Giovanna Riccardi

List of Publications by Year
in descending order

106	5,898	66343	82547
papers	citations	42 h-index	72 g-index

110	110	110	5505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Benzothiazinones Kill Mycobacterium tuberculosis by Blocking Arabinan Synthesis. Science, 2009, 324, 801-804.	12.6	660
2	High Content Screening Identifies Decaprenyl-Phosphoribose 2â€² Epimerase as a Target for Intracellular Antimycobacterial Inhibitors. PLoS Pathogens, 2009, 5, e1000645.	4.7	281
3	Role of mycobacterial efflux transporters in drug resistance: an unresolved question. FEMS Microbiology Reviews, 2006, 30, 36-52.	8.6	241
4	Global Analysis of the Mycobacterium tuberculosis Zur (FurB) Regulon. Journal of Bacteriology, 2007, 189, 730-740.	2.2	238
5	Azole resistance in Mycobacterium tuberculosis is mediated by the MmpS5â€“MmpL5 efflux system. Tuberculosis, 2009, 89, 84-90.	1.9	161
6	Structural Basis for Benzothiazinone-Mediated Killing of Mycobacterium tuberculosis. Science Translational Medicine, 2012, 4, 150ra121.	12.4	159
7	Benzothiazinones Are Suicide Inhibitors of Mycobacterial Decaprenylphosphoryl-Î²-<scp>d</scp>-ribofuranose 2â€²-Oxidase DprE1. Journal of the American Chemical Society, 2012, 134, 912-915.	13.7	155
8	Rv2686c-Rv2687c-Rv2688c, an ABC Fluoroquinolone Efflux Pump in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2004, 48, 3175-3178.	3.2	148
9	2-Carboxyquinoxalines Kill Mycobacterium tuberculosis through Noncovalent Inhibition of DprE1. ACS Chemical Biology, 2015, 10, 705-714.	3.4	116
10	Burkholderia cenocepacia Infections in Cystic Fibrosis Patients: Drug Resistance and Therapeutic Approaches. Frontiers in Microbiology, 2017, 8, 1592.	3.5	113
11	The Multidrug Transporters Belonging to Major Facilitator Superfamily (MFS) in Mycobacterium tuberculosis. Molecular Medicine, 2002, 8, 714-724.	4.4	111
12	mmpL7 Gene of Mycobacterium tuberculosis Is Responsible for Isoniazid Efflux in Mycobacterium smegmatis. Antimicrobial Agents and Chemotherapy, 2005, 49, 4775-4777.	3.2	110
13	Biofilm-Grown Burkholderia cepacia Complex Cells Survive Antibiotic Treatment by Avoiding Production of Reactive Oxygen Species. PLoS ONE, 2013, 8, e58943.	2.5	110
14	Title is missing!. Aquaculture International, 2002, 10, 123-141.	2.2	102
15	Antibiotic resistance of benthic bacteria in fish-farm and control sediments of the Western Mediterranean. Aquaculture, 2003, 219, 83-97.	3.5	102
16	4-Aminoquinolone Piperidine Amides: Noncovalent Inhibitors of DprE1 with Long Residence Time and Potent Antimycobacterial Activity. Journal of Medicinal Chemistry, 2014, 57, 5419-5434.	6.4	97
17	The TB structural genomics consortium: a resource for Mycobacterium tuberculosis biology. Tuberculosis, 2003, 83, 223-249.	1.9	95
18	The DprE1 enzyme, one of the most vulnerable targets of Mycobacterium tuberculosis. Applied Microbiology and Biotechnology, 2013, 97, 8841-8848.	3.6	92

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19	Clinical Isolates of Mycobacterium tuberculosis in Four European Hospitals Are Uniformly Susceptible to Benzothiazinones. Antimicrobial Agents and Chemotherapy, 2010, 54, 1616-1618.	3.2	90
20	Decaprenylphosphoryl-β-D-Ribose 2-Epimerase from Mycobacterium tuberculosis is a Magic Drug Target. Current Medicinal Chemistry, 2010, 17, 3099-3108.	2.4	88
