

# CITATION REPORT

List of articles citing

## The biological cost of antibiotic resistance

DOI: 10.1016/s1369-5274(99)00005-3

Current Opinion in Microbiology, 1999, 2, 489-93.

**Source:** <https://exaly.com/paper-pdf/30738962/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
698	Mutation frequencies and antibiotic resistance. <b>2000</b> , 44, 1771-7		433
697	Biological cost of AmpC production for Salmonella enterica serotype Typhimurium. <b>2000</b> , 44, 3137-43		75
696	Genetic antagonism and hypermutability in Mycobacterium smegmatis. <b>2000</b> , 182, 3331-5		45
695	Assessment of DNA vaccine potential for juvenile Japanese flounder Paralichthys olivaceus, through the introduction of reporter genes by particle bombardment and histopathology. <b>2000</b> , 19, 801-9		16
694	The cost of antibiotic resistance from a bacterial perspective. <b>2000</b> , 3, 237-245		116
693	Drug targets and mechanisms of resistance in the anaerobic protozoa. <b>2001</b> , 14, 150-64		410
692	The hidden impact of antibacterial resistance in respiratory tract infection. Steering an appropriate course: principles to guide antibiotic choice. <b>2001</b> , 95 Suppl A, S20-5; discussion S26-7		8
691	The rise and fall of antimicrobial resistance. <b>2001</b> , 9, 438-44		142
690	Antibiotic resistance of bacteria from shrimp ponds. <b>2001</b> , 195, 193-204		166
689	Environmental selection of antibiotic resistance genes. <b>2001</b> , 3, 1-9		281
688	Biological cost and compensatory evolution in fusidic acid-resistant Staphylococcus aureus. <b>2001</b> , 40, 433-9		193
687	Predicting the emergence of resistance to antifungal drugs. <b>2001</b> , 204, 1-7		19
686	Phenotypic switching of antibiotic resistance circumvents permanent costs in Staphylococcus aureus. <b>2001</b> , 11, 1810-4		103
685	Mathematical models as tools for evaluating the effectiveness of interventions: a comment on Levin. <b>2001</b> , 33 Suppl 3, S174-9		6
684	Divergence in fitness and evolution of drug resistance in experimental populations of Candida albicans. <b>2001</b> , 183, 2971-8		89
683	Minimizing potential resistance: the molecular view. <b>2001</b> , 33 Suppl 3, S138-46		45
682	Minimizing potential resistance: a population dynamics view. <b>2001</b> , 33 Suppl 3, S161-9		114

681	Macrolide resistance conferred by base substitutions in 23S rRNA. <b>2001</b> , 45, 1-12	430
680	Mutation frequency and biological cost of antibiotic resistance in <i>Helicobacter pylori</i> . <b>2001</b> , 98, 14607-12	301
679	Emergence of tetracycline resistance in <i>Helicobacter pylori</i> : multiple mutational changes in 16S ribosomal DNA and other genetic loci. <b>2002</b> , 46, 3940-6	70
678	Stability, persistence, and evolution of plasmid-encoded VanA glycopeptide resistance in enterococci in the absence of antibiotic selection in vitro and in gnotobiotic mice. <b>2002</b> , 8, 161-70	61
677	Interactions among strategies associated with bacterial infection: pathogenicity, epidemicity, and antibiotic resistance. <b>2002</b> , 15, 647-79	341
676	Effect of <i>katG</i> mutations on the virulence of <i>Mycobacterium tuberculosis</i> and the implication for transmission in humans. <b>2002</b> , 70, 4955-60	212
675	Fitness of in vitro selected <i>Pseudomonas aeruginosa</i> <i>nalB</i> and <i>nfxB</i> multidrug resistant mutants. <b>2002</b> , 50, 657-64	138
674	Biological cost of rifampin resistance from the perspective of <i>Staphylococcus aureus</i> . <b>2002</b> , 46, 3381-5	85
673	Evolution of microbial genomes: sequence acquisition and loss. <b>2002</b> , 19, 2265-76	112
672	The cost of microbial resistance. <b>2002</b> , 18, 96-97	
671	Frequency of bacteriocin resistance development and associated fitness costs in <i>Listeria monocytogenes</i> . <b>2002</b> , 68, 756-64	130
670	Antibiotic therapy of community respiratory tract infections: strategies for optimal outcomes and minimized resistance emergence. <b>2002</b> , 49, 31-40	170
669	Level and percentage recovery of resistance to oxytetracycline and oxolinic acid of bacteria from shrimp ponds. <b>2002</b> , 213, 1-13	32
668	Animal antibiotic use has an early but important impact on the emergence of antibiotic resistance in human commensal bacteria. <b>2002</b> , 99, 6434-9	316
667	Why are bacteria refractory to antimicrobials?. <i>Current Opinion in Microbiology</i> , <b>2002</b> , 5, 472-7	7.9 119
666	Antimicrobial use and antimicrobial resistance: a population perspective. <b>2002</b> , 8, 347-54	319
665	Dynamics of success and failure in phage and antibiotic therapy in experimental infections. <b>2002</b> , 2, 35	85
664	Why should parasite resistance be costly?. <b>2002</b> , 18, 116-20	94

