

Eduard J Kerkhoven

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,584
citations

257450

24
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

2609
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	Genome-scale metabolic model of oleaginous yeast Papiliotrema laurentii. Biochemical Engineering Journal, 2022, 180, 108353.	3.6	8
3	Improving recombinant protein production by yeast through genome-scale modeling using proteome constraints. Nature Communications, 2022, 13, .	12.8	18
4	Advances in constraint-based models: methods for improved predictive power based on resource allocation constraints. Current Opinion in Microbiology, 2022, 68, 102168.	5.1	9
5	Reconstruction of Genome-Scale Metabolic Model for Hansenula polymorpha Using RAVEN. Methods in Molecular Biology, 2022, , 271-290.	0.9	3
6	Reconstruction of a catalogue of genome-scale metabolic models with enzymatic constraints using GECKO 2.0. Nature Communications, 2022, 13, .	12.8	39
7	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
8	Evaluating accessibility, usability and interoperability of genome-scale metabolic models for diverse yeasts species. FEMS Yeast Research, 2021, 21, .	2.3	6
9	Reconstruction of a Genome-Scale Metabolic Model of Streptomyces albus J1074: Improved Engineering Strategies in Natural Product Synthesis. Metabolites, 2021, 11, 304.	2.9	12
10	Systems-level approaches for understanding and engineering of the oleaginous cell factory <i>Yarrowia lipolytica</i> . Biotechnology and Bioengineering, 2021, 118, 3640-3654.	3.3	11
11	The yeastGemMap: A process diagram to assist yeast systems-level metabolic studies. Biotechnology and Bioengineering, 2021, 118, 4800-4814.	3.3	1
12	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. Molecular Systems Biology, 2021, 17, e10427.	7.2	17
13	Constraint-based modeling of yeast mitochondria reveals the dynamics of protein import and iron-sulfur cluster biogenesis. Science, 2021, 24, 103294.	4.1	7
14	Editorial: Multi-Omics Technologies for Optimizing Synthetic Biomanufacturing. Frontiers in Bioengineering and Biotechnology, 2021, 9, 818010.	4.1	1
15	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
16	Nitrogen as the major factor influencing gene expression in <i>Yarrowia lipolytica</i> . Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00521.	4.4	18
17	An atlas of human metabolism. Science Signaling, 2020, 13, .	3.6	223
18	Extracting novel hypotheses and findings from RNA-seq data. FEMS Yeast Research, 2020, 20, .	2.3	6

#	ARTICLE	IF	CITATIONS
19	C/N ratio and carbon source-dependent lipid production profiling in <i>Rhodotorula toruloides</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 2639-2649.	3.6	71
20	Enzyme-Constrained Models and Omics Analysis of <i>Streptomyces coelicolor</i> Reveal Metabolic Changes that Enhance Heterologous Production. <i>IScience</i> , 2020, 23, 101525.	4.1	30
21	A consensus <i>S. cerevisiae</i> metabolic model Yeast8 and its ecosystem for comprehensively probing cellular metabolism. <i>Nature Communications</i> , 2019, 10, 3586.	12.8	217
22	Genome-scale model of <i>Rhodotorula toruloides</i> metabolism. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3396-3408.	3.3	55
23	SLIMER: probing flexibility of lipid metabolism in yeast with an improved constraint-based modeling framework. <i>BMC Systems Biology</i> , 2019, 13, 4.	3.0	43
24	Proteome analysis of xylose metabolism in <i>Rhodotorula toruloides</i> during lipid production. <i>Biotechnology for Biofuels</i> , 2019, 12, 137.	6.2	61
25	Mapping the metabolism of five amino acids in bloodstream form <i>Trypanosoma brucei</i> using U-13C-labelled substrates and LC-MS. <i>Bioscience Reports</i> , 2019, 39, .	2.4	17
26	Investigating the Influence of Glycerol on the Utilization of Glucose in <i>Yarrowia lipolytica</i> Using RNA-Seq-Based Transcriptomics. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 4059-4071.	1.8	17
27	Modeling Lipid Metabolism in Yeast. , 2019, , 375-388.		2
28	Regulation of Yeast-to-Hyphae Transition in <i>Yarrowia lipolytica</i> . <i>MSphere</i> , 2018, 3, .	2.9	35
29	Advancing metabolic engineering of <i>Yarrowia lipolytica</i> using the CRISPR/Cas system. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9541-9548.	3.6	43
30	RAVEN 2.0: A versatile toolbox for metabolic network reconstruction and a case study on <i>Streptomyces coelicolor</i> . <i>PLoS Computational Biology</i> , 2018, 14, e1006541.	3.2	228
31	Barriers and opportunities in bio-based production of hydrocarbons. <i>Nature Energy</i> , 2018, 3, 925-935.	39.5	146
32	A molecular genetic toolbox for <i>Yarrowia lipolytica</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 2.	6.2	62
33	Leucine Biosynthesis Is Involved in Regulating High Lipid Accumulation in <i>Yarrowia lipolytica</i> . <i>MBio</i> , 2017, 8, .	4.1	38
34	Improving the phenotype predictions of a yeast genome-scale metabolic model by incorporating enzymatic constraints. <i>Molecular Systems Biology</i> , 2017, 13, 935.	7.2	367
35	Regulation of amino-acid metabolism controls flux to lipid accumulation in <i>Yarrowia lipolytica</i> . <i>Npj Systems Biology and Applications</i> , 2016, 2, 16005.	3.0	141
36	Genome-scale metabolic model of <i>Pichia pastoris</i> with native and humanized glycosylation of recombinant proteins. <i>Biotechnology and Bioengineering</i> , 2016, 113, 961-969.	3.3	43

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37	Modeling Lipid Metabolism in Yeast. , 2016, , 1-14.		0
38	Crystal Structure of an Arginase-like Protein from <i>Trypanosoma brucei</i> That Evolved without a Binuclear Manganese Cluster. <i>Biochemistry</i> , 2015, 54, 458-471.	2.5	26
39	Probing the Metabolic Network in Bloodstream-Form <i>Trypanosoma brucei</i> Using Untargeted Metabolomics with Stable Isotope Labelled Glucose. <i>PLoS Pathogens</i> , 2015, 11, e1004689.	4.7	128
40	TrypanoCyc: a community-led biochemical pathways database for <i>Trypanosoma brucei</i> . <i>Nucleic Acids Research</i> , 2015, 43, D637-D644.	14.5	35
41	Genome scale metabolic modeling of the riboflavin overproducer <i>Ashbya gossypii</i> . <i>Biotechnology and Bioengineering</i> , 2014, 111, 1191-1199.	3.3	35
42	Applications of computational modeling in metabolic engineering of yeast. <i>FEMS Yeast Research</i> , 2014, 15, n/a-n/a.	2.3	28
43	The Silicon Trypanosome. <i>Advances in Microbial Physiology</i> , 2014, 64, 115-143.	2.4	5
44	<i>Trypanosoma brucei</i> : meet the system. <i>Current Opinion in Microbiology</i> , 2014, 20, 162-169.	5.1	10
45	Handling Uncertainty in Dynamic Models: The Pentose Phosphate Pathway in <i>Trypanosoma brucei</i> . <i>PLoS Computational Biology</i> , 2013, 9, e1003371.	3.2	40
46	Dynamic Modelling under Uncertainty: The Case of <i>Trypanosoma brucei</i> Energy Metabolism. <i>PLoS Computational Biology</i> , 2012, 8, e1002352.	3.2	28
47	A domino effect in drug action: from metabolic assault towards parasite differentiation. <i>Molecular Microbiology</i> , 2011, 79, 94-108.	2.5	44