21	Organization of the origins of replication of the chromosomes of Mycobacterium smegmatis, Mycobacterium leprae and Mycobacterium tuberculosis and isolation of a functional origin from M. smegmatis. Molecular Microbiology, 1996, 20, 283-293.	2.5	86
22	mmr , a Mycobacterium tuberculosis Gene Conferring Resistance to Small Cationic Dyes and Inhibitors. Journal of Bacteriology, 1998, 180, 6068-6071.	2.2	86
23	New tuberculosis drugs on the horizon. Current Opinion in Microbiology, 2011, 14, 570-576.	5.1	85
24	Efflux pump genes of the resistance-nodulation-division family in Burkholderia cenocepacia genome. BMC Microbiology, 2006, 6, 66.	3.3	82
25	Development of a repressible mycobacterial promoter system based on two transcriptional repressors. Nucleic Acids Research, 2010, 38, e134-e134.	14.5	74
26	Assessment of three Resistance-Nodulation-Cell Division drug efflux transporters of Burkholderia cenocepacia in intrinsic antibiotic resistance. BMC Microbiology, 2009, 9, 200.	3.3	72
27	Thiophenecarboxamide Derivatives Activated by EthA Kill Mycobacterium tuberculosis by Inhibiting the CTP Synthetase PyrG. Chemistry and Biology, 2015, 22, 917-927.	6.0	72
28	Mycobacterium tuberculosis: drug resistance and future perspectives. Future Microbiology, 2009, 4, 597-614.	2.0	68
29	Deciphering the Role of RND Efflux Transporters in Burkholderia cenocepacia. PLoS ONE, 2011, 6, e18902.	2.5	68
30	Transcriptional Regulation of furA and katG upon Oxidative Stress in Mycobacterium smegmatis. Journal of Bacteriology, 2001, 183, 6801-6806.	2.2	67
31	Molecular Mechanisms of Chlorhexidine Tolerance in Burkholderia cenocepacia Biofilms. Antimicrobial Agents and Chemotherapy, 2011, 55, 1912-1919.	3.2	67
32	Biological and structural characterization of the Mycobacterium smegmatis nitroreductase NfnB, and its role in benzothiazinone resistance. Molecular Microbiology, 2010, 77, 1172-1185.	2.5	63
33	Molecular Cloning and Functional Analysis of a Novel Tetracycline Resistance Determinant, tet (V), from Mycobacterium smegmatis. Antimicrobial Agents and Chemotherapy, 1998, 42, 1931-1937.	3.2	61
34	Mycobacterium tuberculosis FurA Autoregulates Its Own Expression. Journal of Bacteriology, 2003, 185, 5357-5362.	2.2	61
35	Characterisation and antimicrobial activity of epibiotic bacteria from Petrosia ficiformis (Porifera,) Tj ETQq1 1 0.784314 rgBT /Overloc	1.5	57
36	The multidrug transporters belonging to major facilitator superfamily in Mycobacterium tuberculosis. Molecular Medicine, 2002, 8, 714-24.	4.4	56

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37	Contribution of the multidrug efflux pump LfrA to innate mycobacterial drug resistance. FEMS Microbiology Letters, 2000, 193, 19-23.	1.8	54
38	Rv2358 and FurB: Two Transcriptional Regulators from Mycobacterium tuberculosis Which Respond to Zinc. Journal of Bacteriology, 2005, 187, 5837-5840.	2.2	50
39	Mycobacterium tuberculosis H37Rv comparative gene-expression analysis in synthetic medium and human macrophage. Gene, 2000, 253, 281-291.	2.2	46
40	The Mycobacterium tuberculosis Rv2358â€“furB operon is induced by zinc. Research in Microbiology, 2004, 155, 192-200.	2.1	46
41	Discovery of new diketopiperazines inhibiting Burkholderia cenocepacia quorum sensing in vitro and in vivo. Scientific Reports, 2016, 6, 32487.	3.3	46