663	Antibiotic-resistant sub-populations of the pathogenic bacterium <i>Staphylococcus aureus</i> confer population-wide resistance. <b>2002</b> , 12, R686-7	16
662	Estimating the instability parameters of plasmid-bearing cells. I. Chemostat culture. <b>2002</b> , 219, 193-205	27
661	Evolution and spread of antibiotic resistance. <b>2002</b> , 252, 91-106	271
660	Compensatory adaptation to the deleterious effect of antibiotic resistance in <i>Salmonella typhimurium</i> . <b>2002</b> , 46, 355-66	181
659	Community-acquired Methicillin-resistant <i>Staphylococcus aureus</i> : Epidemiology and Potential Virulence Factors. <b>2003</b> , 5, 459-466	40
658	Characterisation of methicillin-resistant <i>Staphylococcus aureus</i> with reduced susceptibility to teicoplanin in Eastern France. <b>2003</b> , 22, 504-6	8
657	Molecular analysis of fusidic acid resistance in <i>Staphylococcus aureus</i> . <b>2003</b> , 47, 463-9	80
656	Geographic diversity and temporal trends of antimicrobial resistance in <i>Streptococcus pneumoniae</i> in the United States. <b>2003</b> , 9, 424-30	173
655	Exploiting genomics, genetics and chemistry to combat antibiotic resistance. <b>2003</b> , 4, 432-41	85
654	Antimicrobial properties of the <i>Escherichia coli</i> R1 plasmid host killing peptide. <b>2003</b> , 100, 1-12	23
653	The growth and survivability of <i>Streptococcus pneumoniae</i> clinical isolates subjected to various environmental conditions. <b>2003</b> , 45, 153-64	4
652	Arming the enemy: the evolution of resistance to self-proteins. <b>2003</b> , 149, 1367-1375	101
651	Impact of elements containing glycopeptide resistance genes on expression of virulence in <i>Enterococcus faecalis</i> peritonitis: a pilot study with rats. <b>2003</b> , 47, 1560-4	5
650	Reemergence of Established Pathogens in the 21st Century. <b>2003</b> ,	3
649	The isoleucyl-tRNA synthetase mutation V588F conferring mupirocin resistance in glycopeptide-intermediate <i>Staphylococcus aureus</i> is not associated with a significant fitness burden. <b>2004</b> , 53, 102-4	32
648	Effect of drug resistance on the generation of secondary cases of tuberculosis. <b>2003</b> , 188, 1878-84	78
647	Challenges in pharmacodynamic studies of antimicrobial resistance. <b>2003</b> , 37, 1329-30	2
646	Fitness cost of fluoroquinolone resistance in <i>Salmonella enterica</i> serovar Typhimurium. <b>2003</b> , 52, 697-703	59

645	Biological costs and mechanisms of fosfomycin resistance in <i>Escherichia coli</i> . <b>2003</b> , 47, 2850-8	179
644	Fitness of antibiotic resistant <i>Staphylococcus epidermidis</i> assessed by competition on the skin of human volunteers. <b>2003</b> , 52, 258-63	42
643	Antibiotics: Mode of Action, Mechanisms of Resistance, and Transfer. 45-56	7
642	Long-term persistence of resistant <i>Enterococcus</i> species after antibiotics to eradicate <i>Helicobacter pylori</i> . <b>2003</b> , 139, 483-7	117
641	Distribution of an Oxytetracycline Resistance Determinant tet(34) among Marine Bacterial Isolates of a <i>Vibrio</i> species. <b>2003</b> , 18, 74-81	11
640	Bacterial resistance to penicillin G by decreased affinity of penicillin-binding proteins: a mathematical model. <b>2003</b> , 9, 411-7	26
639	Multi-resistant Enterobacteriaceae in Hospital Practice. <b>2004</b> , 205-243	
638	. <b>2004</b> ,	7
637	Clinical manifestations and molecular epidemiology of necrotizing pneumonia and empyema caused by <i>Streptococcus pneumoniae</i> in children in Taiwan. <b>2004</b> , 38, 830-5	98
636	Combining mathematical models and statistical methods to understand and predict the dynamics of antibiotic-sensitive mutants in a population of resistant bacteria during experimental evolution. <b>2004</b> , 168, 1131-44	59
635	Comparative analysis of <i>Clostridium difficile</i> clinical isolates belonging to different genetic lineages and time periods. <b>2004</b> , 53, 1129-1136	85
634	FITNESS COSTS OF INSECTICIDE RESISTANCE IN NATURAL BREEDING SITES OF THE MOSQUITO <i>CULEX PIPIENS</i> . <b>2004</b> , 58, 128	10
633	PARASITISM INCREASES AND DECREASES THE COSTS OF INSECTICIDE RESISTANCE IN MOSQUITOES. <b>2004</b> , 58, 579	2
632	Analysis of mupirocin resistance and fitness in <i>Staphylococcus aureus</i> by molecular genetic and structural modeling techniques. <b>2004</b> , 48, 4366-76	65
631	The evolution of a pleiotropic fitness tradeoff in <i>Pseudomonas fluorescens</i> . <b>2004</b> , 101, 8072-7	135
630	Fitness cost of SCCmec and methicillin resistance levels in <i>Staphylococcus aureus</i> . <b>2004</b> , 48, 2295-7	130
629	Plasmid-encoded functions compensate for the biological cost of AmpC overexpression in a clinical isolate of <i>Salmonella typhimurium</i> . <b>2004</b> , 53, 964-70	31
628	Evolution of ciprofloxacin-resistant <i>Staphylococcus aureus</i> in in vitro pharmacokinetic environments. <b>2004</b> , 48, 4733-44	55

