

Kyu Y Rhee

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.

99
papers

4,361
citations

38
h-index

65
g-index

107
ext. papers

5,545
ext. citations

11.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
99	An amiloride derivative is active against the FF-ATP synthase and cytochrome bd oxidase of Mycobacterium tuberculosis.. <i>Communications Biology</i> , 2022 , 5, 166	6.7	0
98	Deciphering functional redundancy and energetics of malate oxidation in mycobacteria.. <i>Journal of Biological Chemistry</i> , 2022 , 101859	5.4	0
97	Chemical-genetic interaction mapping links carbon metabolism and cell wall structure to tuberculosis drug efficacy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2201632119	11.5	2
96	CinA mediates multidrug tolerance in Mycobacterium tuberculosis.. <i>Nature Communications</i> , 2022 , 13, 2203	17.4	2
95	Multiple acyl-CoA dehydrogenase deficiency kills Mycobacterium tuberculosis in vitro and during infection. <i>Nature Communications</i> , 2021 , 12, 6593	17.4	0
94	GLUT5 (SLC2A5) enables fructose-mediated proliferation independent of ketohexokinase. <i>Cancer & Metabolism</i> , 2021 , 9, 12	5.4	1
93	Targeting CoaBC through Chemical Inhibition of 4UPhosphopantothienoyl-l-cysteine Synthetase (CoaB) Activity. <i>ACS Infectious Diseases</i> , 2021 , 7, 1666-1679	5.5	0
92	Innovations in MD-only physician-scientist training: experiences from the Burroughs Wellcome Fund physician-scientist institutional award initiative. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
91	Metabolic bifunctionality of Rv0812 couples folate and peptidoglycan biosynthesis in Mycobacterium tuberculosis. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	1
90	Transcriptional regulator-induced phenotype screen reveals drug potentiators in Mycobacterium tuberculosis. <i>Nature Microbiology</i> , 2021 , 6, 44-50	26.6	3
89	Metabolomics of Mycobacterium tuberculosis. <i>Methods in Molecular Biology</i> , 2021 , 2314, 579-593	1.4	2
88	The Tuberculosis Drug Accelerator at year 10: what have we learned?. <i>Nature Medicine</i> , 2021 , 27, 1333-1337	33.7	7
87	Multiform antimicrobial resistance from a metabolic mutation. <i>Science Advances</i> , 2021 , 7,	14.3	4
86	Dietary fructose improves intestinal cell survival and nutrient absorption. <i>Nature</i> , 2021 , 597, 263-267	50.4	32
85	Growth of at acidic pH depends on lipid assimilation and is accompanied by reduced GAPDH activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
84	Inhibiting Mycobacterium tuberculosis CoaBC by targeting an allosteric site. <i>Nature Communications</i> , 2021 , 12, 143	17.4	4
83	Two interacting ATPases protect from glycerol and nitric oxide toxicity. <i>Journal of Bacteriology</i> , 2020 ,	3.5	1

