Jens B Nielsen

List of Publications by Year
in descending order

895 papers	85,682 citations	511 128 h-index	932 240 g-index
1010 all docs	1010 docs citations	1010 times ranked	79571 citing authors

#	Article	IF	Citations
1	Multiscale models quantifying yeast physiology: towards a whole-cell model. Trends in Biotechnology, 2022, 40, 291-305.	9.3	20
2	Microbial production of chemicals driven by CRISPR-Cas systems. Current Opinion in Biotechnology, 2022, 73, 34-42.	6.6	16
3	Professor John Villadsen, PhD, Dr. techn., Dr. h. c. mult (12.6.1936â€"22.7.2021). Biotechnology and Bioengineering, 2022, 119, 7-8.	3.3	0
4	Yeast synthetic biology advances biofuel production. Current Opinion in Microbiology, 2022, 65, 33-39.	5.1	21
5	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism. Gut, 2022, 71, 2463-2480.	12.1	53
6	Genome-scale modeling of yeast metabolism: retrospectives and perspectives. FEMS Yeast Research, 2022, 22, .	2.3	20
7	Yeast has evolved to minimize protein resource cost for synthesizing amino acids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	11
8	Analysis of normal levels of free glycosaminoglycans in urine and plasma in adults. Journal of Biological Chemistry, 2022, 298, 101575.	3.4	13
9	Multiomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis. Advanced Science, 2022, 9, e2104373.	11.2	23
10	Whole-cell modeling in yeast predicts compartment-specific proteome constraints that drive metabolic strategies. Nature Communications, 2022, 13, 801.	12.8	47
11	Microbiome and metabolome features of the cardiometabolic disease spectrum. Nature Medicine, 2022, 28, 303-314.	30.7	102
12	Identification of a novel gene required for competitive growth at high temperature in the thermotolerant yeast Kluyveromyces marxianus. Microbiology (United Kingdom), 2022, 168, .	1.8	5
13	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma. Cancers, 2022, 14, 1573.	3.7	8
14	Prediction of drug candidates for clear cell renal cell carcinoma using a systems biology-based drug repositioning approach. EBioMedicine, 2022, 78, 103963.	6.1	11
15	Mapping of Nonhomologous End Joining-Mediated Integration Facilitates Genome-Scale Trackable Mutagenesis in <i>Yarrowia lipolytica</i>. ACS Synthetic Biology, 2022, 11, 216-227.	3.8	14
16	Innovation trends in industrial biotechnology. Trends in Biotechnology, 2022, 40, 1160-1172.	9.3	30
17	The integration of bio-catalysis and electrocatalysis to produce fuels and chemicals from carbon dioxide. Chemical Society Reviews, 2022, 51, 4763-4785.	38.1	32
18	Improving recombinant protein production by yeast through genome-scale modeling using proteome constraints. Nature Communications, 2022, 13, .	12.8	18