627	Fitness costs of insecticide resistance in natural breeding sites of the mosquito <i>Culex pipiens</i> . <b>2004</b> , 58, 128-35	130
626	PARASITISM INCREASES AND DECREASES THE COSTS OF INSECTICIDE RESISTANCE IN MOSQUITOES. <b>2004</b> , 58, 579-586	62
625	Modeling epidemics of multidrug-resistant <i>M. tuberculosis</i> of heterogeneous fitness. <b>2004</b> , 10, 1117-21	217
624	Residues of selected antibiotics in water and mud from shrimp ponds in mangrove areas in Viet Nam. <b>2004</b> , 49, 922-9	203
623	Factors associated with antimicrobial resistance among clinical isolates of <i>Klebsiella pneumoniae</i> : 1-year survey in a French university hospital. <b>2004</b> , 23, 456-62	15
622	Impact of drug resistance on fitness of <i>Mycobacterium tuberculosis</i> strains of the W-Beijing genotype. <b>2004</b> , 42, 281-90	55
621	Colony-forming analysis of bacterial community succession in deglaciated soils indicates pioneer stress-tolerant opportunists. <b>2004</b> , 48, 316-23	38
620	Isoniazid resistance and the future of drug-resistant tuberculosis. <b>2004</b> , 10, 280-5	49
619	Mechanisms of resistance among respiratory tract pathogens. <b>2004</b> , 24, 419-53	7
618	Preclinical evaluation of novel antibacterial agents by microbiological and molecular techniques. <b>2004</b> , 13, 1045-63	84
617	Preliminary investigation on the environmental occurrence and effects of antibiotics used in aquaculture in Italy. <b>2004</b> , 54, 661-8	213
616	Adaptation to the deleterious effects of antimicrobial drug resistance mutations by compensatory evolution. <b>2004</b> , 155, 360-9	181
615	Enhancement of host fitness by the <i>sul2</i> -coding plasmid p9123 in the absence of selective pressure. <b>2004</b> , 53, 958-63	117
614	Antimicrobial Resistance and the Microflora of the Gastrointestinal Tract. 213-226	1
613	Crosstalk between antibiotic resistance and virulence in <i>Pseudomonas aeruginosa</i> . <b>2005</b> , 16, 155-161	2
612	Molecular analysis of methicillin-resistant <i>Staphylococcus aureus</i> reveals an absence of plasmid DNA in multidrug-resistant isolates. <b>2005</b> , 44, 297-302	12
611	Why has the dihydrofolate reductase 164 mutation not consistently been found in Africa yet?. <b>2005</b> , 99, 341-6	32
610	Antibiotic resistance as a model for strain engineering. <b>2005</b> , 29, 509-517	5

609	Effect of a Povidone-Iodine Treatment on <i>Litopenaeus vannamei</i> Larvae in a Commercial Hatchery Setting. <b>2005</b> , 36, 546-553	
608	Multicellular organization in bacteria as a target for drug therapy. <b>2005</b> , 8, 800-810	52
607	Comparing artificial and natural selection in rate of adaptation to genetic stress in <i>Aspergillus nidulans</i> . <b>2005</b> , 18, 771-8	28
606	Maintaining a healthy SPANC balance through regulatory and mutational adaptation. <b>2005</b> , 57, 1-8	141
605	Effect of quinolone treatment on selection and persistence of quinolone-resistant <i>Escherichia coli</i> in swine faecal flora. <b>2005</b> , 99, 954-9	16
604	New media for the semiselective isolation and enumeration of <i>Xanthomonas campestris</i> pv. <i>mangiferaeindicae</i> , the causal agent of mango bacterial black spot. <b>2005</b> , 99, 803-15	21
603	Missense meanderings in sequence space: a biophysical view of protein evolution. <b>2005</b> , 6, 678-87	490
602	EVOLUTION O ANTIBIOTIC RESISTANCE BY HUMAN AND BACTERIAL NECHE CONSTRUCTION. <b>2005</b> , 59, 477-491	42
601	Modeling the impact of periodic bottlenecks, unidirectional mutation, and observational error in experimental evolution. <b>2005</b> , 50, 645-62	14
600	Heterogeneity of methicillin-resistant <i>Staphylococcus aureus</i> strains at a German university hospital during a 1-year period. <b>2005</b> , 24, 388-98	21
599	Structure-activity relationship study of anoplin. <b>2005</b> , 11, 113-21	40
598	<i>Staphylococcus aureus</i> resistente a vancomicina.. <b>2005</b> , 25, 575	3
597	Persistence of resistant <i>Staphylococcus epidermidis</i> after single course of clarithromycin. <b>2005</b> , 11, 1389-93	47
596	Antimicrobial resistance determinants and future control. <b>2005</b> , 11, 794-801	189
595	Survivability of vancomycin resistant enterococci and fitness cost of vancomycin resistance acquisition. <b>2005</b> , 58, 744-6	33
594	Adaptation to the cost of resistance: a model of compensation, recombination, and selection in a haploid organism. <b>2005</b> , 272, 85-9	19
593	Reduction of the fitness burden of quinolone resistance in <i>Pseudomonas aeruginosa</i> . <b>2005</b> , 55, 22-30	98
592	EVOLUTION OF ANTIBIOTIC RESISTANCE BY HUMAN AND BACTERIAL NICHE CONSTRUCTION. <b>2005</b> , 59, 477	1

