

# Zihe Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

418  
papers

23,400  
citations

72  
h-index

143  
g-index

460  
ext. papers

31,756  
ext. citations

9.9  
avg, IF

7.55  
L-index

#	Paper	IF	Citations
4 <sup>18</sup>	Genome-scale modeling of yeast metabolism: retrospectives and perspectives.. <i>FEMS Yeast Research</i> , <b>2022</b> ,	3.1	1
4 <sup>17</sup>	Analysis of Normal Levels of Free Glycosaminoglycans in Urine and Plasma in Adults.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101575	5.4	3
4 <sup>16</sup>	Multiomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis.. <i>Advanced Science</i> , <b>2022</b> , e2104373	13.6	3
4 <sup>15</sup>	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism.. <i>Gut</i> , <b>2022</b> ,	19.2	5
4 <sup>14</sup>	Microbiome and metabolome features of the cardiometabolic disease spectrum.. <i>Nature Medicine</i> , <b>2022</b> ,	50.5	4
4 <sup>13</sup>	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma.. <i>Cancers</i> , <b>2022</b> , 14,	6.6	1
4 <sup>12</sup>	Prediction of drug candidates for clear cell renal cell carcinoma using a systems biology-based drug repositioning approach.. <i>EBioMedicine</i> , <b>2022</b> , 78, 103963	8.8	1
4 <sup>11</sup>	Innovation trends in industrial biotechnology.. <i>Trends in Biotechnology</i> , <b>2022</b> ,	15.1	2
4 <sup>10</sup>	Combinatorial, additive and dose-dependent drug-microbiome associations. <i>Nature</i> , <b>2021</b> ,	50.4	11
4 <sup>09</sup>	Synthetic Biology Advanced Natural Product Discovery. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	1
4 <sup>08</sup>	De novo biosynthesis of bioactive isoflavonoids by engineered yeast cell factories. <i>Nature Communications</i> , <b>2021</b> , 12, 6085	17.4	9
4 <sup>07</sup>	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10459	12.2	5
4 <sup>06</sup>	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10427	12.2	2
4 <sup>05</sup>	Constraint-based modeling of yeast mitochondria reveals the dynamics of protein import and iron-sulfur cluster biogenesis. <i>IScience</i> , <b>2021</b> , 24, 103294	6.1	0
4 <sup>04</sup>	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. <i>IScience</i> , <b>2021</b> , 24, 103222	6.1	2
4 <sup>03</sup>	Yeast synthetic biology advances biofuel production. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 65, 33-39	7.9	1
4 <sup>02</sup>	Mathematical modeling of proteome constraints within metabolism. <i>Current Opinion in Systems Biology</i> , <b>2021</b> , 25, 50-56	3.2	8

401	Production of $\beta$ -carotene in <i>Saccharomyces cerevisiae</i> through altering yeast lipid metabolism. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2043-2052	4.9	8
400	Quantifying absolute gene expression profiles reveals distinct regulation of central carbon metabolism genes in yeast. <i>ELife</i> , <b>2021</b> , 10,	8.9	4
399	Expression of fungal biosynthetic gene clusters in for natural product discovery. <i>Synthetic and Systems Biotechnology</i> , <b>2021</b> , 6, 20-22	4.2	2
398	CODY enables quantitatively spatiotemporal predictions on in vivo gut microbial variability induced by diet intervention. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
397	Yeast optimizes metal utilization based on metabolic network and enzyme kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
396	Revealing the Metabolic Alterations during Biofilm Development of Based on Genome-Scale Metabolic Modeling. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	1
395	FATTY ACID SYNTHESIS IS REQUIRED FOR BREAST CANCER BRAIN METASTASIS. <i>Nature Cancer</i> , <b>2021</b> , 2, 414-428	15.4	31
394	Machine learning-based investigation of the cancer protein secretory pathway. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008898	5	1
393	iNetModels 2.0: an interactive visualization and database of multi-omics data. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, W271-W276	20.1	8
392	A novel yeast hybrid modeling framework integrating Boolean and enzyme-constrained networks enables exploration of the interplay between signaling and metabolism. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008891	5	3
391	Proteome constraints reveal targets for improving microbial fitness in nutrient-rich environments. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10093	12.2	6
390	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 643179	5.6	0
389	Draft Genome Sequences of Five Fungal Strains Isolated from Kefir. <i>Microbiology Resource Announcements</i> , <b>2021</b> , 10, e0019521	1.3	
388	GTR 2.0: gRNA-tRNA Array and Cas9-NG Based Genome Disruption and Single-Nucleotide Conversion in. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 1328-1337	5.7	3
387	Couitilization of glucose and acetate for the production of pyruvate by engineered <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , <b>2021</b> , 170, 107990	4.2	1
386	Proteome Constraints in Genome-Scale Models <b>2021</b> , 137-152		
385	Metabolic Engineering of Yeast <b>2021</b> , 689-733		0
384	Strategies and challenges with the microbial conversion of methanol to high-value chemicals. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 3655-3668	4.9	1