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19	Proteome allocations change linearly with the specific growth rate of Saccharomyces cerevisiae under glucose limitation. Nature Communications, 2022, 13, .	12.8	28
20	Multi-omics analyses of the transition to the Crabtree effect in S. cerevisiae reveals a key role for the citric acid shuttle. FEMS Yeast Research, 2022, 22, .	2.3	2
21	Enhanced metabolism and negative regulation of ER stress support higher erythropoietin production in HEK293 cells. Cell Reports, 2022, 39, 110936.	6.4	4
22	Rewiring regulation on respiro-fermentative metabolism relieved Crabtree effects in Saccharomyces cerevisiae. Synthetic and Systems Biotechnology, 2022, 7, 1034-1043.	3.7	6
23	Reconstruction of a catalogue of genome-scale metabolic models with enzymatic constraints using GECKO 2.0. Nature Communications, 2022, 13, .	12.8	39
24	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
25	Genome-scale modeling drives 70-fold improvement of intracellular heme production in <i>Saccharomyces cerevisiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	29
26	Plasma and Urine Free Glycosaminoglycans as Monitoring Biomarkers in Nonmetastatic Renal Cell Carcinomaâ€"A Prospective Cohort Study. European Urology Open Science, 2022, 42, 30-39.	0.4	5
27	The Translational Status of Cancer Liquid Biopsies. Regenerative Engineering and Translational Medicine, 2021, 7, 312-352.	2.9	39
28	Addressing the heterogeneity in liver diseases using biological networks. Briefings in Bioinformatics, 2021, 22, 1751-1766.	6.5	9
29	A systems biology approach to understand gut microbiota and host metabolism in morbid obesity: design of the BARIA Longitudinal Cohort Study. Journal of Internal Medicine, 2021, 289, 340-354.	6.0	28
30	Systems biology based drug repositioning for development of cancer therapy. Seminars in Cancer Biology, 2021, 68, 47-58.	9.6	54
31	Performance of Regression Models as a Function of Experiment Noise. Bioinformatics and Biology Insights, 2021, 15, 117793222110203.	2.0	9
32	Bayesian genome scale modelling identifies thermal determinants of yeast metabolism. Nature Communications, 2021, 12, 190.	12.8	25
33	Production of 10-methyl branched fatty acids in yeast. Biotechnology for Biofuels, 2021, 14, 12.	6.2	14
34	Transcriptomic response of <i>Saccharomyces cerevisiae</i> to octanoic acid production. FEMS Yeast Research, 2021, 21, .	2.3	4
35	Yeast based biorefineries for oleochemical production. Current Opinion in Biotechnology, 2021, 67, 26-34.	6.6	21
36	Benchmarking accuracy and precision of intensityâ€based absolute quantification of protein abundances in <i>Saccharomyces cerevisiae</i>. Proteomics, 2021, 21, e2000093.	2.2	13

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37	Mathematical modeling of proteome constraints within metabolism. Current Opinion in Systems Biology, 2021, 25, 50-56.	2.6	36
38	Production of β‐carotene in <i>Saccharomyces cerevisiae</i> through altering yeast lipid metabolism. Biotechnology and Bioengineering, 2021, 118, 2043-2052.	3.3	30
39	Quantifying absolute gene expression profiles reveals distinct regulation of central carbon metabolism genes in yeast. ELife, 2021, 10, .	6.0	21
40	Expression of fungal biosynthetic gene clusters in S. cerevisiae for natural product discovery. Synthetic and Systems Biotechnology, 2021, 6, 20-22.	3.7	6
41	CODY enables quantitatively spatiotemporal predictions on in vivo gut microbial variability induced by diet intervention. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
42	Yeast optimizes metal utilization based on metabolic network and enzyme kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
43	Fatty acid synthesis is required for breast cancer brain metastasis. Nature Cancer, 2021, 2, 414-428.	13.2	147
44	Machine learning-based investigation of the cancer protein secretory pathway. PLoS Computational Biology, 2021, 17, e1008898.	3.2	7
45	iNetModels 2.0: an interactive visualization and database of multi-omics data. Nucleic Acids Research, 2021, 49, W271-W276.	14.5	25
46	A novel yeast hybrid modeling framework integrating Boolean and enzyme-constrained networks enables exploration of the interplay between signaling and metabolism. PLoS Computational Biology, 2021, 17, e1008891.	3.2	16
47	Proteome constraints reveal targets for improving microbial fitness in nutrient‐rich environments. Molecular Systems Biology, 2021, 17, e10093.	7.2	46
48	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. Frontiers in Pharmacology, 2021, 12, 643179.	3.5	3
49	Draft Genome Sequences of Five Fungal Strains Isolated from Kefir. Microbiology Resource Announcements, 2021, 10, e0019521.	0.6	1
50	GTR 2.0: gRNA-tRNA Array and Cas9-NG Based Genome Disruption and Single-Nucleotide Conversion in <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2021, 10, 1328-1337.	3.8	10
51	Strategies and challenges with the microbial conversion of methanol to high‐value chemicals. Biotechnology and Bioengineering, 2021, 118, 3655-3668.	3.3	12
52	Engineering yeast metabolism for the discovery and production of polyamines and polyamine analogues. Nature Catalysis, 2021, 4, 498-509.	34.4	26
53	BUTTERFLY: addressing the pooled amplification paradox with unique molecular identifiers in single-cell RNA-seq. Genome Biology, 2021, 22, 174.	8.8	5
54	Combined Metabolic Activators Accelerates Recovery in Mild‐to‐Moderate COVID‐19. Advanced Science, 2021, 8, e2101222.	11.2	49