591	Fitness cost due to mutations in the 16S rRNA associated with spectinomycin resistance in <i>Chlamydia psittaci</i> 6BC. <b>2005</b> , 49, 4455-64	38
590	Frequency of spontaneous mutations that confer antibiotic resistance in <i>Chlamydia</i> spp. <b>2005</b> , 49, 2865-73	33
589	Drug resistance evolution of a <i>Mycobacterium tuberculosis</i> strain from a noncompliant patient. <b>2005</b> , 43, 3114-20	29
588	Compensatory adaptation to the loss of biological fitness associated with acquisition of fusidic acid resistance in <i>Staphylococcus aureus</i> . <b>2005</b> , 49, 1426-31	42
587	Overexpression of the multidrug efflux pumps MexCD-OprJ and MexEF-OprN is associated with a reduction of type III secretion in <i>Pseudomonas aeruginosa</i> . <b>2005</b> , 187, 1384-91	124
586	Assessment of the fitness impacts on <i>Escherichia coli</i> of acquisition of antibiotic resistance genes encoded by different types of genetic element. <b>2005</b> , 56, 544-51	76
585	Pharmacodynamic modeling of ciprofloxacin resistance in <i>Staphylococcus aureus</i> . <b>2005</b> , 49, 209-19	50
584	Enhanced in vivo fitness of fluoroquinolone-resistant <i>Campylobacter jejuni</i> in the absence of antibiotic selection pressure. <b>2005</b> , 102, 541-6	275
583	Community-acquired methicillin-resistant <i>Staphylococcus aureus</i> : an emerging threat. <b>2005</b> , 5, 275-86	633
582	The coupon collector and the suppressor mutation: estimating the number of compensatory mutations by maximum likelihood. <b>2005</b> , 170, 1323-32	69
581	Prospects for aminoacyl-tRNA synthetase inhibitors as new antimicrobial agents. <b>2005</b> , 49, 4821-33	188
580	[Antimicrobial resistance and bacterial virulence]. <b>2005</b> , 23, 86-93	6
579	Effects of probiotics on the composition of the intestinal microbiota following antibiotic therapy. <b>2005</b> , 26, 69-74	50
578	Microbial Experimental Systems in Ecology. <b>2005</b> , 37, 273-307	53
577	The competitive cost of antibiotic resistance in <i>Mycobacterium tuberculosis</i> . <b>2006</b> , 312, 1944-6	468
576	Potential impacts of antibiotic use in poultry production. <b>2006</b> , 50, 161-72	92
575	Antibiotic resistance genes as emerging contaminants: studies in northern Colorado. <b>2006</b> , 40, 7445-50	1159
574	Molecular epidemiology of tuberculosis: current insights. <b>2006</b> , 19, 658-85	277

573	Antimicrobial resistance in tuberculosis: an international perspective. <b>2006</b> , 4, 759-66	16
572	The biological cost of mutational antibiotic resistance: any practical conclusions?. <i>Current Opinion in Microbiology</i> , <b>2006</b> , 9, 461-5	7.9 320
571	Antibiotic resistance in Salmonella infections. 25-56	1
570	VACCINATION, WITHIN-HOST DYNAMICS, AND VIRULENCE EVOLUTION. <b>2006</b> , 60, 13-23	50
569	Reducing the cost of resistance; experimental evolution in the filamentous fungus <i>Aspergillus nidulans</i> . <b>2006</b> , 19, 1115-27	46
568	Effect of cheese consumption on emergence of antimicrobial resistance in the intestinal microflora induced by a short course of amoxicillin-clavulanic acid. <b>2007</b> , 102, 1052-9	6
567	Distribution of fitness effects among beneficial mutations before selection in experimental populations of bacteria. <b>2006</b> , 38, 484-8	174
566	Can landscape ecology untangle the complexity of antibiotic resistance?. <b>2006</b> , 4, 943-52	117
565	Fitness of antimicrobial-resistant <i>Campylobacter</i> and <i>Salmonella</i> . <b>2006</b> , 8, 1972-8	60
564	Stability of soybean recombinant plasmid over six generations. <b>2006</b> , 15, 305-11	18
563	Impact of bacterial genetics on the transmission of isoniazid-resistant <i>Mycobacterium tuberculosis</i> . <b>2006</b> , 2, e61	168
562	The role of compensatory mutations in the emergence of drug resistance. <b>2006</b> , 2, e137	93
561	Use of a nonmedicated dietary supplement correlates with increased prevalence of streptomycin-sulfa-tetracycline-resistant <i>Escherichia coli</i> on a dairy farm. <b>2006</b> , 72, 4583-8	70
560	Efficacy and potential for resistance selection of antipseudomonal treatments in a mouse model of lung infection by hypermutable <i>Pseudomonas aeruginosa</i> . <b>2006</b> , 50, 975-83	68
559	Hydrolysis of ATP by aminoglycoside 3'-phosphotransferases: an unexpected cost to bacteria for harboring an antibiotic resistance enzyme. <b>2006</b> , 281, 6964-9	21
558	Contribution of <i>rpoB2</i> RNA polymerase beta subunit gene to rifampin resistance in <i>Nocardia</i> species. <b>2006</b> , 50, 1342-6	37
557	VACCINATION, WITHIN-HOST DYNAMICS, AND VIRULENCE EVOLUTION. <b>2006</b> , 60, 13	2
556	Tuberculosis chemotherapy: the influence of bacillary stress and damage response pathways on drug efficacy. <b>2006</b> , 19, 558-70	112

