## **Tobias Fuhrer**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Genome-wide RNAi screen identifies novel players in human 60S subunit biogenesis including key enzymes of polyamine metabolism. Nucleic Acids Research, 2022, 50, 2872-2888.	14.5	11
2	Glycolysis/gluconeogenesis specialization in microbes is driven by biochemical constraints of flux sensing. Molecular Systems Biology, 2022, 18, e10704.	7.2	21
3	High-Throughput Metabolomics and Diabetic Kidney Disease Progression: Evidence from the Chronic Renal Insufficiency (CRIC) Study. American Journal of Nephrology, 2022, 53, 215-225.	3.1	14
4	Distinct N and C Cross-Feeding Networks in a Synthetic Mouse Gut Consortium. MSystems, 2022, 7, e0148421.	3.8	9
5	Dynamic 3D proteomes reveal protein functional alterations at high resolution in situ. Cell, 2021, 184, 545-559.e22.	28.9	82
6	Reconfiguration of metabolic fluxes in <i>Pseudomonas putida</i> as a response to sub-lethal oxidative stress. ISME Journal, 2021, 15, 1751-1766.	9.8	79
7	Long-term evolution and short-term adaptation of microbiota strains and sub-strains in mice. Cell Host and Microbe, 2021, 29, 650-663.e9.	11.0	58
8	Bifunctional Malic/Malolactic Enzyme Provides a Novel Mechanism for NADPH-Balancing in Bacillus subtilis. MBio, 2021, 12, .	4.1	6
9	Metabolomic Markers of Kidney Function Decline in Patients With Diabetes: Evidence From the Chronic Renal Insufficiency Cohort (CRIC) Study. American Journal of Kidney Diseases, 2020, 76, 511-520.	1.9	45
10	Co atabolism of arginine and succinate drives symbiotic nitrogen fixation. Molecular Systems Biology, 2020, 16, e9419.	7.2	33
11	Reserve Flux Capacity in the Pentose Phosphate Pathway by NADPH Binding Is Conserved across Kingdoms. IScience, 2019, 19, 1133-1144.	4.1	44
12	Derailing the aspartate pathway of Mycobacterium tuberculosis to eradicate persistent infection. Nature Communications, 2019, 10, 4215.	12.8	48
13	Escherichia coli limits Salmonella Typhimurium infections after diet shifts and fat-mediated microbiota perturbation in mice. Nature Microbiology, 2019, 4, 2164-2174.	13.3	88
14	<sup>2</sup> H/ <sup>1</sup> H variation in microbial lipids is controlled by NADPH metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12173-12182.	7.1	27
15	(p)ppGpp Regulates a Bacterial Nucleosidase by an Allosteric Two-Domain Switch. Molecular Cell, 2019, 74, 1239-1249.e4.	9.7	39
16	Hidden resources in the <i>Escherichia coli</i> genome restore PLP synthesis and robust growth after deletion of the essential gene <i>pdxB</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24164-24173.	7.1	23
17	Purity by design: Reducing impurities in bioproduction by stimulus-controlled global translational downregulation of non-product proteins. Metabolic Engineering, 2019, 52, 110-123.	7.0	10
18	A Map of Protein-Metabolite Interactions Reveals Principles of Chemical Communication. Cell, 2018, 172, 358-372.e23.	28.9	350

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19	Synthesis and degradation of FtsZ quantitatively predict the first cell division in starved bacteria. Molecular Systems Biology, 2018, 14, e8623.	7.2	66
20	Metabolic Remodeling during Liver Regeneration. Developmental Cell, 2018, 47, 425-438.e5.	7.0	86
21	Antibodies Set Boundaries Limiting Microbial Metabolite Penetration and the Resultant Mammalian Host Response. Immunity, 2018, 49, 545-559.e5.	14.3	121
22	Reserve Flux Capacity in the Pentose Phosphate Pathway Enables Escherichia coli's Rapid Response to Oxidative Stress. Cell Systems, 2018, 6, 569-578.e7.	6.2	162
23	The thioredoxin-1 system is essential for fueling DNA synthesis during T-cell metabolic reprogramming and proliferation. Nature Communications, 2018, 9, 1851.	12.8	77
24	Genomewide landscape of gene–metabolome associations in <i>Escherichia coli</i> . Molecular Systems Biology, 2017, 13, 907.	7.2	109
25	Maternal microbiota and antibodies as advocates of neonatal health. Gut Microbes, 2017, 8, 479-485.	9.8	21
26	Glycolysis without pyruvate kinase in Clostridium thermocellum. Metabolic Engineering, 2017, 39, 169-180.	7.0	62