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55	Genome-scale insights into the metabolic versatility of Limosilactobacillus reuteri. BMC Biotechnology, 2021, 21, 46.	3.3	8
56	Genome-scale metabolic network reconstruction of model animals as a platform for translational research. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
57	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756.	19.0	403
58	Rational gRNA design based on transcription factor binding data. Synthetic Biology, 2021, 6, ysab014.	2.2	0
59	Analytical performance of a standardized kit for mass spectrometry-based measurements of human glycosaminoglycans. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1177, 122761.	2.3	8
60	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. IScience, 2021, 24, 102722.	4.1	8
61	Expression of antibody fragments in Saccharomyces cerevisiae strains evolved for enhanced protein secretion. Microbial Cell Factories, 2021, 20, 134.	4.0	21
62	Characterization of cross-species transcription and splicing from <i>Penicillium</i> to <i>Saccharomyces cerevisiae</i>. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	0
63	In vitro turnover numbers do not reflect in vivo activities of yeast enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
64	The yeastGemMap: A process diagram to assist yeast systems‒metabolic studies. Biotechnology and Bioengineering, 2021, 118, 4800-4814.	3.3	1
65	Metabolic network remodelling enhances yeast's fitness on xylose using aerobic glycolysis. Nature Catalysis, 2021, 4, 783-796.	34.4	23
66	A single chromosome strain of S. cerevisiae exhibits diminished ethanol metabolism and tolerance. BMC Genomics, 2021, 22, 688.	2.8	2
67	Metabolic cooperation and spatiotemporal niche partitioning in a kefir microbial community. Nature Microbiology, 2021, 6, 196-208.	13.3	138
68	De novo biosynthesis of bioactive isoflavonoids by engineered yeast cell factories. Nature Communications, 2021, 12, 6085.	12.8	62
69	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. Molecular Systems Biology, 2021, 17, e10459.	7.2	22
70	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. Molecular Systems Biology, 2021, 17, e10427.	7.2	17
71	Constraint-based modeling of yeast mitochondria reveals the dynamics of protein import and iron-sulfur cluster biogenesis. IScience, 2021, 24, 103294.	4.1	7
72	Microbial community dynamics revisited. Nature Computational Science, 2021, 1, 640-641.	8.0	2

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73	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. IScience, 2021, 24, 103222.	4.1	14
74	Synthetic Biology Advanced Natural Product Discovery. Metabolites, 2021, 11, 785.	2.9	8
75	Combinatorial, additive and dose-dependent drug–microbiome associations. Nature, 2021, 600, 500-505.	27.8	102
76	Adaptations in metabolism and protein translation give rise to the Crabtree effect in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	40
77	Pan-cancer analysis of the metabolic reaction network. Metabolic Engineering, 2020, 57, 51-62.	7.0	29
78	Metabolic Profiling and Compound-Class Identification Reveal Alterations in Serum Triglyceride Levels in Mice Immunized with Human Vaccine Adjuvant Alum. Journal of Proteome Research, 2020, 19, 269-278.	3.7	5
79	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. Nature Communications, 2020, 11, 68.	12.8	74
80	Engineering yeast phospholipid metabolism for de novo oleoylethanolamide production. Nature Chemical Biology, 2020, 16, 197-205.	8.0	16
81	Optimizing cultivation of Cordyceps militaris for fast growth and cordycepin overproduction using rational design of synthetic media. Computational and Structural Biotechnology Journal, 2020, 18, 1-8.	4.1	31
82	Yeast systems biology in understanding principles of physiology underlying complex human diseases. Current Opinion in Biotechnology, 2020, 63, 63-69.	6.6	7
83	Applications of Genome-Wide Screening and Systems Biology Approaches in Drug Repositioning. Cancers, 2020, 12, 2694.	3.7	14
84	Combining mechanistic and machine learning models for predictive engineering and optimization of tryptophan metabolism. Nature Communications, 2020, 11, 4880.	12.8	137
85	Advances in Metabolic Engineering of Saccharomyces cerevisiae for Cocoa Butter Equivalent Production. Frontiers in Bioengineering and Biotechnology, 2020, 8, 594081.	4.1	23
86	Promiscuous phosphoketolase and metabolic rewiring enables novel non-oxidative glycolysis in yeast for high-yield production of acetyl-CoA derived products. Metabolic Engineering, 2020, 62, 150-160.	7.0	30
87	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. Nature Communications, 2020, 11, 5881.	12.8	122
88	Deep learning suggests that gene expression is encoded in all parts of a co-evolving interacting gene regulatory structure. Nature Communications, 2020, 11, 6141.	12.8	83
89	Pathway engineering in yeast for synthesizing the complex polyketide bikaverin. Nature Communications, 2020, 11, 6197.	12.8	29
90	Different Routes of Protein Folding Contribute to Improved Protein Production in Saccharomyces cerevisiae. MBio, 2020, 11, .	4.1	12