555	Reducing the fitness cost of antibiotic resistance by amplification of initiator tRNA genes. <b>2006</b> , 103, 6976-81	99
554	Molecular genetic and structural modeling studies of <i>Staphylococcus aureus</i> RNA polymerase and the fitness of rifampin resistance genotypes in relation to clinical prevalence. <b>2006</b> , 50, 298-309	91
553	Incremental increase in fitness cost with increased beta -lactam resistance in pneumococci evaluated by competition in an infant rat nasal colonization model. <b>2006</b> , 193, 1296-303	55
552	Evidence of antibiotic resistance gene silencing in <i>Escherichia coli</i> . <b>2006</b> , 50, 3003-10	55
551	Upgrading antibiotic use within a class: tradeoff between resistance and treatment success. <b>2006</b> , 103, 9655-60	35
550	Responses of wild-type and resistant strains of the hyperthermophilic bacterium <i>Thermotoga maritima</i> to chloramphenicol challenge. <b>2007</b> , 73, 5058-65	16
549	Frequency of development and associated physiological cost of azithromycin resistance in <i>Chlamydia psittaci</i> 6BC and <i>C. trachomatis</i> L2. <b>2007</b> , 51, 4267-75	44
548	Mutations in <i>rsmG</i> , encoding a 16S rRNA methyltransferase, result in low-level streptomycin resistance and antibiotic overproduction in <i>Streptomyces coelicolor</i> A3(2). <b>2007</b> , 189, 3876-83	83
547	Cryptic population dynamics: rapid evolution masks trophic interactions. <b>2007</b> , 5, e235	169
546	Antiviral resistance and the control of pandemic influenza. <b>2007</b> , 4, e15	163
545	Identification of the RsmG methyltransferase target as 16S rRNA nucleotide G527 and characterization of <i>Bacillus subtilis</i> <i>rsmG</i> mutants. <b>2007</b> , 189, 6068-73	33
544	Fitness cost of staphylococcal cassette chromosome <i>mec</i> in methicillin-resistant <i>Staphylococcus aureus</i> by way of continuous culture. <b>2007</b> , 51, 1497-9	83
543	Lysostaphin-resistant variants of <i>Staphylococcus aureus</i> demonstrate reduced fitness in vitro and in vivo. <b>2007</b> , 51, 475-82	48
542	A blasticidin S-resistant <i>Plasmodium falciparum</i> mutant with a defective plasmodial surface anion channel. <b>2007</b> , 104, 1063-8	49
541	Fitness costs of fluoroquinolone resistance in <i>Streptococcus pneumoniae</i> . <b>2007</b> , 51, 412-6	123
540	<i>Caenorhabditis elegans</i> as a model to determine fitness of antibiotic-resistant <i>Salmonella enterica</i> serovar typhimurium. <b>2007</b> , 51, 766-9	26
539	Optimizing drug exposure to minimize selection of antibiotic resistance. <b>2007</b> , 45 Suppl 2, S129-36	113
538	Mechanism of Drug Resistance in <i>Mycobacterium tuberculosis</i> . <b>2007</b> , 313-342	4

537	Antimicrobial resistance among invasive isolates of <i>Streptococcus pneumoniae</i> collected across Canada. <b>2007</b> , 59, 75-80	8
536	Subtherapeutic tylosin phosphate in broiler feed affects <i>Campylobacter</i> on carcasses during processing. <b>2007</b> , 86, 1229-33	6
535	Broad-spectrum in vitro antibacterial activities of clay minerals against antibiotic-susceptible and antibiotic-resistant bacterial pathogens. <b>2008</b> , 61, 353-61	116
534	Erratum: Can landscape ecology untangle the complexity of antibiotic resistance?. <b>2007</b> , 5, 82-82	4
533	Predicting antibiotic resistance. <b>2007</b> , 5, 958-65	255
532	Loss of a conserved 7-methylguanosine modification in 16S rRNA confers low-level streptomycin resistance in bacteria. <b>2007</b> , 63, 1096-106	210
531	Multiple mechanisms to ameliorate the fitness burden of mupirocin resistance in <i>Salmonella typhimurium</i> . <b>2007</b> , 64, 1038-48	53
530	The effect of ingestion of milk supplemented with salivaricin A-producing <i>Streptococcus salivarius</i> on the bacteriocin-like inhibitory activity of streptococcal populations on the tongue. <b>2007</b> , 59, 584-91	29
529	Association patterns of <i>Pseudomonas aeruginosa</i> clinical isolates as revealed by virulence traits, antibiotic resistance, serotype and genotype. <b>2007</b> , 51, 505-16	15
528	Tetracycline-resistance in lactose-positive enteric coliforms originating from Belgian fattening pigs: degree of resistance, multiple resistance and risk factors. <b>2007</b> , 78, 339-51	35
527	The role of IS6110 in the evolution of <i>Mycobacterium tuberculosis</i> . <b>2007</b> , 87, 393-404	91
526	Effects of rapid prey evolution on predator-prey cycles. <b>2007</b> , 55, 541-73	62
525	Insertion mode of a novel anionic antimicrobial peptide MDpep5 (Val-Glu-Ser-Trp-Val) from Chinese traditional edible larvae of housefly and its effect on surface potential of bacterial membrane. <b>2008</b> , 48, 1187-94	42
524	Emerging antibiotic resistance in bacteria with special reference to India. <b>2008</b> , 33, 593-603	62
523	Proportions of different habitat types are critical to the fate of a resistance allele. <b>2008</b> , 1, 103-115	17
522	Tuberculosis: drug resistance, fitness, and strategies for global control. <b>2008</b> , 167, 141-8	50
521	Protected environments allow parallel evolution of a bacterial pathogen in a patient subjected to long-term antibiotic therapy. <b>2001</b> , 42, 619-30	32
520	The great opportunity: Evolutionary applications to medicine and public health. <b>2008</b> , 1, 28-48	129

