Caroline Beck Adiels

List of Publications by Year
in descending order

29 papers	648 citations	623734 14 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	911 citing authors

#	Article	IF	Citations
1	Liver-on-a-chip devices: the pros and cons of complexity. American Journal of Physiology - Renal Physiology, 2022, 323, G188-G204.	3.4	12
2	Fast and Accurate Nanoparticle Characterization Using Deep-Learning-Enhanced Off-Axis Holography. ACS Nano, 2021, 15, 2240-2250.	14.6	28
3	Intercellular communication induces glycolytic synchronization waves between individually oscillating cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2010075118.	7.1	12
4	Extracting quantitative biological information from bright-field cell images using deep learning. Biophysics Reviews, 2021, 2, .	2.7	18
5	Phosphofructokinase controls the acetaldehyde-induced phase shift in isolated yeast glycolytic oscillators. Biochemical Journal, 2019, 476, 353-363.	3.7	5
6	Studying Glycolytic Oscillations in Individual Yeast Cells by Combining Fluorescence Microscopy with Microfluidics and Optical Tweezers. Current Protocols in Cell Biology, 2019, 82, e70.	2.3	2
7	Applying Microfluidic Systems to Study Effects of Glucose at Single-Cell Level. Methods in Molecular Biology, 2018, 1713, 109-121.	0.9	4
8	Design and fabrication of a scalable liver-lobule-on-a-chip microphysiological platform. Biofabrication, 2017, 9, 015014.	7.1	105
9	The yeast osmostress response is carbon source dependent. Scientific Reports, 2017, 7, 990.	3.3	55
10	Single-cell study links metabolism with nutrient signaling and reveals sources of variability. BMC Systems Biology, 2017, 11, 59.	3.0	22
11	An optical tweezers, epi-fluorescence and microfluidic-setup for synchronization studies of glycolytic oscillations in living yeast cells. Proceedings of SPIE, 2016, , .	0.8	0
12	Entrainment of heterogeneous glycolytic oscillations in single cells. Scientific Reports, 2015, 5, 9404.	3.3	26
13	A Nonlinear Mixed Effects Approach for Modeling the Cell-To-Cell Variability of Mig1 Dynamics in Yeast. PLoS ONE, 2015, 10, e0124050.	2.5	25
14	A Single-Cell Study of a Highly Effective Hog1 Inhibitor for in Situ Yeast Cell Manipulation. Micromachines, 2014, 5, 81-96.	2.9	5
15	Yeast AMP-activated Protein Kinase Monitors Glucose Concentration Changes and Absolute Glucose Levels. Journal of Biological Chemistry, 2014, 289, 12863-12875.	3.4	38
16	Allosteric regulation of phosphofructokinase controls the emergence of glycolytic oscillations in isolated yeast cells. FEBS Journal, 2014, 281, 2784-2793.	4.7	33
17	Heterogeneity of glycolytic oscillatory behaviour in individual yeast cells. FEBS Letters, 2014, 588, 3-7.	2.8	11
18	Inhibition of MAPK Hog1 Results in Increased Hsp104 Aggregate Formation Probably through Elevated Arsenite Influx into the Cells, an Approach with Numerous Potential Applications. American Journal of Molecular Biology, 2014, 04, 59-91.	0.3	1

#	Article	IF	Citations
19	Combining Optical Tweezers and Microfluidics for Studies of Glycolytic Oscillations in Single Yeast Cells. , 2014, , .		0
20	Design and fabrication of high-throughput application-specific microfluidic devices for studying single-cell responses to extracellular perturbations. , 2013, , .		1
21	Osmostress-Induced Cell Volume Loss Delays Yeast Hog1 Signaling by Limiting Diffusion Processes and by Hog1-Specific Effects. PLoS ONE, 2013, 8, e80901.	2.5	43
22	Hydrodynamic Cell Trapping for High Throughput Single-Cell Applications. Micromachines, 2013, 4, 414-430.	2.9	23
23	Effect of External Acetaldehyde on Glycolytic Oscillations in Individual Yeast Cells. , 2013, , .		0
24	Design and evaluation of a microfluidic system for inhibition studies of yeast cell signaling. Proceedings of SPIE, 2012, , .	0.8	1
25	Induction of sustained glycolytic oscillations in single yeast cells using microfluidics and optical tweezers. , 2012, , .		5
26	Sustained glycolytic oscillations in individual isolated yeast cells. FEBS Journal, 2012, 279, 2837-2847.	4.7	64
27	Epigallocatechin gallate increases the formation of cytosolic lipid droplets and decreases the secretion of apoB-100 VLDL. Journal of Lipid Research, 2006, 47, 67-77.	4.2	30
28	Relation of the size and intracellular sorting of apoB to the formation of VLDL 1 and VLDL 2. Journal of Lipid Research, 2005, 46, 104-114.	4.2	44
29	Tissue-Specific Targeting for Cardiovascular Gene Transfer. Potential Vectors and Future Challenges. Current Gene Therapy, 2004, 4, 457-467.	2.0	35