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91	Rewiring Central Carbon Metabolism Ensures Increased Provision of Acetyl-CoA and NADPH Required for 3-OH-Propionic Acid Production. ACS Synthetic Biology, 2020, 9, 3236-3244.	3.8	36
92	Proteome reallocation from amino acid biosynthesis to ribosomes enables yeast to grow faster in rich media. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21804-21812.	7.1	44
93	Elucidating aromatic acid tolerance at low pH in *Saccharomyces cerevisiae* using adaptive laboratory evolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27954-27961.	7.1	40
94	Engineering carboxylic acid reductase for selective synthesis of medium-chain fatty alcohols in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22974-22983.	7.1	27
95	Sources of variation in cell-type RNA-Seq profiles. PLoS ONE, 2020, 15, e0239495.	2.5	20
96	Editorial: yeast synthetic biology. FEMS Yeast Research, 2020, 20, .	2.3	0
97	Expressing a cytosolic pyruvate dehydrogenase complex to increase free fatty acid production in Saccharomyces cerevisiae. Microbial Cell Factories, 2020, 19, 226.	4.0	19
98	Evolution from adherent to suspension: systems biology of HEK293 cell line development. Scientific Reports, 2020, 10, 18996.	3.3	49
99	Stress-induced expression is enriched for evolutionarily young genes in diverse budding yeasts. Nature Communications, 2020, 11, 2144.	12.8	24
100	Quantitative analysis of amino acid metabolism in liver cancer links glutamate excretion to nucleotide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10294-10304.	7.1	45
101	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. Nature, 2020, 581, 310-315.	27.8	283
102	Absolute yeast mitochondrial proteome quantification reveals trade-off between biosynthesis and energy generation during diauxic shift. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7524-7535.	7.1	92
103	Rewiring carbon flux in Escherichia coli using a bifunctional molecular switch. Metabolic Engineering, 2020, 61, 47-57.	7.0	34
104	Current Status of COVID-19 Therapies and Drug Repositioning Applications. IScience, 2020, 23, 101303.	4.1	77
105	Bioprospecting Through Cloning of Whole Natural Product Biosynthetic Gene Clusters. Frontiers in Bioengineering and Biotechnology, 2020, 8, 526.	4.1	14
106	Third-generation biorefineries as the means to produce fuels and chemicals from CO2. Nature Catalysis, 2020, 3, 274-288.	34.4	245
107	Exercise-Mediated Lowering of Glutamine Availability Suppresses Tumor Growth and Attenuates Muscle Wasting. IScience, 2020, 23, 100978.	4.1	10
108	Molecular natural history of breast cancer: Leveraging transcriptomics to predict breast cancer progression and aggressiveness. Cancer Medicine, 2020, 9, 3551-3562.	2.8	8