519	Antibiotic resistance in the absence of antimicrobial use: mechanisms and implications. <b>2008</b> , 6, 725-32	80
518	Development of glycopeptide-intermediate resistance by <i>Staphylococcus aureus</i> leads to attenuated infectivity in a rat model of endocarditis. <b>2008</b> , 45, 408-14	24
517	Dramatic activation of antibiotic production in <i>Streptomyces coelicolor</i> by cumulative drug resistance mutations. <b>2008</b> , 74, 2834-40	111
516	Nitrofurantoin resistance mechanism and fitness cost in <i>Escherichia coli</i> . <b>2008</b> , 62, 495-503	121
515	Role of a sodium-dependent symporter homologue in the thermosensitivity of beta-lactam antibiotic resistance and cell wall composition in <i>Staphylococcus aureus</i> . <b>2008</b> , 52, 505-12	5
514	Fitness of <i>Streptococcus pneumoniae</i> fluoroquinolone-resistant strains with topoisomerase IV recombinant genes. <b>2008</b> , 52, 822-30	45
513	Fitness cost and impaired survival in penicillin-resistant <i>Streptococcus gordonii</i> isolates selected in the laboratory. <b>2008</b> , 52, 337-9	3
512	The streptomycin-sulfadiazine-tetracycline antimicrobial resistance element of calf-adapted <i>Escherichia coli</i> is widely distributed among isolates from Washington state cattle. <b>2008</b> , 74, 391-5	23
511	Comparison of adhesion and virulence of two predominant hospital-acquired methicillin-resistant <i>Staphylococcus aureus</i> clones and clonal methicillin-susceptible <i>S. aureus</i> isolates. <b>2008</b> , 76, 5133-8	21
510	In situ growth rates and biofilm development of <i>Pseudomonas aeruginosa</i> populations in chronic lung infections. <b>2008</b> , 190, 2767-76	157
509	Mechanism and fitness costs of PR-39 resistance in <i>Salmonella enterica</i> serovar Typhimurium LT2. <b>2008</b> , 52, 2734-41	59
508	Development, stability, and molecular mechanisms of macrolide resistance in <i>Campylobacter jejuni</i> . <b>2008</b> , 52, 3947-54	56
507	Lessons from molecular epidemiology and comparative genomics. <b>2008</b> , 29, 467-80	19
506	Positive epistasis drives the acquisition of multidrug resistance. <b>2009</b> , 5, e1000578	182
505	Impaired fitness of drug-resistant malaria parasites: evidence and implication on drug-deployment policies. <b>2009</b> , 7, 581-93	46
504	The fitness cost of streptomycin resistance depends on rpsL mutation, carbon source and RpoS ( $\sigma^S$ ). <b>2009</b> , 183, 539-46, 1S1-2S1	71
503	The epidemiological fitness cost of drug resistance in <i>Mycobacterium tuberculosis</i> . <b>2009</b> , 106, 14711-5	113
502	Inactivation of KsgA, a 16S rRNA methyltransferase, causes vigorous emergence of mutants with high-level kasugamycin resistance. <b>2009</b> , 53, 193-201	26

501	Antimikrobielle Resistenz als externer Effekt des Einsatzes von Antibiotika [Zusammenhänge und Implikationen für die pharmakoökonomische Analyse des klinischen Einsatzes von Antibiotika. <b>2009</b> , 14, 127-131	1
500	Evolutionary epidemiology of drug-resistance in space. <b>2009</b> , 5, e1000337	22
499	Nasal decolonization of <i>Staphylococcus aureus</i> with mupirocin: strengths, weaknesses and future prospects. <b>2009</b> , 64, 9-15	125
498	Analysis of mutational resistance to trimethoprim in <i>Staphylococcus aureus</i> by genetic and structural modelling techniques. <b>2009</b> , 63, 1112-7	29
497	Rapid contemporary evolution and clonal food web dynamics. <b>2009</b> , 364, 1579-91	83
496	Fitness cost of VanA-type vancomycin resistance in methicillin-resistant <i>Staphylococcus aureus</i> . <b>2009</b> , 53, 2354-9	95
495	Tracking costs of virulence in natural populations of the wheat pathogen, <i>Puccinia striiformis</i> f.sp.tritici. <b>2009</b> , 9, 26	47
494	<i>Mycobacterium tuberculosis</i> : Drug Resistance and Genetic Mechanisms [Facts, Artifacts, and Fallacies. 103-121	3
493	Antiviral resistance and the control of pandemic influenza: the roles of stochasticity, evolution and model details. <b>2009</b> , 256, 117-25	38
492	Multi-site analysis reveals widespread antibiotic resistance in the marine pathogen <i>Vibrio vulnificus</i> . <b>2009</b> , 57, 151-9	72
491	Bacterial gene amplification: implications for the evolution of antibiotic resistance. <b>2009</b> , 7, 578-88	196
490	A global view of antibiotic resistance. <b>2009</b> , 33, 44-65	226
489	Functional role of bacterial multidrug efflux pumps in microbial natural ecosystems. <b>2009</b> , 33, 430-49	308
488	The cost of multiple drug resistance in <i>Pseudomonas aeruginosa</i> . <b>2009</b> , 22, 997-1003	69
487	Fitness cost of drug resistance in <i>Mycobacterium tuberculosis</i> . <b>2009</b> , 15 Suppl 1, 66-8	65
486	Environmental pollution by antibiotics and by antibiotic resistance determinants. <b>2009</b> , 157, 2893-902	1116
485	No coexistence for free: neutral null models for multistrain pathogens. <b>2009</b> , 1, 2-13	96
484	Mathematical models of the epidemiology and control of drug-resistant TB. <b>2009</b> , 3, 67-79	30

