Cascade. Journal of Signal Transduction, 2011, 2011, 1-12.	2.0	22
26	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
27	In vivo measurement of signaling cascade dynamics. Cell Cycle, 2009, 8, 373-376.	2.6	7
28	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
29	Cross-talk and decision making in MAP kinase pathways. Nature Genetics, 2007, 39, 409-414.	21.4	134