383	BUTTERFLY: addressing the pooled amplification paradox with unique molecular identifiers in single-cell RNA-seq. <i>Genome Biology</i> , <b>2021</b> , 22, 174	18.3	1
382	Combined Metabolic Activators Accelerates Recovery in Mild-to-Moderate COVID-19. <i>Advanced Science</i> , <b>2021</b> , 8, e2101222	13.6	11
381	Yeasts as microbial cell factories for sustainable production of biofuels. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 143, 110907	16.2	7
380	Kinetic Models of Metabolism <b>2021</b> , 153-170		
379	Genome-scale insights into the metabolic versatility of <i>Limosilactobacillus reuteri</i> . <i>BMC Biotechnology</i> , <b>2021</b> , 21, 46	3.5	1
378	Multiscale models quantifying yeast physiology: towards a whole-cell model. <i>Trends in Biotechnology</i> , <b>2021</b> ,	15.1	4
377	Genome-scale metabolic network reconstruction of model animals as a platform for translational research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
376	Rational gRNA design based on transcription factor binding data. <i>Synthetic Biology</i> , <b>2021</b> , 6, ysab014	3.3	
375	Analytical performance of a standardized kit for mass spectrometry-based measurements of human glycosaminoglycans. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2021</b> , 1177, 122761	3.2	3
374	Systems biology based drug repositioning for development of cancer therapy. <i>Seminars in Cancer Biology</i> , <b>2021</b> , 68, 47-58	12.7	28
373	Performance of Regression Models as a Function of Experiment Noise. <i>Bioinformatics and Biology Insights</i> , <b>2021</b> , 15, 11779322211020315	5.3	2
372	Bayesian genome scale modelling identifies thermal determinants of yeast metabolism. <i>Nature Communications</i> , <b>2021</b> , 12, 190	17.4	7
371	Discovery of Functional Alternatively Spliced Transcripts in Human Cancers. <i>Cancers</i> , <b>2021</b> , 13,	6.6	3
370	Production of 10-methyl branched fatty acids in yeast. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 12	7.8	4
369	Transcriptomic response of <i>Saccharomyces cerevisiae</i> to octanoic acid production. <i>FEMS Yeast Research</i> , <b>2021</b> , 21,	3.1	1
368	Yeast based biorefineries for oleochemical production. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 67, 26-34	11.4	5
367	Benchmarking accuracy and precision of intensity-based absolute quantification of protein abundances in <i>Saccharomyces cerevisiae</i> . <i>Proteomics</i> , <b>2021</b> , 21, e2000093	4.8	4
366	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. <i>IScience</i> , <b>2021</b> , 24, 102722	6.1	2