483	Gene amplification and adaptive evolution in bacteria. <b>2009</b> , 43, 167-95	191
482	Ecology and evolution of antibiotic resistance. <b>2009</b> , 1, 469-76	103
481	The role of natural environments in the evolution of resistance traits in pathogenic bacteria. <b>2009</b> , 276, 2521-30	310
480	Viability and survival capability of quinolone-resistant uropathogenic <i>Escherichia coli</i> . <b>2010</b> , 5, 827-830	
479	Antibiotic resistance and its cost: is it possible to reverse resistance?. <b>2010</b> , 8, 260-71	1375
478	Reduced expression of virulence factors in multidrug-resistant <i>Pseudomonas aeruginosa</i> strains. <b>2010</b> , 192, 79-84	26
477	<i>Aeromonas</i> and <i>Pseudomonas</i> : antibiotic and heavy metal resistance species from Iskenderun Bay, Turkey (northeast Mediterranean Sea). <b>2010</b> , 167, 309-20	47
476	<i>Neisseria meningitidis</i> rifampicin resistant strains: analysis of protein differentially expressed. <b>2010</b> , 10, 246	13
475	Crystallization of dihydrodipicolinate synthase from a clinical isolate of <i>Streptococcus pneumoniae</i> . <b>2010</b> , 66, 32-6	11
474	Adaptation to pyrrolnitrin in <i>Botrytis cinerea</i> and cost of resistance. <b>2010</b> , 59, 556-566	30
473	Error-prone initiation factor 2 mutations reduce the fitness cost of antibiotic resistance. <b>2010</b> , 75, 1299-313	19
472	Offsetting virulence and antibiotic resistance costs by MRSA. <b>2010</b> , 4, 577-84	63
471	Assessing the emergence of resistance: the absence of biological cost in vivo may compromise fosfomycin treatments for <i>P. aeruginosa</i> infections. <b>2010</b> , 5, e10193	30
470	Little evidence for reversibility of trimethoprim resistance after a drastic reduction in trimethoprim use. <b>2010</b> , 65, 350-60	110
469	Reducing antimicrobial resistance in the community by restricting prescribing: can it be done?. <b>2010</b> , 65, 179-82	33
468	What is the mechanism for persistent coexistence of drug-susceptible and drug-resistant strains of <i>Streptococcus pneumoniae</i> ?. <b>2010</b> , 7, 905-19	64
467	Mutational neighbourhood and mutation supply rate constrain adaptation in <i>Pseudomonas aeruginosa</i> . <b>2010</b> , 277, 643-50	37
466	Impact of azithromycin resistance mutations on the virulence and fitness of <i>Chlamydia caviae</i> in guinea pigs. <b>2010</b> , 54, 1094-101	30

- 465 Inducible expression eliminates the fitness cost of vancomycin resistance in enterococci. **2010**, 107, 16964-9 89
- 464 Combating Resistance: The Case for a Global Antibiotics Treaty. **2010**, 3, 13-22 26
- 463 Functional roles of the conserved Glu304 loop of *Bacillus subtilis* glutamine synthetase. **2010**, 192, 5018-25 14
- 462 First description of bla(CTX-M-14)- and bla(CTX-M-15)-producing *Escherichia coli* isolates in Brazil. **2010**, 16, 177-84 27
- 461 Amplification of the gene for isoleucyl-tRNA synthetase facilitates adaptation to the fitness cost of mupirocin resistance in *Salmonella enterica*. **2010**, 185, 305-12 20
- 460 Rates and mechanisms of resistance development in *Mycobacterium tuberculosis* to a novel diarylquinoline ATP synthase inhibitor. **2010**, 54, 1022-8 140
- 459 In vitro selection of ertapenem and piperacillin/tazobactam-resistant strains of *Bacteroides fragilis* and analysis of their virulence in gnotobiotic mice. **2010**, 22, 259-63 1
- 458 Variability of *Listeria monocytogenes* virulence: a result of the evolution between saprophytism and virulence?. **2010**, 5, 1799-821 34
- 457 Capacity of serotype 19A and 15B/C *Streptococcus pneumoniae* isolates for experimental otitis media: Implications for the conjugate vaccine. **2010**, 28, 2450-7 12
- 456 Methods to determine fitness in bacteria. **2010**, 642, 113-21 27
- 455 Compensation of fitness costs and reversibility of antibiotic resistance mutations. **2010**, 54, 2085-95 103
- 454 The population genetics of antibiotic resistance: integrating molecular mechanisms and treatment contexts. **2010**, 11, 405-14 140
- 453 Hypermutability and compensatory adaptation in antibiotic-resistant bacteria. **2010**, 176, 303-11 42
- 452 Does the wide use of quaternary ammonium compounds enhance the selection and spread of antimicrobial resistance and thus threaten our health?. **2010**, 16, 91-104 236
- 451 Prospective strategies to delay the evolution of anti-malarial drug resistance: weighing the uncertainty. **2010**, 9, 217 37
- 450 Fitness cost of fluoroquinolone resistance in *Campylobacter coli* and *Campylobacter jejuni*. **2011**, 17, 171-9 24
- 449 Challenges of antibacterial discovery. **2011**, 24, 71-109 854
- 448 A protocol and cultivation system for gnotobiotic Atlantic cod larvae (*Gadus morhua* L.) as a tool to study host-microbe interactions. **2011**, 315, 222-227 25