82	Depletion of the DarG antitoxin in Mycobacterium tuberculosis triggers the DNA-damage response and leads to cell death. <i>Molecular Microbiology</i> , 2020 , 114, 641-652	4.1	14
81	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP. <i>PLoS Genetics</i> , 2020 , 16, e1008884	6	25
80	Dissociation of Adaptive Thermogenesis from Glucose Homeostasis in Microbiome-Deficient Mice. <i>Cell Metabolism</i> , 2020 , 31, 592-604.e9	24.6	26
79	Aspartate aminotransferase Rv3722c governs aspartate-dependent nitrogen metabolism in Mycobacterium tuberculosis. <i>Nature Communications</i> , 2020 , 11, 1960	17.4	16
78	Urinary biomarkers of mycobacterial load and treatment response in pulmonary tuberculosis. <i>JCI Insight</i> , 2020 , 5,	9.9	1
77	Two for the price of one: Attacking the energetic-metabolic hub of mycobacteria to produce new chemotherapeutic agents. <i>Progress in Biophysics and Molecular Biology</i> , 2020 , 152, 35-44	4.7	11
76	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP 2020 , 16, e1008884		
75	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP 2020 , 16, e1008884		
74	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP 2020 , 16, e1008884		
73	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP 2020 , 16, e1008884		
72	Opposing reactions in coenzyme A metabolism sensitize to enzyme inhibition. <i>Science</i> , 2019 , 363,	33.3	37
71	Impact of CodY protein on metabolism, sporulation and virulence in Clostridioides difficile ribotype 027. <i>PLoS ONE</i> , 2019 , 14, e0206896	3.7	13
70	High-fructose corn syrup enhances intestinal tumor growth in mice. <i>Science</i> , 2019 , 363, 1345-1349	33.3	128
69	Bacillus subtilis PgcA moonlights as a phosphoglucosamine mutase in support of peptidoglycan synthesis. <i>PLoS Genetics</i> , 2019 , 15, e1008434	6	3
68	Mode-of-action profiling reveals glutamine synthetase as a collateral metabolic vulnerability of to bedaquiline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19646-19651	11.5	23
67	1886. N1,N12-Diacetylspermine as Potential Urinary Biomarker to Monitor Treatment Response and Bacterial Load in Pulmonary Tuberculosis. <i>Open Forum Infectious Diseases</i> , 2019 , 6, S53-S53	1	0
66	Rac-Mediated Macropinocytosis of Extracellular Protein Promotes Glucose Independence in Non-Small Cell Lung Cancer. <i>Cancers</i> , 2019 , 11,	6.6	33
65	Pyrazolo[1,5- a]pyridine Inhibitor of the Respiratory Cytochrome bcc Complex for the Treatment of Drug-Resistant Tuberculosis. <i>ACS Infectious Diseases</i> , 2019 , 5, 239-249	5.5	47

64	Identification of a Mycothiol-Dependent Nitroreductase from <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2018 , 4, 771-787	5.5	12
63	Multisystem Analysis of Reveals Kinase-Dependent Remodeling of the Pathogen-Environment Interface. <i>MBio</i> , 2018 , 9,	7.8	38
62	2-Mercapto-Quinazolinones as Inhibitors of Type II NADH Dehydrogenase and <i>Mycobacterium tuberculosis</i> : Structure-Activity Relationships, Mechanism of Action and Absorption, Distribution, Metabolism, and Excretion Characterization. <i>ACS Infectious Diseases</i> , 2018 , 4, 954-969	5.5	31
61	Verapamil Targets Membrane Energetics in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	53
60	Metabolic principles of persistence and pathogenicity in <i>Mycobacterium tuberculosis</i> . <i>Nature Reviews Microbiology</i> , 2018 , 16, 496-507	22.2	82
59	Targeting protein biotinylation enhances tuberculosis chemotherapy. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	17
58	Synergistic Lethality of a Binary Inhibitor of <i>Mycobacterium tuberculosis</i> KasA. <i>MBio</i> , 2018 , 9,	7.8	19
57	Mass Spectrometric Identification of Urinary Biomarkers of Pulmonary Tuberculosis. <i>EBioMedicine</i> , 2018 , 31, 157-165	8.8	26
56	Fumarase Deficiency Causes Protein and Metabolite Succination and Intoxicates <i>Mycobacterium tuberculosis</i> . <i>Cell Chemical Biology</i> , 2017 , 24, 306-315	8.2	28
55	Metabolic Perspectives on Persistence. <i>Microbiology Spectrum</i> , 2017 , 5,	8.9	7
54	Emerging Approaches to Tuberculosis Drug Development: At Home in the Metabolome. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 393-405	13.2	18
53	Glyoxylate detoxification is an essential function of malate synthase required for carbon assimilation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2225-E2232	11.5	53
52	Metabolic anticipation in <i>Mycobacterium tuberculosis</i> . <i>Nature Microbiology</i> , 2017 , 2, 17084	26.6	52
51	Metabolism and the Evolution of Social Behavior. <i>Molecular Biology and Evolution</i> , 2017 , 34, 2367-2379	8.3	11
50	Control of biotin biosynthesis in mycobacteria by a pyruvate carboxylase dependent metabolic signal. <i>Molecular Microbiology</i> , 2017 , 106, 1018-1031	4.1	6
49	Essential but Not Vulnerable: Indazole Sulfonamides Targeting Inosine Monophosphate Dehydrogenase as Potential Leads against <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2017 , 3, 18-33	5.5	62
48	Metabolic Perspectives on Persistence 2017 , 653-669		0
47	Crosstalk between the tricarboxylic acid cycle and peptidoglycan synthesis in <i>Caulobacter crescentus</i> through the homeostatic control of β -ketoglutarate. <i>PLoS Genetics</i> , 2017 , 13, e1006978	6	38