365	Expression of antibody fragments in <i>Saccharomyces cerevisiae</i> strains evolved for enhanced protein secretion. <i>Microbial Cell Factories</i> , <b>2021</b> , 20, 134	6.4	3
364	Protein Engineering by Efficient Sequence Space Exploration Through Combination of Directed Evolution and Computational Design Methodologies <b>2021</b> , 153-176		1
363	Data-driven Protein Engineering <b>2021</b> , 133-151		0
362	Programming Novel Cancer Therapeutics: Design Principles for Chimeric Antigen Receptors <b>2021</b> , 353-375		
361	Development of Novel Cellular Imaging Tools Using Protein Engineering <b>2021</b> , 377-402		
360	Iterative Saturation Mutagenesis for Semi-rational Enzyme Design <b>2021</b> , 105-132		2
359	High-Throughput Mass Spectrometry Complements Protein Engineering <b>2021</b> , 57-79		0
358	Recent Advances in Cell Surface Display Technologies for Directed Protein Evolution <b>2021</b> , 81-103		
357	In vitro turnover numbers do not reflect in vivo activities of yeast enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
356	The yeastGemMap: A process diagram to assist yeast systems-metabolic studies. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 4800-4814	4.9	
355	Metabolic network remodelling enhances yeast fitness on xylose using aerobic glycolysis. <i>Nature Catalysis</i> , <b>2021</b> , 4, 783-796	36.5	3
354	A single chromosome strain of <i>S. cerevisiae</i> exhibits diminished ethanol metabolism and tolerance. <i>BMC Genomics</i> , <b>2021</b> , 22, 688	4.5	0
353	Microbial production of chemicals driven by CRISPR-Cas systems. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 73, 34-42	11.4	1
352	Adaptations in metabolism and protein translation give rise to the Crabtree effect in yeast.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
351	Mapping of Nonhomologous End Joining-Mediated Integration Facilitates Genome-Scale Trackable Mutagenesis in .. <i>ACS Synthetic Biology</i> , <b>2021</b> ,	5.7	1
350	Expressing a cytosolic pyruvate dehydrogenase complex to increase free fatty acid production in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 226	6.4	4
349	Evolution from adherent to suspension: systems biology of HEK293 cell line development. <i>Scientific Reports</i> , <b>2020</b> , 10, 18996	4.9	22
348	Stress-induced expression is enriched for evolutionarily young genes in diverse budding yeasts. <i>Nature Communications</i> , <b>2020</b> , 11, 2144	17.4	7

347	Quantitative analysis of amino acid metabolism in liver cancer links glutamate excretion to nucleotide synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 10294-10304	11.5	19
346	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. <i>Nature</i> , <b>2020</b> , 581, 310-315	50.4	100
345	Absolute yeast mitochondrial proteome quantification reveals trade-off between biosynthesis and energy generation during diauxic shift. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7524-7535	11.5	31
344	Rewiring carbon flux in <i>Escherichia coli</i> using a bifunctional molecular switch. <i>Metabolic Engineering</i> , <b>2020</b> , 61, 47-57	9.7	13
343	Current Status of COVID-19 Therapies and Drug Repositioning Applications. <i>IScience</i> , <b>2020</b> , 23, 101303	6.1	54
342	Bioprospecting Through Cloning of Whole Natural Product Biosynthetic Gene Clusters. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 526	5.8	12
341	Third-generation biorefineries as the means to produce fuels and chemicals from CO <sub>2</sub> . <i>Nature Catalysis</i> , <b>2020</b> , 3, 274-288	36.5	94
340	Exercise-Mediated Lowering of Glutamine Availability Suppresses Tumor Growth and Attenuates Muscle Wasting. <i>IScience</i> , <b>2020</b> , 23, 100978	6.1	4
339	Molecular natural history of breast cancer: Leveraging transcriptomics to predict breast cancer progression and aggressiveness. <i>Cancer Medicine</i> , <b>2020</b> , 9, 3551-3562	4.8	3
338	Building blocks are synthesized on demand during the yeast cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7575-7583	11.5	12
337	An atlas of human metabolism. <i>Science Signaling</i> , <b>2020</b> , 13,	8.8	78
336	Classification of clear cell renal cell carcinoma based on alternative splicing. <i>Heliyon</i> , <b>2020</b> , 6, e03440	3.6	3
335	Current state of aromatics production using yeast: achievements and challenges. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 65, 65-74	11.4	20
334	Multidimensional engineering of <i>Saccharomyces cerevisiae</i> for efficient synthesis of medium-chain fatty acids. <i>Nature Catalysis</i> , <b>2020</b> , 3, 64-74	36.5	42
333	Comprehensive understanding of <i>Saccharomyces cerevisiae</i> phenotypes with whole-cell model WM_S288C. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1562-1574	4.9	12
332	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against non-alcoholic fatty liver disease. <i>Molecular Systems Biology</i> , <b>2020</b> , 16, e9495	12.2	16
331	The role of peroxisomes in xylose alcoholic fermentation in the engineered <i>Saccharomyces cerevisiae</i> . <i>Cell Biology International</i> , <b>2020</b> , 44, 1606-1615	4.5	4
330	Meta-analysis of the gut microbiota in predicting response to cancer immunotherapy in metastatic melanoma. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	23