42	Differential Roles of RND Efflux Pumps in Antimicrobial Drug Resistance of Sessile and Planktonic Burkholderia cenocepacia Cells. Antimicrobial Agents and Chemotherapy, 2014, 58, 7424-7429.	3.2	45
43	Promiscuous Targets for Antitubercular Drug Discovery: The Paradigm of DprE1 and MmpL3. Applied Sciences (Switzerland), 2020, 10, 623.	2.5	44
44	Trends in discovery of new drugs for tuberculosis therapy. Journal of Antibiotics, 2014, 67, 655-659.	2.0	43
45	Rv2466c Mediates the Activation of TP053 To Kill Replicating and Non-replicating Mycobacterium tuberculosis. ACS Chemical Biology, 2014, 9, 1567-1575.	3.4	41
46	A multitarget approach to drug discovery inhibiting Mycobacterium tuberculosis PyrG and PanK. Scientific Reports, 2018, 8, 3187.	3.3	41
47	Analogous Mechanisms of Resistance to Benzothiazinones and Dinitrobenzamides in Mycobacterium smegmatis. PLoS ONE, 2011, 6, e26675.	2.5	41
48	Genomic analysis of zinc homeostasis inMycobacterium tuberculosis. FEMS Microbiology Letters, 2008, 287, 1-7.	1.8	37
49	LfrR Is a Repressor That Regulates Expression of the Efflux Pump LfrA in Mycobacterium smegmatis. Antimicrobial Agents and Chemotherapy, 2006, 50, 4044-4052.	3.2	36
50	Phenotypic and Genotypic Characterisation of Burkholderia cenocepacia J2315 Mutants Affected in Homoserine Lactone and Diffusible Signal Factor-Based Quorum Sensing Systems Suggests Interplay between Both Types of Systems. PLoS ONE, 2013, 8, e55112.	2.5	36
51	New prodrugs against tuberculosis. Drug Discovery Today, 2017, 22, 519-525.	6.4	35
52	Structural Plasticity and Distinct Drug-Binding Modes of LfrR, a Mycobacterial Efflux Pump Regulator. Journal of Bacteriology, 2009, 191, 7531-7537.	2.2	34
53	A Phenotypic Based Target Screening Approach Delivers New Antitubercular CTP Synthetase Inhibitors. ACS Infectious Diseases, 2017, 3, 428-437.	3.8	34
54	Exploring the HME and HAE1 efflux systems in the genus Burkholderia. BMC Evolutionary Biology, 2010, 10, 164.	3.2	32

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55	PEGylated mucus-penetrating nanocrystals for lung delivery of a new FtsZ inhibitor against Burkholderia cenocepacia infection. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 23, 102113.	3.3	32
56	Evaluation of Fluoroquinolone Resistance Mechanisms inPseudomonas aeruginosaMultidrug Resistance Clinical Isolates. Microbial Drug Resistance, 2012, 18, 23-32.	2.0	31
57	Mechanism of Action of 5-Nitrothiophenes against Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 2944-2947.	3.2	31
58	Structural organization of pBC1, a cryptic plasmid from Bacillus coagulans. Journal of Bacteriology, 1992, 174, 638-642.	2.2	28
59	Competitive Fitness of Essential Gene Knockdowns Reveals a Broad-Spectrum Antibacterial Inhibitor of the Cell Division Protein FtsZ. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	28
60	The MTCY428.08 Gene of Mycobacterium tuberculosis Codes for NAD ⁺ Synthetase. Journal of Bacteriology, 1998, 180, 3218-3221.	2.2	26
61	Transcriptional analysis of ESAT-6 cluster 3 in Mycobacterium smegmatis. BMC Microbiology, 2009, 9, 48.	3.3	25
62	New shuttle vector for cloning in Bacillus stearothermophilus. Research in Microbiology, 1994, 145, 579-583.	2.1	23
63	The katE gene, which encodes the catalase HPII of Mycobacterium avium. Molecular Microbiology, 1996, 19, 113-123.	2.5	23