46	N-methylation of a bactericidal compound as a resistance mechanism in Mycobacterium tuberculosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4523-30	11.5	60
45	Ergothioneine Maintains Redox and Bioenergetic Homeostasis Essential for Drug Susceptibility and Virulence of Mycobacterium tuberculosis. <i>Cell Reports</i> , 2016 , 14, 572-585	10.6	83
44	Central Role of Pyruvate Kinase in Carbon Co-catabolism of Mycobacterium tuberculosis. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7060-9	5.4	29
43	A spectrum of CodY activities drives metabolic reorganization and virulence gene expression in Staphylococcus aureus. <i>Molecular Microbiology</i> , 2016 , 101, 495-514	4.1	45
42	Validation of CoaBC as a Bactericidal Target in the Coenzyme A Pathway of Mycobacterium tuberculosis. <i>ACS Infectious Diseases</i> , 2016 , 2, 958-968	5.5	46
41	Mycobacterial genes essential for the pathogen's survival in the host. <i>Immunological Reviews</i> , 2015 , 264, 319-26	11.3	40
40	Evolution of a thienopyrimidine antitubercular relying on medicinal chemistry and metabolomics insights. <i>Tetrahedron Letters</i> , 2015 , 56, 3246-3250	2	19
39	Tuberculosis Drug Development: History and Evolution of the Mechanism-Based Paradigm. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015 , 5, a021147	5.4	42
38	Mitochondrial ClpX Activates a Key Enzyme for Heme Biosynthesis and Erythropoiesis. <i>Cell</i> , 2015 , 161, 858-67	56.2	69
37	E1 of Isoglutarate dehydrogenase defends Mycobacterium tuberculosis against glutamate anaplerosis and nitroxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5834-43	11.5	44
36	Two enzymes with redundant fructose biphosphatase activity sustain gluconeogenesis and virulence in Mycobacterium tuberculosis. <i>Nature Communications</i> , 2015 , 6, 7912	17.4	39
35	Targeting Mycobacterium tuberculosis Biotin Protein Ligase (MtBPL) with Nucleoside-Based Bisubstrate Adenylation Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 7349-7369	8.3	32
34	Comparison of transposon and deletion mutants in Mycobacterium tuberculosis: The case of rv1248c, encoding 2-hydroxy-3-oxoadipate synthase. <i>Tuberculosis</i> , 2015 , 95, 689-694	2.6	2
33	Metabolomics of Mycobacterium tuberculosis. <i>Methods in Molecular Biology</i> , 2015 , 1285, 105-15	1.4	28
32	Microbial Metabolomics: Fifty Shades of Metabolism. <i>ACS Infectious Diseases</i> , 2015 , 1, 73-5	5.5	4
31	Allostery and compartmentalization: old but not forgotten. <i>Current Opinion in Microbiology</i> , 2014 , 18, 23-9	7.9	4
30	Methylcitrate cycle defines the bactericidal essentiality of isocitrate lyase for survival of Mycobacterium tuberculosis on fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4976-81	11.5	106
29	Risk factors and outcomes of infections caused by extremely drug-resistant gram-negative bacilli in patients hospitalized in intensive care units. <i>American Journal of Infection Control</i> , 2014 , 42, 626-31	3.8	27