329	DSAVE: Detection of misclassified cells in single-cell RNA-Seq data. <i>PLoS ONE</i> , <b>2020</b> , 15, e0243360	3.7	0
328	A systems biology approach for studying neurodegenerative diseases. <i>Drug Discovery Today</i> , <b>2020</b> , 25, 1146-1159	8.8	8
327	Nitrogen limitation reveals large reserves in metabolic and translational capacities of yeast. <i>Nature Communications</i> , <b>2020</b> , 11, 1881	17.4	16
326	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. <i>Nature Communications</i> , <b>2020</b> , 11, 68	17.4	37
325	Engineering yeast phospholipid metabolism for de novo oleoylethanolamide production. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 197-205	11.7	7
324	Optimizing cultivation of for fast growth and cordycepin overproduction using rational design of synthetic media. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 1-8	6.8	6
323	Perspective: Metabotyping-A Potential Personalized Nutrition Strategy for Precision Prevention of Cardiometabolic Disease. <i>Advances in Nutrition</i> , <b>2020</b> , 11, 524-532	10	22
322	Yeast systems biology in understanding principles of physiology underlying complex human diseases. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 63, 63-69	11.4	2
321	Applications of Genome-Wide Screening and Systems Biology Approaches in Drug Repositioning. <i>Cancers</i> , <b>2020</b> , 12,	6.6	8
320	Advances in Metabolic Engineering of for Cocoa Butter Equivalent Production. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 594081	5.8	13
319	Promiscuous phosphoketolase and metabolic rewiring enables novel non-oxidative glycolysis in yeast for high-yield production of acetyl-CoA derived products. <i>Metabolic Engineering</i> , <b>2020</b> , 62, 150-160 <sup>9</sup>	7	7
318	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. <i>Nature Communications</i> , <b>2020</b> , 11, 5881	17.4	29
317	Deep learning suggests that gene expression is encoded in all parts of a co-evolving interacting gene regulatory structure. <i>Nature Communications</i> , <b>2020</b> , 11, 6141	17.4	25
316	Pathway engineering in yeast for synthesizing the complex polyketide bikaverin. <i>Nature Communications</i> , <b>2020</b> , 11, 6197	17.4	11
315	Different Routes of Protein Folding Contribute to Improved Protein Production in <i>Saccharomyces cerevisiae</i> . <i>MBio</i> , <b>2020</b> , 11,	7.8	4
314	Rewiring Central Carbon Metabolism Ensures Increased Provision of Acetyl-CoA and NADPH Required for 3-OH-Propionic Acid Production. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 3236-3244	5.7	5
313	Proteome reallocation from amino acid biosynthesis to ribosomes enables yeast to grow faster in rich media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21804-21812	11.5	14
312	Elucidating aromatic acid tolerance at low pH in using adaptive laboratory evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27954-27961	11.5	15

