Yossef Av-Gay

List of Publications by Year
in descending order

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119 papers	7,793 citations	47006 47 h-index	54911 84 g-index
125 all docs	125 docs citations	125 times ranked	7939 citing authors

#	Article	IF	Citations
1	Clionamines stimulate autophagy, inhibit Mycobacterium tuberculosis survival in macrophages, and target Pik1. Cell Chemical Biology, 2022, 29, 870-882.e11.	5.2	7
2	Screening of diverse marine invertebrate extracts identified Lissoclinotoxin F, Discodermin B, and other anti-Mycobacterium tuberculosis active compounds. Journal of Antibiotics, 2022, 75, 213-225.	2.0	4
3	Efficient Synthesis of Benzothiazinone Analogues with Activity against Intracellular Mycobacterium tuberculosis. ChemMedChem, 2022, 17, e202100733.	3.2	11
4	Hit Compounds and Associated Targets in Intracellular Mycobacterium tuberculosis. Molecules, 2022, 27, 4446.	3.8	0
5	BCG immunomodulation: From the â€˜hygiene hypothesisâ€™ to COVID-19. Immunobiology, 2021, 226, 152052.	1.9	14
6	Roles for phthiocerol dimycocerosate lipids in Mycobacterium tuberculosis pathogenesis. Microbiology (United Kingdom), 2021, 167, .	1.8	17
7	From infection niche to therapeutic target: the intracellular lifestyle of Mycobacterium tuberculosis. Microbiology (United Kingdom), 2021, 167, .	1.8	15
8	Editorial: New Approaches Against Drug-Resistant M. tuberculosis. Frontiers in Microbiology, 2021, 12, 681420.	3.5	0
9	Apoptosis assessment in high-content and high-throughput screening assays. BioTechniques, 2021, 70, 309-318.	1.8	3
10	High-Content Screening of Eukaryotic Kinase Inhibitors Identify CHK2 Inhibitor Activity Against Mycobacterium tuberculosis. Frontiers in Microbiology, 2020, 11, 553962.	3.5	19
11	MymA Bioactivated Thioalkylbenzoxazole Prodrug Family Active against Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2020, 63, 4732-4748.	6.4	12
12	DMN-Tre Labeling for Detection and High-Content Screening of Compounds against Intracellular Mycobacteria. ACS Omega, 2020, 5, 3661-3669.	3.5	21
13	Phase separation and clustering of an ABC transporter in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16326-16331.	7.1	54
14	S-Nitrosylation of Î±1-Antitrypsin Triggers Macrophages Toward Inflammatory Phenotype and Enhances Intra-Cellular Bacteria Elimination. Frontiers in Immunology, 2019, 10, 590.	4.8	13
15	THP-1 and Dictyostelium Infection Models for Screening and Characterization of Anti-Mycobacterium abscessus Hit Compounds. Antimicrobial Agents and Chemotherapy, 2019, 64, .	3.2	16
16	Protein tyrosine kinase, PtkA, is required for Mycobacterium tuberculosis growth in macrophages. Scientific Reports, 2018, 8, 155.	3.3	30
17	Synthesis, antimycobacterial activity and influence on mycobacterial InhA and PknB of 12-membered cyclodepsipeptides. Bioorganic and Medicinal Chemistry, 2018, 26, 3166-3190.	3.0	2
18	Nitric oxide inhalations in bronchiolitis: A pilot, randomized, doubleâ€blinded, controlled trial. Pediatric Pulmonology, 2018, 53, 95-102.	2.0	13

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19	Screening of Preselected Libraries Targeting Mycobacterium abscessus for Drug Discovery. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	25
20	Biophysical Characterization of the Tandem FHA Domain Regulatory Module from the Mycobacterium tuberculosis ABC Transporter Rv1747. Structure, 2018, 26, 972-986.e6.	3.3	10