64	Amino acid biosynthesis and its regulation in cyanobacteria. Plant Science, 1989, 64, 135-151.	3.6	22
65	Cloning, sequencing and expression of the ilvBNC gene cluster from Streptomyces avermitilis. Gene, 1995, 166, 127-132.	2.2	22
66	Investigating the Mechanism of Action of Diketopiperazines Inhibitors of the Burkholderia cenocepacia Quorum Sensing Synthase CepI: A Site-Directed Mutagenesis Study. Frontiers in Pharmacology, 2018, 9, 836.	3.5	22
67	Vaccines to Overcome Antibiotic Resistance: The Challenge of Burkholderia cenocepacia. Trends in Microbiology, 2020, 28, 315-326.	7.7	21
68	Mycobacterium tuberculosis Phosphoribosylpyrophosphate Synthetase: Biochemical Features of a Crucial Enzyme for Mycobacterial Cell Wall Biosynthesis. PLoS ONE, 2010, 5, e15494.	2.5	19
69	Heterologous expression, purification, and enzymatic activity of Mycobacterium tuberculosis NAD+ synthetase. Protein Expression and Purification, 2002, 25, 547-557.	1.3	18
70	Molecular approaches to pathogenesis study of Burkholderia cenocepacia, an important cystic fibrosis opportunistic bacterium. Applied Microbiology and Biotechnology, 2011, 92, 887-895.	3.6	18
71	Ei¬„ux-mediated resistance to a benzothiadiazol derivative effective against Burkholderia cenocepacia. Frontiers in Microbiology, 2015, 6, 815.	3.5	18
72	Detection and characterization of acetohydroxy acid synthase inSpirulina platensis. FEMS Microbiology Letters, 1988, 49, 13-17.	1.8	17

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73	Glutamine amidotransferase activity of NAD+ synthetase from Mycobacterium tuberculosis depends on an amino-terminal nitrilase domain. Research in Microbiology, 2005, 156, 173-177.	2.1	17
74	Mechanism of Resistance to an Antitubercular 2-Thiopyridine Derivative That Is Also Active against Burkholderia cenocepacia. Antimicrobial Agents and Chemotherapy, 2014, 58, 2415-2417.	3.2	17
75	The Redox State Regulates the Conformation of Rv2466c to Activate the Antitubercular Prodrug TP053. Journal of Biological Chemistry, 2015, 290, 31077-31089.	3.4	17
76	Biochemical Characterization of Glutamate Racemaseâ€"A New Candidate Drug Target against Burkholderia cenocepacia Infections. PLoS ONE, 2016, 11, e0167350.	2.5	16
77	Characterization of Gram-positive broad host-range plasmids carrying a thermophilic replicon. Research in Microbiology, 1991, 142, 389-396.	2.1	15
78	A census of RND superfamily proteins in the Burkholderia genus. Future Microbiology, 2013, 8, 923-937.	2.0	15
79	Determination of a 15437 bp nucleotide sequence around the inhA gene of Mycobacterium avium and similarity analysis of the products of putative ORFs. Microbiology (United Kingdom), 1998, 144, 807-814.	1.8	14
80	Cloning of the glutamine synthetase gene fromspirulina platensis. Plant Molecular Biology, 1985, 4, 133-136.	3.9	13
81	Plasmid screening in thermophilicBacillus: Physical characterization and molecular cloning. Current Microbiology, 1989, 19, 13-19.	2.2	13
82	Biochemical evidence for multiple forms of acetohydroxy acid synthase in Spirulina platensis. Archives of Microbiology, 1991, 155, 298-302.	2.2	13
83	DprE1, a new taxonomic marker in mycobacteria. FEMS Microbiology Letters, 2013, 348, 66-73.	1.8	13
84	Characterization of mutants ofSpirulina platensisresistant to amino acid analogues. FEMS Microbiology Letters, 1981, 12, 333-336.	1.8	12