311	Engineering carboxylic acid reductase for selective synthesis of medium-chain fatty alcohols in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 22974-22983	11.5	10
310	Sources of variation in cell-type RNA-Seq profiles. <i>PLoS ONE</i> , <b>2020</b> , 15, e0239495	3.7	4
309	Compositional and functional differences of the mucosal microbiota along the intestine of healthy individuals. <i>Scientific Reports</i> , <b>2020</b> , 10, 14977	4.9	26
308	Pan-cancer analysis of the metabolic reaction network. <i>Metabolic Engineering</i> , <b>2020</b> , 57, 51-62	9.7	13
307	Metabolic Profiling and Compound-Class Identification Reveal Alterations in Serum Triglyceride Levels in Mice Immunized with Human Vaccine Adjuvant Alum. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 269-278	5.6	2
306	Improvement in the Current Therapies for Hepatocellular Carcinoma Using a Systems Medicine Approach. <i>Advanced Biology</i> , <b>2020</b> , 4, e2000030	3.5	6
305	Harnessing Estradiol inducible expression system to overproduce nervonic acid in <i>Saccharomyces cerevisiae</i> . <i>Process Biochemistry</i> , <b>2020</b> , 92, 37-42	4.8	3
304	Versatile biomanufacturing through stimulus-responsive cell-material feedback. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 1017-1024	11.7	29
303	A bioinformatic pipeline to analyze CHIP-exo datasets. <i>Biology Methods and Protocols</i> , <b>2019</b> , 4, bpz011	2.4	3
302	Adaptive laboratory evolution of tolerance to dicarboxylic acids in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , <b>2019</b> , 56, 130-141	9.7	40
301	The pan-genome of <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	6
300	Model-Assisted Fine-Tuning of Central Carbon Metabolism in Yeast through dCas9-Based Regulation. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2457-2463	5.7	23
299	Construction of mini-chemostats for high-throughput strain characterization. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1029-1038	4.9	12
298	SLIMER: probing flexibility of lipid metabolism in yeast with an improved constraint-based modeling framework. <i>BMC Systems Biology</i> , <b>2019</b> , 13, 4	3.5	19
297	Antibiotic Lethality Is Impacted by Nutrient Availabilities: New Insights from Machine Learning. <i>Cell</i> , <b>2019</b> , 177, 1373-1374	56.2	1
296	Engineering <i>Saccharomyces cerevisiae</i> cells for production of fatty acid-derived biofuels and chemicals. <i>Open Biology</i> , <b>2019</b> , 9, 190049	7	29
295	Proteome analysis of xylose metabolism in during lipid production. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 137	7.8	32
294	Recent trends in metabolic engineering of microbial chemical factories. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 60, 188-197	11.4	55