21	Epigenetic Phosphorylation Control of Mycobacterium tuberculosis Infection and Persistence. Microbiology Spectrum, 2017, 5, .	3.0	24
22	Aminorifamycins and Sporalactams Produced in Culture by a Micromonospora sp. Isolated from a Northeastern-Pacific Marine Sediment Are Potent Antibiotics. Organic Letters, 2017, 19, 766-769.	4.6	34
23	System for Efficacy and Cytotoxicity Screening of Inhibitors Targeting Intracellular Mycobacterium tuberculosis. Journal of Visualized Experiments, 2017, , .	0.3	11
24	Genome Sequences of the Mycobacterium tuberculosis H37Rv- ptkA Deletion Mutant and Its Parental Strain. Genome Announcements, 2017, 5, .	0.8	2
25	Nitric oxide charged catheters as a potential strategy for prevention of hospital acquired infections. PLoS ONE, 2017, 12, e0174443.	2.5	19
26	Intracellular Growth of Bacterial Pathogens: The Role of Secreted Effector Proteins in the Control of Phagocytosed Microorganisms. , 2016, , 693-713.		0
27	Nitric Oxide Charged Catheters as a Potential Strategy for Prevention of Hospital Acquired Infections. Open Forum Infectious Diseases, 2016, 3, .	0.9	1
28	New Era of TB Drug Discovery and Its Impact on Disease Management. Current Treatment Options in Infectious Diseases, 2016, 8, 299-310.	1.9	8
29	Ergothioneine Maintains Redox and Bioenergetic Homeostasis Essential for Drug Susceptibility and Virulence of Mycobacterium tuberculosis. Cell Reports, 2016, 14, 572-585.	6.4	124
30	Development of an Intracellular Screen for New Compounds Able To Inhibit Mycobacterium tuberculosis Growth in Human Macrophages. Antimicrobial Agents and Chemotherapy, 2016, 60, 640-645.	3.2	57
31	Intracellular Growth of Bacterial Pathogens: The Role of Secreted Effector Proteins in the Control of Phagocytosed Microorganisms. Microbiology Spectrum, 2015, 3, .	3.0	13
32	Phosphorylation control of protein tyrosine phosphatase A activity in Mycobacterium tuberculosis. FEBS Letters, 2015, 589, 326-331.	2.8	30
33	Regulation of Ergothioneine Biosynthesis and Its Effect on Mycobacterium tuberculosis Growth and Infectivity. Journal of Biological Chemistry, 2015, 290, 23064-23076.	3.4	45
34	Immunoevasion and immunosuppression of the macrophage by <scp>M</scp>ycobacterium tuberculosis. Immunological Reviews, 2015, 264, 220-232.	6.0	223
35	Phosphorylation of Mycobacterium tuberculosis protein tyrosine kinase A PtkA by Ser/Thr protein kinases. Biochemical and Biophysical Research Communications, 2015, 467, 421-426.	2.1	16
36	Microbial Protein-tyrosine Kinases. Journal of Biological Chemistry, 2014, 289, 9463-9472.	3.4	58

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37	Mycobacterium tuberculosis Promotes Anti-apoptotic Activity of the Macrophage by PtpA Protein-dependent Dephosphorylation of Host GSK3Î±. Journal of Biological Chemistry, 2014, 289, 29376-29385.	3.4	53
38	Sydowiols Aâ€“C: Mycobacterium tuberculosis protein tyrosine phosphatase inhibitors from an East China Sea marine-derived fungus, Aspergillus sydowii. Tetrahedron Letters, 2013, 54, 6081-6083.	1.4	31
39	Mycobacterium tuberculosis-secreted phosphatases: from pathogenesis to targets for TB drug development. Trends in Microbiology, 2013, 21, 100-109.	7.7	102
40	Disruption of the serine/threonine protein kinase H affects phthiocerol dimycocerosates synthesis in Mycobacterium tuberculosis. Microbiology (United Kingdom), 2013, 159, 726-736.	1.8	22