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109	Building blocks are synthesized on demand during the yeast cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7575-7583.	7.1	32
110	An atlas of human metabolism. Science Signaling, 2020, 13, .	3.6	223
111	The transcription factor Leu3 shows differential binding behavior in response to changing leucine availability. FEMS Microbiology Letters, 2020, 367, .	1.8	1
112	Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Rosmarinic Acid Production. ACS Synthetic Biology, 2020, 9, 1978-1988.	3.8	25
113	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
114	Current state of aromatics production using yeast: achievements and challenges. Current Opinion in Biotechnology, 2020, 65, 65-74.	6.6	35
115	Multidimensional engineering of Saccharomyces cerevisiae for efficient synthesis of medium-chain fatty acids. Nature Catalysis, 2020, 3, 64-74.	34.4	80
116	Comprehensive understanding of <i>Saccharomyces cerevisiae</i> phenotypes with whole‐cell model WM_S288C. Biotechnology and Bioengineering, 2020, 117, 1562-1574.	3.3	23
117	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against non‐alcoholic fatty liver disease. Molecular Systems Biology, 2020, 16, e9495.	7.2	39
118	Improvement in the Current Therapies for Hepatocellular Carcinoma Using a Systems Medicine Approach. Advanced Biology, 2020, 4, e2000030.	3.0	7
119	Nitrogen limitation reveals large reserves in metabolic and translational capacities of yeast. Nature Communications, 2020, 11, 1881.	12.8	51
120	Meta-analysis of the gut microbiota in predicting response to cancer immunotherapy in metastatic melanoma. JCI Insight, 2020, 5, .	5.0	85
121	DSAVE: Detection of misclassified cells in single-cell RNA-Seq data. PLoS ONE, 2020, 15, e0243360.	2.5	2
122	Integrated Metabolic Modeling, Culturing, and Transcriptomics Explain Enhanced Virulence of Vibrio cholerae during Coinfection with Enterotoxigenic Escherichia coli. MSystems, 2020, 5, .	3.8	8
123	A consensus S. cerevisiae metabolic model Yeast8 and its ecosystem for comprehensively probing cellular metabolism. Nature Communications, 2019, 10, 3586.	12.8	217
124	Expanding the Dynamic Range of a Transcription Factor-Based Biosensor in <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2019, 8, 1968-1975.	3.8	44
125	FadR-Based Biosensor-Assisted Screening for Genes Enhancing Fatty Acyl-CoA Pools in <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2019, 8, 1788-1800.	3.8	44
126	ChIP-exo analysis highlights Fkh1 and Fkh2 transcription factors as hubs that integrate multi-scale networks in budding yeast. Nucleic Acids Research, 2019, 47, 7825-7841.	14.5	11

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127	Modelling approaches for studying the microbiome. Nature Microbiology, 2019, 4, 1253-1267.	13.3	114
128	Metagenomic analysis of bile salt biotransformation in the human gut microbiome. BMC Genomics, 2019, 20, 517.	2.8	44
129	Systems biology perspective for studying the gut microbiota in human physiology and liver diseases. EBioMedicine, 2019, 49, 364-373.	6.1	25
130	Big data in yeast systems biology. FEMS Yeast Research, 2019, 19, .	2.3	15
131	Carbohydrate active enzymes are affected by diet transition from milk to solid food in infant gut microbiota. FEMS Microbiology Ecology, 2019, 95, .	2.7	10
132	Identification and characterisation of two high-affinity glucose transporters from the spoilage yeast *Brettanomyces bruxellensis*. FEMS Microbiology Letters, 2019, 366, .	1.8	9
133	Complex I is bypassed during high intensity exercise. Nature Communications, 2019, 10, 5072.	12.8	32
134	Reconstruction and analysis of a Kluyveromyces marxianus genome-scale metabolic model. BMC Bioinformatics, 2019, 20, 551.	2.6	38
135	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. Nature Communications, 2019, 10, 4976.	12.8	177
136	Metabolic engineering and transcriptomic analysis of Saccharomyces cerevisiae producing p-coumaric acid from xylose. Microbial Cell Factories, 2019, 18, 191.	4.0	26
137	Genome-scale model of *Rhodotorula toruloides* metabolism. Biotechnology and Bioengineering, 2019, 116, 3396-3408.	3.3	55
138	Yeast cells handle stress by reprogramming their metabolism. Nature, 2019, 572, 184-185.	27.8	8
139	A bioinformatic pipeline to analyze ChIP-exo datasets. Biology Methods and Protocols, 2019, 4, bpz011.	2.2	3
140	Adaptive laboratory evolution of tolerance to dicarboxylic acids in Saccharomyces cerevisiae. Metabolic Engineering, 2019, 56, 130-141.	7.0	63
141	The pan-genome of Saccharomyces cerevisiae. FEMS Yeast Research, 2019, 19, .	2.3	12
142	Model-Assisted Fine-Tuning of Central Carbon Metabolism in Yeast through dCas9-Based Regulation. ACS Synthetic Biology, 2019, 8, 2457-2463.	3.8	39
143	Construction of mini-chemostats for high-throughput strain characterization. Biotechnology and Bioengineering, 2019, 116, 1029-1038.	3.3	16
144	SLIMEr: probing flexibility of lipid metabolism in yeast with an improved constraint-based modeling framework. BMC Systems Biology, 2019, 13, 4.	3.0	43