293	Machine Learning Applied to Predicting Microorganism Growth Temperatures and Enzyme Catalytic Optima. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1411-1420	5.7	32
292	Comparative Transcriptome Analysis Shows Conserved Metabolic Regulation during Production of Secondary Metabolites in Filamentous Fungi. <i>MSystems</i> , <b>2019</b> , 4,	7.6	7
291	Crystal structure of the multifunctional SAM-dependent enzyme LepI provides insights into its catalytic mechanism. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 515, 255-260	3.4	3
290	Chromosomal genome assembly of the ethanol production strain CBS 11270 indicates a highly dynamic genome structure in the yeast species <i>Brettanomyces bruxellensis</i> . <i>PLoS ONE</i> , <b>2019</b> , 14, e0215077	3.7	7
289	Cell factory engineering for improved production of natural products. <i>Natural Product Reports</i> , <b>2019</b> , 36, 1233-1236	15.1	24
288	RNAi expression tuning, microfluidic screening, and genome recombineering for improved protein production in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 9324-9332	11.5	22
287	A gRNA-tRNA array for CRISPR-Cas9 based rapid multiplexed genome editing in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , <b>2019</b> , 10, 1053	17.4	78
286	A Systematic Investigation of the Malignant Functions and Diagnostic Potential of the Cancer Secretome. <i>Cell Reports</i> , <b>2019</b> , 26, 2622-2635.e5	10.6	28
285	Simplified Intestinal Microbiota to Study Microbe-Diet-Host Interactions in a Mouse Model. <i>Cell Reports</i> , <b>2019</b> , 26, 3772-3783.e6	10.6	35
284	Identification of genes involved in shea butter biosynthesis from <i>Vitellaria paradoxa</i> fruits through transcriptomics and functional heterologous expression. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 3727-3736	5.7	10
283	Heterologous phosphoketolase expression redirects flux towards acetate, perturbs sugar phosphate pools and increases respiratory demand in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 25	6.4	16
282	Metagenomic analysis of microbe-mediated vitamin metabolism in the human gut microbiome. <i>BMC Genomics</i> , <b>2019</b> , 20, 208	4.5	50
281	Increasing jojoba-like wax ester production in <i>Saccharomyces cerevisiae</i> by enhancing very long-chain, monounsaturated fatty acid synthesis. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 49	6.4	13
280	Predictive models of eukaryotic transcriptional regulation reveals changes in transcription factor roles and promoter usage between metabolic conditions. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 4986-5000	20.1	14
279	Turnover Dependent Phenotypic Simulation: A Quantitative Constraint-Based Simulation Method That Accommodates All Main Strain Design Strategies. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 976-988	5.7	
278	Effects of overexpression of STB5 in <i>Saccharomyces cerevisiae</i> on fatty acid biosynthesis, physiology and transcriptome. <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	6
277	A consensus <i>S. cerevisiae</i> metabolic model Yeast8 and its ecosystem for comprehensively probing cellular metabolism. <i>Nature Communications</i> , <b>2019</b> , 10, 3586	17.4	83
276	Expanding the Dynamic Range of a Transcription Factor-Based Biosensor in. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1968-1975	5.7	18

275	FadR-Based Biosensor-Assisted Screening for Genes Enhancing Fatty Acyl-CoA Pools in. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1788-1800	5.7	27
274	ChIP-exo analysis highlights Fkh1 and Fkh2 transcription factors as hubs that integrate multi-scale networks in budding yeast. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 7825-7841	20.1	5
273	Modelling approaches for studying the microbiome. <i>Nature Microbiology</i> , <b>2019</b> , 4, 1253-1267	26.6	56
272	Metagenomic analysis of bile salt biotransformation in the human gut microbiome. <i>BMC Genomics</i> , <b>2019</b> , 20, 517	4.5	26
271	Platform Technology for Therapeutic Protein Production <b>2019</b> , 1-22		2
270	Cell Line Development for Therapeutic Protein Production <b>2019</b> , 23-47		3
269	CHO Cell Engineering for Improved Process Performance and Product Quality <b>2019</b> , 207-250		2
268	Metabolite Profiling of Mammalian Cells <b>2019</b> , 251-277		
267	Current Considerations and Future Advances in Chemically Defined Medium Development for the Production of Protein Therapeutics in CHO Cells <b>2019</b> , 279-294		
266	Host Cell Proteins During Biomanufacturing <b>2019</b> , 295-311		3
265	Mammalian Fed-batch Cell Culture for Biopharmaceuticals <b>2019</b> , 313-345		1
264	Continuous Biomanufacturing <b>2019</b> , 347-364		1
263	Process Analytical Technology and Quality by Design for Animal Cell Culture <b>2019</b> , 365-390		1
262	Development and Qualification of a Cell Culture Scale-Down Model <b>2019</b> , 391-405		0
261	Transient Gene Expression-Based Protein Production in Recombinant Mammalian Cells <b>2019</b> , 49-72		1
260	Enhancing Product and Bioprocess Attributes Using Genome-Scale Models of CHO Metabolism <b>2019</b> , 73-95		1
259	Genome Variation, the Epigenome and Cellular Phenotypes <b>2019</b> , 97-126		1
258	Adaption of Generic Metabolic Models to Specific Cell Lines for Improved Modeling of Biopharmaceutical Production and Prediction of Processes <b>2019</b> , 127-162		