41	Antimicrobial activity, cytotoxicity and inflammatory response of novel plastics embedded with silver nanoparticles. Future Microbiology, 2013, 8, 403-411.	2.0	14
42	Gaseous nitric oxide reduces influenza infectivity in vitro. Nitric Oxide - Biology and Chemistry, 2013, 31, 48-53.	2.7	43
43	Chemical constituents, anti-inflammatory and antioxidant activities of bark extracts fromPrunus tucumanensisLillo. Natural Product Research, 2013, 27, 916-919.	1.8	9
44	Mycobacterium tuberculosis Nucleoside Diphosphate Kinase Inactivates Small GTPases Leading to Evasion of Innate Immunity. PLoS Pathogens, 2013, 9, e1003499.	4.7	87
45	Nitazoxanide Stimulates Autophagy and Inhibits mTORC1 Signaling and Intracellular Proliferation of Mycobacterium tuberculosis. PLoS Pathogens, 2012, 8, e1002691.	4.7	124
46	A phase I clinical study of inhaled nitric oxide in healthy adults. Journal of Cystic Fibrosis, 2012, 11, 324-331.	0.7	46
47	Mycobacterium tuberculosis modulators of the macrophage's cellular events. Microbes and Infection, 2012, 14, 1211-1219.	1.9	32
48	Antimicrobial, Anti-Inflammatory, Antiparasitic, and Cytotoxic Activities ofLaennecia confusa. Scientific World Journal, The, 2012, 2012, 1-8.	2.1	10
49	The Mycobacterial Transcriptional Regulator whiB7 Gene Links Redox Homeostasis and Intrinsic Antibiotic Resistance. Journal of Biological Chemistry, 2012, 287, 299-310.	3.4	106
50	Antibacterial activity, inflammatory response, coagulation and cytotoxicity effects of silver nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 328-336.	3.3	254
51	Antimicrobial, anti-inflammatory, antiparasitic, and cytotoxic activities of Galium mexicanum. Journal of Ethnopharmacology, 2011, 137, 141-147.	4.1	40
52	Comparative Efficacy of Commercially Available and Emerging Antimicrobial Urinary Catheters Against Bacteriuria Caused by E. coli In Vitro. Urology, 2011, 78, 334-339.	1.0	45
53	Antibacterial and Cytotoxic Activities of the Sesquiterpene Lactones Cnicin and Onopordopicrin. Natural Product Communications, 2011, 6, 1934578X1100600.	0.5	20
54	Antimicrobial activities of sesquiterpene lactones and inositol derivatives from Hymenoxys robusta. Phytochemistry, 2011, 72, 2413-2418.	2.9	24

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55	Coresistance to Isoniazid and Ethionamide Maps to Mycothiol Biosynthetic Genes in Mycobacterium bovis. Antimicrobial Agents and Chemotherapy, 2011, 55, 4422-4423.	3.2	31
56	Mycobacterium tuberculosis protein tyrosine phosphatase (PtpA) excludes host vacuolar-H ⁺ â€“ATPase to inhibit phagosome acidification. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19371-19376.	7.1	331
57	Synergistic Drug Combinations for Tuberculosis Therapy Identified by a Novel High-Throughput Screen. Antimicrobial Agents and Chemotherapy, 2011, 55, 3861-3869.	3.2	150
58	Precise Null Deletion Mutations of the Mycothiol Synthesis Genes Reveal Their Role in Isoniazid and Ethionamide Resistance in Mycobacterium smegmatis. Antimicrobial Agents and Chemotherapy, 2011, 55, 3133-3139.	3.2	44
59	Inositol monophosphate phosphatase genes of Mycobacterium tuberculosis. BMC Microbiology, 2010, 10, 50.	3.3	22
60	Protein kinase and phosphatase signaling in Mycobacterium tuberculosis physiology and pathogenesis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 620-627.	2.3	113