27	Nontargeted in vitro metabolomics for high-throughput identification of novel enzymes in Escherichia coli. Nature Methods, 2017, 14, 187-194.	19.0	125
28	L-Arginine Modulates T Cell Metabolism and Enhances Survival and Anti-tumor Activity. Cell, 2016, 167, 829-842.e13.	28.9	1,077
29	The maternal microbiota drives early postnatal innate immune development. Science, 2016, 351, 1296-1302.	12.6	871
30	Pseudomonas putida KT2440 Strain Metabolizes Glucose through a Cycle Formed by Enzymes of the Entner-Doudoroff, Embden-Meyerhof-Parnas, and Pentose Phosphate Pathways. Journal of Biological Chemistry, 2015, 290, 25920-25932.	3.4	269
31	The outer mucus layer hosts a distinct intestinal microbial niche. Nature Communications, 2015, 6, 8292.	12.8	390
32	Real-time metabolome profiling of the metabolic switch between starvation and growth. Nature Methods, 2015, 12, 1091-1097.	19.0	209
33	High-throughput discovery metabolomics. Current Opinion in Biotechnology, 2015, 31, 73-78.	6.6	203
34	Protein acetylation affects acetate metabolism, motility and acid stress response in <i>Escherichia coli</i> . Molecular Systems Biology, 2014, 10, 762.	7.2	159
35	Hepatic mTORC1 controls locomotor activity, body temperature, and lipid metabolism through FGF21. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11592-11599.	7.1	134
36	Identification of Transcriptional and Metabolic Programs Related to Mammalian Cell Size. Current Biology, 2014, 24, 598-608.	3.9	108

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37	Cra regulates the crossâ€ŧalk between the two branches of the phosphoenolpyruvateâ€f: phosphotransferase system of <i>Pseudomonas putida</i> . Environmental Microbiology, 2013, 15, 121-132.	3.8	18
38	Global probabilistic annotation of metabolic networks enables enzyme discovery. Nature Chemical Biology, 2012, 8, 848-854.	8.0	53
39	Acetate scavenging activity in Escherichia coli: interplay of acetyl–CoA synthetase and the PEP–glyoxylate cycle in chemostat cultures. Applied Microbiology and Biotechnology, 2012, 93, 2109-2124.	3.6	71
40	High-Throughput, Accurate Mass Metabolome Profiling of Cellular Extracts by Flow Injection–Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 7074-7080.	6.5	324
41	The Nonphosphorylative Entner-Doudoroff Pathway in the Thermoacidophilic Euryarchaeon <i>Picrophilus torridus</i> Involves a Novel 2-Keto-3-Deoxygluconate- Specific Aldolase. Journal of Bacteriology, 2010, 192, 964-974.	2.2	50
42	Metabolism of Pentose Sugars in the Hyperthermophilic Archaea Sulfolobus solfataricus and Sulfolobus acidocaldarius. Journal of Biological Chemistry, 2010, 285, 33701-33709.	3.4	76
43	Different Biochemical Mechanisms Ensure Network-Wide Balancing of Reducing Equivalents in Microbial Metabolism. Journal of Bacteriology, 2009, 191, 2112-2121.	2.2	136
44	d-Xylose Degradation Pathway in the Halophilic Archaeon Haloferax volcanii. Journal of Biological Chemistry, 2009, 284, 27290-27303.	3.4	92
45	Computational Prediction and Experimental Verification of the Gene Encoding the NAD <sup>+</sup> /NADP <sup>+</sup> -Dependent Succinate Semialdehyde Dehydrogenase in <i>Escherichia coli</i> . Journal of Bacteriology, 2007, 189, 8073-8078.	2.2	57
46	Convergent Peripheral Pathways Catalyze Initial Glucose Catabolism in Pseudomonas putida : Genomic and Flux Analysis. Journal of Bacteriology, 2007, 189, 5142-5152.	2.2	231
47	Determination of Metabolic Flux Ratios From 13C-Experiments and Gas Chromatography-Mass Spectrometry Data. Methods in Molecular Biology, 2007, 358, 177-197.	0.9	168
48	Multiple and Interconnected Pathways for l -Lysine Catabolism in Pseudomonas putida KT2440. Journal of Bacteriology, 2005, 187, 7500-7510.	2.2	122
49	Experimental Identification and Quantification of Glucose Metabolism in Seven Bacterial Species. Journal of Bacteriology, 2005, 187, 1581-1590.	2.2	340
50	Determination of Metabolic Flux Ratios From <sup>13</sup> C-Experiments and Gas Chromatography-Mass Spectrometry Data: Protocol and Principles. , 0, , 177-198.		4