257	Toward Integrated Multi-omics Analysis for Improving CHO Cell Bioprocessing <b>2019</b> , 163-184		
256	CRISPR Toolbox for Mammalian Cell Engineering <b>2019</b> , 185-206		0
255	Systems biology perspective for studying the gut microbiota in human physiology and liver diseases. <i>EBioMedicine</i> , <b>2019</b> , 49, 364-373	8.8	13
254	Big data in yeast systems biology. <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	7
253	Carbohydrate active enzymes are affected by diet transition from milk to solid food in infant gut microbiota. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	6
252	Identification and characterisation of two high-affinity glucose transporters from the spoilage yeast <i>Brettanomyces bruxellensis</i> . <i>FEMS Microbiology Letters</i> , <b>2019</b> , 366,	2.9	7
251	Complex I is bypassed during high intensity exercise. <i>Nature Communications</i> , <b>2019</b> , 10, 5072	17.4	13
250	Reconstruction and analysis of a <i>Kluyveromyces marxianus</i> genome-scale metabolic model. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 551	3.6	21
249	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. <i>Nature Communications</i> , <b>2019</b> , 10, 4976	17.4	72
248	Assembly and Analysis of the Genome Sequence of the Yeast CBS 7540. <i>Microorganisms</i> , <b>2019</b> , 7,	4.9	4
247	Genome-scale model of <i>Rhodotorula toruloides</i> metabolism. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 3396-3408	4.9	29
246	Genome-Scale Metabolic Modeling from Yeast to Human Cell Models of Complex Diseases: Latest Advances and Challenges. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2049, 329-345	1.4	10
245	Harnessing xylose pathways for biofuels production. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 57, 56-65	11.4	38
244	Energy metabolism controls phenotypes by protein efficiency and allocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 17592-17597	11.5	42
243	The human secretome. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	99
242	The Translational Status of Cancer Liquid Biopsies. <i>Regenerative Engineering and Translational Medicine</i> , <b>2019</b> , 7, 312	2.4	16
241	Tackling Cancer with Yeast-Based Technologies. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 592-603	15.1	16
240	Lipid engineering combined with systematic metabolic engineering of <i>Saccharomyces cerevisiae</i> for high-yield production of lycopene. <i>Metabolic Engineering</i> , <b>2019</b> , 52, 134-142	9.7	139

239	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. <i>EBioMedicine</i> , <b>2019</b> , 40, 471-487	8.8	29
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237	<i>Saccharomyces cerevisiae</i> displays a stable transcription start site landscape in multiple conditions. <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	8
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227	Modulation of saturation and chain length of fatty acids in <i>Saccharomyces cerevisiae</i> for production of cocoa butter-like lipids. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 932-942	4.9	18
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177	Integrative Analysis of Omics Data <b>2017</b> , 1-24		3
176	Modeling the Dynamics of the Immune Response <b>2017</b> , 265-287		
175	Dynamics of Signal Transduction in Single Cells Quantified by Microscopy <b>2017</b> , 289-318		
174	Image-Based In silico Models of Organogenesis <b>2017</b> , 319-340		5
173	Progress toward Quantitative Design Principles of Multicellular Systems <b>2017</b> , 341-365		2
172	Precision Genome Editing for Systems Biology A Temporal Perspective <b>2017</b> , 367-392		
171	<sup>13</sup> C Flux Analysis in Biotechnology and Medicine <b>2017</b> , 25-70		3
170	Metabolic Modeling for Design of Cell Factories <b>2017</b> , 71-107		1
169	Genome-Scale Metabolic Modeling and In silico Strain Design of <i>Escherichia coli</i> <b>2017</b> , 109-137		2
168	Toward Genome-Scale Models of Signal Transduction Networks <b>2017</b> , 215-242		6

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