61	Synthesis, characterization, and evaluation of antimicrobial and cytotoxic effect of silver and titanium nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 681-688.	3.3	396
62	Inhibition of Mycobacterium tuberculosis tyrosine phosphatase PtpA by synthetic chalcones: Kinetics, molecular modeling, toxicity and effect on growth. Bioorganic and Medicinal Chemistry, 2010, 18, 3783-3789.	3.0	76
63	MmpS4 promotes glycopeptidolipids biosynthesis and export in Mycobacterium smegmatis. Molecular Microbiology, 2010, 78, 989-1003.	2.5	65
64	Slow Release of Nitric Oxide from Charged Catheters and Its Effect on Biofilm Formation by Escherichia coli. Antimicrobial Agents and Chemotherapy, 2010, 54, 273-279.	3.2	82
65	Convergence of Ser/Thr and Two-component Signaling to Coordinate Expression of the Dormancy Regulon in Mycobacterium tuberculosis*. Journal of Biological Chemistry, 2010, 285, 29239-29246.	3.4	94
66	Antimycobacterial activity of UDP-galactopyranose mutase inhibitors. International Journal of Antimicrobial Agents, 2010, 36, 364-368.	2.5	31
67	Glutathione disulfide and Sâ€nitrosoglutathione detoxification by Mycobacteriumtuberculosis thioredoxin system. FEBS Letters, 2009, 583, 3215-3220.	2.8	25
68	The serine/threonine protein kinase PknI controls the growth ofMycobacterium tuberculosisupon infection. FEMS Microbiology Letters, 2009, 295, 23-29.	1.8	47
69	Gaseous nitric oxide bactericidal activity retained during intermittent high-dose short duration exposure. Nitric Oxide - Biology and Chemistry, 2009, 20, 16-23.	2.7	93
70	Mycobacterium tuberculosis PtkA is a novel protein tyrosine kinase whose substrate is PtpA. Biochemical Journal, 2009, 420, 155-162.	3.7	73
71	Mycobacterium smegmatisbiofilm formation and sliding motility are affected by the serine/threonine protein kinase PknF. FEMS Microbiology Letters, 2008, 278, 121-127.	1.8	41
72	Mycothiol biosynthesis is essential for ethionamide susceptibility in Mycobacterium tuberculosis. Molecular Microbiology, 2008, 69, 1316-1329.	2.5	155

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73	Molecular cloning and biochemical characterization of a serine threonine protein kinase, PknL, from Mycobacterium tuberculosis. Protein Expression and Purification, 2008, 58, 309-317.	1.3	19
74	Mycobacterium tuberculosis Virulence Is Mediated by PtpA Dephosphorylation of Human Vacuolar Protein Sorting 33B. Cell Host and Microbe, 2008, 3, 316-322.	11.0	281
75	Signalling Inhibitors Against Mycobacterium tuberculosis â€“ Early Days of a New Therapeutic Concept in Tuberculosis. Current Medicinal Chemistry, 2008, 15, 2760-2770.	2.4	33
76	Lipoamide dehydrogenase mediates retention of coronin-1 on BCG vacuoles, leading to arrest in phagosome maturation. Journal of Cell Science, 2007, 120, 3489-3489.	2.0	6
77	Lipoamide dehydrogenase mediates retention of coronin-1 on BCG vacuoles, leading to arrest in phagosome maturation. Journal of Cell Science, 2007, 120, 2796-2806.	2.0	71
78	Innate Protection of Mycobacterium smegmatis against the Antimicrobial Activity of Nitric Oxide Is Provided by Mycothiol. Antimicrobial Agents and Chemotherapy, 2007, 51, 3364-3366.	3.2	44