28	Triosephosphate isomerase is dispensable in vitro yet essential for Mycobacterium tuberculosis to establish infection. <i>MBio</i> , 2014 , 5, e00085	7.8	33
27	Microbial metabolomics: innovation, application, insight. <i>Current Opinion in Microbiology</i> , 2014 , 19, 90-96	7.9	51
26	Folate pathway disruption leads to critical disruption of methionine derivatives in Mycobacterium tuberculosis. <i>Chemistry and Biology</i> , 2014 , 21, 819-30		41
25	Isocitrate lyase mediates broad antibiotic tolerance in Mycobacterium tuberculosis. <i>Nature Communications</i> , 2014 , 5, 4306	17.4	172
24	Metabolomics of Central Carbon Metabolism in Mycobacterium tuberculosis. <i>Microbiology Spectrum</i> , 2014 , 2,	8.9	19
23	Intermediate-type vancomycin resistance (VISA) in genetically-distinct Staphylococcus aureus isolates is linked to specific, reversible metabolic alterations. <i>PLoS ONE</i> , 2014 , 9, e97137	3.7	13
22	Hierarchical expression of genes controlled by the Bacillus subtilis global regulatory protein CodY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8227-32	11.5	64
21	Inactivation of fructose-1,6-bisphosphate aldolase prevents optimal co-catabolism of glycolytic and gluconeogenic carbon substrates in Mycobacterium tuberculosis. <i>PLoS Pathogens</i> , 2014 , 10, e1004144	7.6	48
20	Minding the gaps: metabolomics mends functional genomics. <i>EMBO Reports</i> , 2013 , 14, 949-50	6.5	14
19	A genetic strategy to identify targets for the development of drugs that prevent bacterial persistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19095-100	11.5	119
18	Para-aminosalicylic acid acts as an alternative substrate of folate metabolism in Mycobacterium tuberculosis. <i>Science</i> , 2013 , 339, 88-91	33.3	135
17	Mycobacterium tuberculosis metabolism and host interaction: mysteries and paradoxes. <i>Current Topics in Microbiology and Immunology</i> , 2013 , 374, 163-88	3.3	45
16	Glucose phosphorylation is required for Mycobacterium tuberculosis persistence in mice. <i>PLoS Pathogens</i> , 2013 , 9, e1003116	7.6	78
15	Multifunctional essentiality of succinate metabolism in adaptation to hypoxia in Mycobacterium tuberculosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6554-9	11.5	196
14	Virulence of Mycobacterium tuberculosis depends on lipoamide dehydrogenase, a member of three multienzyme complexes. <i>Cell Host and Microbe</i> , 2011 , 9, 21-31	23.4	97
13	Prevalence, persistence, and microbiology of Staphylococcus aureus nasal carriage among hemodialysis outpatients at a major New York Hospital. <i>Diagnostic Microbiology and Infectious Disease</i> , 2011 , 70, 37-44	2.9	19
12	Endemic Acinetobacter baumannii in a New York hospital. <i>PLoS ONE</i> , 2011 , 6, e28566	3.7	15
11	Central carbon metabolism in Mycobacterium tuberculosis: an unexpected frontier. <i>Trends in Microbiology</i> , 2011 , 19, 307-14	12.4	130

10	Depletion of antibiotic targets has widely varying effects on growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4176-81	11.5	121
9	Evaluating the sensitivity of Mycobacterium tuberculosis to biotin deprivation using regulated gene expression. <i>PLoS Pathogens</i> , 2011 , 7, e1002264	7.6	105
8	A chemical genetic screen in Mycobacterium tuberculosis identifies carbon-source-dependent growth inhibitors devoid of in vivo efficacy. <i>Nature Communications</i> , 2010 , 1, 57	17.4	190
7	Gluconeogenic carbon flow of tricarboxylic acid cycle intermediates is critical for Mycobacterium tuberculosis to establish and maintain infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9819-24	11.5	256
6	Activity-based metabolomic profiling of enzymatic function: identification of Rv1248c as a mycobacterial 2-hydroxy-3-oxoadipate synthase. <i>Chemistry and Biology</i> , 2010 , 17, 323-32		96
5	Metabolomics of Mycobacterium tuberculosis reveals compartmentalized co-catabolism of carbon substrates. <i>Chemistry and Biology</i> , 2010 , 17, 1122-31		255
4	Suitability of silica hydride stationary phase, aqueous normal phase chromatography for untargeted metabolomic profiling of Enterococcus faecium and Staphylococcus aureus. <i>Journal of Separation Science</i> , 2009 , 32, 2262-5	3.4	23
3	Selective killing of nonreplicating mycobacteria. <i>Cell Host and Microbe</i> , 2008 , 3, 137-45	23.4	160
2	S-nitroso proteome of Mycobacterium tuberculosis: Enzymes of intermediary metabolism and antioxidant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 467-72	11.5	147
1	Metabolomics of Central Carbon Metabolism in Mycobacterium tuberculosis 323-339		