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145	Antibiotic Lethality Is Impacted by Nutrient Availabilities: New Insights from Machine Learning. Cell, 2019, 177, 1373-1374.	28.9	1
146	Engineering <i>Saccharomyces cerevisiae</i> cells for production of fatty acid-derived biofuels and chemicals. Open Biology, 2019, 9, 190049.	3.6	56
147	Dysregulated autophagy in muscle precursor cells from humans with type 2 diabetes. Scientific Reports, 2019, 9, 8169.	3.3	16
148	Proteome analysis of xylose metabolism in Rhodotorula toruloides during lipid production. Biotechnology for Biofuels, 2019, 12, 137.	6.2	61
149	Recent trends in metabolic engineering of microbial chemical factories. Current Opinion in Biotechnology, 2019, 60, 188-197.	6.6	88
150	Machine Learning Applied to Predicting Microorganism Growth Temperatures and Enzyme Catalytic Optima. ACS Synthetic Biology, 2019, 8, 1411-1420.	3.8	100
151	Comparative Transcriptome Analysis Shows Conserved Metabolic Regulation during Production of Secondary Metabolites in Filamentous Fungi. MSystems, 2019, 4, .	3.8	12
152	Cell factory engineering for improved production of natural products. Natural Product Reports, 2019, 36, 1233-1236.	10.3	37
153	RNAi expression tuning, microfluidic screening, and genome recombineering for improved protein production in <i>Saccharomyces cerevisiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9324-9332.	7.1	54
154	A gRNA-tRNA array for CRISPR-Cas9 based rapid multiplexed genome editing in Saccharomyces cerevisiae. Nature Communications, 2019, 10, 1053.	12.8	164
155	A Systematic Investigation of the Malignant Functions and Diagnostic Potential of the Cancer Secretome. Cell Reports, 2019, 26, 2622-2635.e5.	6.4	57
156	Simplified Intestinal Microbiota to Study Microbe-Diet-Host Interactions in a Mouse Model. Cell Reports, 2019, 26, 3772-3783.e6.	6.4	61
157	Strategies and challenges for metabolic rewiring. Current Opinion in Systems Biology, 2019, 15, 30-38.	2.6	27
158	Identification of genes involved in shea butter biosynthesis from Vitellaria paradoxa fruits through transcriptomics and functional heterologous expression. Applied Microbiology and Biotechnology, 2019, 103, 3727-3736.	3.6	19
159	Heterologous phosphoketolase expression redirects flux towards acetate, perturbs sugar phosphate pools and increases respiratory demand in Saccharomyces cerevisiae. Microbial Cell Factories, 2019, 18, 25.	4.0	27
160	Increasing jojoba-like wax ester production in Saccharomyces cerevisiae by enhancing very long-chain, monounsaturated fatty acid synthesis. Microbial Cell Factories, 2019, 18, 49.	4.0	20
161	Predictive models of eukaryotic transcriptional regulation reveals changes in transcription factor roles and promoter usage between metabolic conditions. Nucleic Acids Research, 2019, 47, 4986-5000.	14.5	20
162	Yeast Systems Biology: Model Organism and Cell Factory. Biotechnology Journal, 2019, 14, e1800421.	3.5	159