79	Mycobacterium bovisBacillus Calmette-GuÃ©rin Secreting Active Cathepsin S Stimulates Expression of Mature MHC Class II Molecules and Antigen Presentation in Human Macrophages. Journal of Immunology, 2007, 179, 5137-5145.	0.8	55
80	Novel substrates of Mycobacterium tuberculosis PknH Ser/Thr kinase. Biochemical and Biophysical Research Communications, 2007, 355, 162-168.	2.1	44
81	Comparative analysis of mutants in the mycothiol biosynthesis pathway in Mycobacterium smegmatis. Biochemical and Biophysical Research Communications, 2007, 363, 71-76.	2.1	52
82	Mycothiol-dependent proteins in actinomycetes. FEMS Microbiology Reviews, 2007, 31, 278-292.	8.6	92
83	Mycothiol-dependent mycobacterial response to oxidative stress. FEBS Letters, 2006, 580, 2712-2716.	2.8	63
84	Mycobacterium tuberculosis transporter MmpL7 is a potential substrate for kinase PknD. Biochemical and Biophysical Research Communications, 2006, 348, 6-12.	2.1	69
85	Purification and characterization of Mycobacterium tuberculosis 1d-myo-inosityl-2-acetamido-2-deoxy-l±-d-glucopyranoside deacetylase, MshB, a mycothiol biosynthetic enzyme. Protein Expression and Purification, 2006, 47, 542-550.	1.3	47
86	Mycobacterium avium subsp. paratuberculosis PtpA Is an Endogenous Tyrosine Phosphatase Secreted during Infection. Infection and Immunity, 2006, 74, 6540-6546.	2.2	39
87	In vitro properties of antimicrobial bromotyrosine alkaloids. Journal of Medical Microbiology, 2006, 55, 407-415.	1.8	20
88	Mycobacterial manipulation of the host cell. FEMS Microbiology Reviews, 2005, 29, 1041-1050.	8.6	98
89	Thiol specific oxidative stress response inMycobacteria. FEMS Microbiology Letters, 2005, 249, 87-94.	1.8	53
90	Mycobacterium bovis BCG Attenuates Surface Expression of Mature Class II Molecules through IL-10-Dependent Inhibition of Cathepsin S. Journal of Immunology, 2005, 175, 5324-5332.	0.8	80

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91	Deletion of the Mycobacterium tuberculosis pknH Gene Confers a Higher Bacillary Load during the Chronic Phase of Infection in BALB/c Mice. Journal of Bacteriology, 2005, 187, 5751-5760.	2.2	113
92	Targeted Mutagenesis of the Mycobacterium smegmatis mca Gene, Encoding a Mycothiol-Dependent Detoxification Protein. Journal of Bacteriology, 2004, 186, 6050-6058.	2.2	54
93	Development of a Liposome Formulation of Ethambutol. Antimicrobial Agents and Chemotherapy, 2004, 48, 1887-1888.	3.2	15
94	The Mycobacterium tuberculosis protein serine/threonine kinase PknG is linked to cellular glutamate/glutamine levels and is important for growth in vivo. Molecular Microbiology, 2004, 52, 1691-1702.	2.5	228
95	Screening of compounds toxicity against human Monocytic cell line-THP-1 by flow cytometry. Biological Procedures Online, 2004, 6, 220-225.	2.9	41
96	The Mycobacterium tuberculosis ino1 gene is essential for growth and virulence. Molecular Microbiology, 2004, 51, 1003-1014.	2.5	85
97	Identification and characterization of a diamide sensitive mutant ofMycobacterium smegmatis. FEMS Microbiology Letters, 2003, 220, 161-169.	1.8	8
98	Characterization ofMycobacterium tuberculosisMycothiolS-Conjugate Amidaseâ€. Biochemistry, 2003, 42, 12067-12076.	2.5	62
99	Inactivation of mshB, a key gene in the mycothiol biosynthesis pathway in Mycobacterium smegmatis. Microbiology (United Kingdom), 2003, 149, 1341-1349.	1.8	61
100	The Glycosyltransferase Gene Encoding the Enzyme Catalyzing the First Step of Mycothiol Biosynthesis (mshA). Journal of Bacteriology, 2003, 185, 3476-3479.	2.2	79