85	Techniques and Applications: The heterologous expression of Mycobacterium tuberculosis genes is an uphill road. Trends in Microbiology, 2003, 11, 351-358.	7.7	12
86	Raising awareness of the importance of funding for tuberculosis small-molecule research. Drug Discovery Today, 2017, 22, 487-491.	6.4	12
87	Identification and characterization of a new ligand-binding site in FnbB, a fibronectin-binding adhesin from Streptococcus dysgalactiae. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1646, 173-183.	2.3	11
88	New Insights into the Mechanism of Action of the Thienopyrimidine Antitubercular Prodrug TP053. ACS Infectious Diseases, 2020, 6, 313-323.	3.8	11
89	In vitro translation of chloroplast mRNAs. Plant Science Letters, 1982, 27, 191-202.	1.8	10
90	Detection and characterization of naturally occurring plasmids inBacillus licheniformis. FEMS Microbiology Letters, 1991, 81, 329-334.	1.8	9

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91	Molecular cloning and expression of Spirulina platensis acetohydroxy acid synthase genes in Escherichia coli. Archives of Microbiology, 1991, 155, 360-365.	2.2	9
92	The cell division protein FtsZ as a cellular target to hit cystic fibrosis pathogens. European Journal of Medicinal Chemistry, 2020, 190, 112132.	5.5	9
93	A highly efficient electroporation system for transformation of Bacillus licheniformis. Biotechnology Letters, 1991, 5, 5-8.	0.5	8
94	Cloning and sequencing of the ilvBNC gene cluster from Mycobacterium avium. Gene, 1996, 177, 83-85.	2.2	8
95	The Crystal Structure of Burkholderia cenocepacia DfsA Provides Insights into Substrate Recognition and Quorum Sensing Fatty Acid Biosynthesis. Biochemistry, 2016, 55, 3241-3250.	2.5	8
96	Molecular Characterization of the Burkholderia cenocepacia dcw Operon and FtsZ Interactors as New Targets for Novel Antimicrobial Design. Antibiotics, 2020, 9, 841.	3.7	8
97	Mutants ofSpirulina platensisresistant to valine inhibition. FEMS Microbiology Letters, 1988, 49, 19-23.	1.8	7
98	Functional investigation of the antitubercular drug target Decaprenylphosphoryl-Î²-D-ribofuranose-2-epimerase DprE1/DprE2 complex. Biochemical and Biophysical Research Communications, 2022, 607, 49-53.	2.1	7
99	Sequence of the gene encoding an alkaline serine protease of thermophilic Bacillus smithii. Gene, 1994, 145, 149-150.	2.2	6
100	Rv0579 Is Involved in the Resistance to the TP053 Antitubercular Prodrug. Frontiers in Microbiology, 2020, 11, 292.	3.5	5
101	Chemical, Metabolic, and Cellular Characterization of a FtsZ Inhibitor Effective Against Burkholderia cenocepacia. Frontiers in Microbiology, 2020, 11, 562.	3.5	5
102	Characterization of a mutant of chlamydomonas reinhardtII resistant to fusidic acid. FEBS Letters, 1981, 132, 227-230.	2.8	4
103	Sequence of the Bacillus stearothermophilus gene encoding aspartokinase II. Gene, 1996, 169, 135-136.	2.2	2
104	Antimicrobial Drug Efflux Pumps in Burkholderia. , 2016, , 417-438.		1
105	Construction of a cosmid library ofSpirulina platensisas an approach to DNA physical mapping. FEMS Microbiology Letters, 1985, 30, 239-244.	1.8	0
106	Editorial on Special Issue â€œTuberculosis Drug Discovery and Development 2019â€• Applied Sciences (Switzerland), 2020, 10, 6069.	2.5	0