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163	Turnover Dependent Phenotypic Simulation: A Quantitative Constraint-Based Simulation Method That Accommodates All Main Strain Design Strategies. ACS Synthetic Biology, 2019, 8, 976-988.	3.8	1
164	Effects of overexpression of *STB5* in *Saccharomyces cerevisiae* on fatty acid biosynthesis, physiology and transcriptome. FEMS Yeast Research, 2019, 19, .	2.3	8
165	Harnessing xylose pathways for biofuels production. Current Opinion in Biotechnology, 2019, 57, 56-65.	6.6	71
166	Energy metabolism controls phenotypes by protein efficiency and allocation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17592-17597.	7.1	96
167	The human secretome. Science Signaling, 2019, 12, .	3.6	259
168	Comparative genomics study reveals Red Sea Bacillus with characteristics associated with potential microbial cell factories (MCFs). Scientific Reports, 2019, 9, 19254.	3.3	6
169	Tackling Cancer with Yeast-Based Technologies. Trends in Biotechnology, 2019, 37, 592-603.	9.3	35
170	Lipid engineering combined with systematic metabolic engineering of Saccharomyces cerevisiae for high-yield production of lycopene. Metabolic Engineering, 2019, 52, 134-142.	7.0	251
171	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. EBioMedicine, 2019, 40, 471-487.	6.1	38
172	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. Metabolic Engineering, 2019, 52, 263-272.	7.0	37
173	*Saccharomyces cerevisiae* displays a stable transcription start site landscape in multiple conditions. FEMS Yeast Research, 2019, 19, .	2.3	10
174	Synthetic Biology of Yeast. Biochemistry, 2019, 58, 1511-1520.	2.5	28
175	Genome-Scale Metabolic Modeling from Yeast to Human Cell Models of Complex Diseases: Latest Advances and Challenges. Methods in Molecular Biology, 2019, 2049, 329-345.	0.9	14
176	Recon3D enables a three-dimensional view of gene variation in human metabolism. Nature Biotechnology, 2018, 36, 272-281.	17.5	520
177	Targeting CDK 2 overcomes melanoma resistance against BRAF and Hsp90 inhibitors. Molecular Systems Biology, 2018, 14, e7858.	7.2	53
178	Metabolite secretion in microorganisms: the theory of metabolic overflow put to the test. Metabolomics, 2018, 14, 43.	3.0	66
179	Systems biology in hepatology: approaches and applications. Nature Reviews Gastroenterology and Hepatology, 2018, 15, 365-377.	17.8	117
180	Metabolite Depletion Affects Flux Profiling of Cell Lines. Trends in Biochemical Sciences, 2018, 43, 395-397.	7.5	8

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181	Metabolic engineering of Saccharomyces cerevisiae for overproduction of triacylglycerols. Metabolic Engineering Communications, 2018, 6, 22-27.	3.6	63
182	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. Cell Metabolism, 2018, 27, 559-571.e5.	16.2	321
183	Complete genomic and transcriptional landscape analysis using third-generation sequencing: a case study of Saccharomyces cerevisiae CEN.PK113-7D. Nucleic Acids Research, 2018, 46, e38-e38.	14.5	116
184	Redirection of lipid flux toward phospholipids in yeast increases fatty acid turnover and secretion. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1262-1267.	7.1	51
185	Advancing biotechnology with CRISPR/Cas9: recent applications and patent landscape. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 467-480.	3.0	23
186	Engineering 1-Alkene Biosynthesis and Secretion by Dynamic Regulation in Yeast. ACS Synthetic Biology, 2018, 7, 584-590.	3.8	59
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