101	Kinome Analysis of Host Response to Mycobacterial Infection: a Novel Technique in Proteomics. Infection and Immunity, 2003, 71, 5514-5522.	2.2	34
102	The Crystal Structure of 1-D-myo-Inosityl 2-Acetamido-2-deoxy-Î±-D-glucopyranoside Deacetylase (MshB) from Mycobacterium tuberculosis Reveals a Zinc Hydrolase with a Lactate Dehydrogenase Fold. Journal of Biological Chemistry, 2003, 278, 47166-47170.	3.4	71
103	Evidence That Plant-Like Genes in Chlamydia Species Reflect an Ancestral Relationship between Chlamydiaceae, Cyanobacteria, and the Chloroplast. Genome Research, 2002, 12, 1159-1167.	5.5	114
104	Mycothiol-Deficient Mycobacterium smegmatis Mutants Are Hypersensitive to Alkylating Agents, Free Radicals, and Antibiotics. Antimicrobial Agents and Chemotherapy, 2002, 46, 3348-3355.	3.2	175
105	Expression and localization of the Mycobacterium tuberculosis protein tyrosine phosphatase PtpA. Research in Microbiology, 2002, 153, 233-241.	2.1	68
106	Monitoring promoter activity and protein localization in Mycobacterium spp. using green fluorescent protein. Gene, 2001, 264, 225-231.	2.2	49
107	A protein kinase inhibitor as an antimycobacterial agent. FEMS Microbiology Letters, 2001, 205, 369-374.	1.8	45
108	A protein kinase inhibitor as an antimycobacterial agent. FEMS Microbiology Letters, 2001, 205, 369-374.	1.8	2

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109	N-Acetyl-1-d-myo-Inosityl-2-Amino-2-Deoxy-Î±-d-Glucopyranoside Deacetylase (MshB) Is a Key Enzyme in Mycothiol Biosynthesis. Journal of Bacteriology, 2000, 182, 6958-6963.	2.2	105
110	The eukaryotic-like Ser/Thr protein kinases of Mycobacterium tuberculosis. Trends in Microbiology, 2000, 8, 238-244.	7.7	353
111	A Novel Mycothiol-Dependent Detoxification Pathway in Mycobacteria Involving Mycothiol S-Conjugate Amidase. Biochemistry, 2000, 39, 10739-10746.	2.5	158
112	Cholesterol is accumulated by mycobacteria but its degradation is limited to non-pathogenic fast-growing mycobacteria. Canadian Journal of Microbiology, 2000, 46, 826-831.	1.7	33
113	DNA-Based Diagnostic Approaches for Identification of Burkholderia cepacia Complex, Burkholderia vietnamiensis, Burkholderia multivorans,Burkholderia stabilis, and Burkholderia cepacia Genomovars I and III. Journal of Clinical Microbiology, 2000, 38, 3165-3173.	3.9	446
114	Species identification and phylogenetic relationships based on partial HSP60 gene sequences within the genus Staphylococcus. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1181-1192.	1.7	118
115	Characterization ofMycobacterium smegmatisMutants Defective in 1-d-myo-Inosityl-2-amino-2-deoxy-Î±-d-glucopyranoside and Mycothiol Biosynthesis. Biochemical and Biophysical Research Communications, 1999, 255, 239-244.	2.1	96
116	Uncontrolled Release of Harmful Microorganisms. Science, 1999, 284, 1621b-1621.	12.6	3
117	Expression and Characterization of theMycobacterium tuberculosisSerine/Threonine Protein Kinase PknB. Infection and Immunity, 1999, 67, 5676-5682.	2.2	102
118	Components of Eukaryotic-like Protein Signaling Pathways inMycobacterium tuberculosis. Microbial & Comparative Genomics, 1997, 2, 63-73.	0.4	24
119	Epigenetic Phosphorylation Control ofMycobacterium tuberculosisInfection and Persistence. , 0, , 557-580.		1