447	Beyond serial passages: new methods for predicting the emergence of resistance to novel antibiotics. <b>2011</b> , 11, 439-45	65
446	Aquatic systems: maintaining, mixing and mobilising antimicrobial resistance?. <b>2011</b> , 26, 278-84	208
445	Population biological principles of drug-resistance evolution in infectious diseases. <b>2011</b> , 11, 236-47	150
444	Application of GFAT as a novel selection marker to mediate gene expression. <b>2011</b> , 6, e17082	10
443	Quantifying Anthropogenic Impacts on Environmental Reservoirs of Antibiotic Resistance. <b>2011</b> , 173-201	1
442	Environmental Pollution by Antibiotic Resistance Genes. <b>2011</b> , 149-172	1
441	The prevalence of antimicrobial-resistant Escherichia coli in sympatric wild rodents varies by season and host. <b>2011</b> , 110, 962-70	23
440	Escape from growth restriction in small colony variants of Salmonella typhimurium by gene amplification and mutation. <b>2011</b> , 79, 305-15	27
439	Mixed infection with Beijing and non-Beijing strains in pulmonary tuberculosis in Taiwan: prevalence, risk factors, and dominant strain. <b>2011</b> , 17, 1239-45	23
438	Strain diversity, epistasis and the evolution of drug resistance in Mycobacterium tuberculosis. <b>2011</b> , 17, 815-20	75
437	Lateral genetic transfer and the construction of genetic exchange communities. <b>2011</b> , 35, 707-35	121
436	Metabolic regulation of antibiotic resistance. <b>2011</b> , 35, 768-89	153
435	Persistence of antibiotic resistance in bacterial populations. <b>2011</b> , 35, 901-11	248
434	Origins of bacterial diversity through horizontal genetic transfer and adaptation to new ecological niches. <b>2011</b> , 35, 957-76	383
433	The length of adaptive walks is insensitive to starting fitness in Aspergillus nidulans. <b>2011</b> , 65, 3070-8	26
432	Prevalence of SOS-mediated control of integron integrase expression as an adaptive trait of chromosomal and mobile integrons. <b>2011</b> , 2, 6	79
431	The evolution of plasmid-carried antibiotic resistance. <b>2011</b> , 11, 130	62
430	In vitro antimicrobial activity of wall teichoic acid biosynthesis inhibitors against Staphylococcus aureus isolates. <b>2011</b> , 55, 767-74	35

429	Characterization and quantitation of a novel $\beta$ -lactamase gene found in a wastewater treatment facility and the surrounding coastal ecosystem. <b>2011</b> , 77, 8226-33	34
428	Selective advantage of resistant strains at trace levels of antibiotics: a simple and ultrasensitive color test for detection of antibiotics and genotoxic agents. <b>2011</b> , 55, 1204-10	110
427	The K <sup>+</sup> uptake regulator TrkA controls membrane potential, pH homeostasis and multidrug susceptibility in <i>Mycobacterium smegmatis</i> . <b>2011</b> , 66, 1489-98	27
426	Assessment of bacterial antibiotic resistance transfer in the gut. <b>2011</b> , 2011, 312956	107
425	Evolution of restraint in a structured rock-paper-scissors community. <b>2011</b> , 108 Suppl 2, 10831-8	88
424	Emergence of Resistance in Influenza With Compensatory Mutations. <b>2011</b> , 18, 106-121	9
423	Evaluating the efficacy of antimicrobial cycling programmes and patient isolation on dual resistance in hospitals. <b>2011</b> , 5, 27-43	21
422	Pervasive sign epistasis between conjugative plasmids and drug-resistance chromosomal mutations. <b>2011</b> , 7, e1002181	78
421	Reciprocal regulation of cephalosporin resistance in <i>Enterococcus faecalis</i> . <b>2011</b> , 2, e00199-11	46
420	Compensatory evolution of pbp mutations restores the fitness cost imposed by $\beta$ -lactam resistance in <i>Streptococcus pneumoniae</i> . <b>2011</b> , 7, e1002000	49
419	The Power of Plants: Introducing Ethnobotany & Biophilia into Your Biology Class. <b>2011</b> , 73, 217-221	5
418	Antimicrobials in animal feed: benefits and limitations. <b>2012</b> , 411-431	1
417	Genomewide overexpression screen for fosfomycin resistance in <i>Escherichia coli</i> : MurA confers clinical resistance at low fitness cost. <b>2012</b> , 56, 2767-9	35
416	In-roads to the spread of antibiotic resistance: regional patterns of microbial transmission in northern coastal Ecuador. <b>2012</b> , 9, 1029-39	17
415	The optimal deployment of synergistic antibiotics: a control-theoretic approach. <b>2012</b> , 9, 2488-502	15
414	Expression of OXA-type and SFO-1 $\beta$ -lactamases induces changes in peptidoglycan composition and affects bacterial fitness. <b>2012</b> , 56, 1877-84	25
413	Impaired fitness and transmission of macrolide-resistant <i>Campylobacter jejuni</i> in its natural host. <b>2012</b> , 56, 1300-8	41
412	Bottlenecks in the transferability of antibiotic resistance from natural ecosystems to human bacterial pathogens. <b>2011</b> , 2, 265	59

411	No evidence for transmission of antibiotic-resistant <i>Escherichia coli</i> strains from humans to wild western lowland gorillas in Lop National Park, Gabon. <b>2012</b> , 78, 4281-7	23
410	Characterization of a DHA-1-producing <i>Klebsiella pneumoniae</i> strain involved in an outbreak and role of the AmpR regulator in virulence. <b>2012</b> , 56, 288-94	29
409	Vancomycin resistant enterococci in farm animals - occurrence and importance. <b>2012</b> , 2,	52
408	The stepwise acquisition of fluconazole resistance mutations causes a gradual loss of fitness in <i>Candida albicans</i> . <b>2012</b> , 86, 539-56	57
407	Molecular biology of drug resistance in <i>Mycobacterium tuberculosis</i> . <b>2013</b> , 374, 53-80	99
406	High level multiple antibiotic resistance among fish surface associated bacterial populations in non-aquaculture freshwater environment. <b>2012</b> , 46, 6382-90	34
405	[The cost of antibiotic resistance: analysis and consequences]. <b>2012</b> , 60, e9-14	8
404	Virulence of a <i>Klebsiella pneumoniae</i> strain carrying the New Delhi metallo-beta-lactamase-1 (NDM-1). <b>2012</b> , 14, 155-8	28
403	Antimicrobial and antifouling hydrogels formed in situ from polycarbonate and poly(ethylene glycol) via Michael addition. <b>2012</b> , 24, 6484-9	198
402	Implications of stress-induced genetic variation for minimizing multidrug resistance in bacteria. <b>2012</b> , 10, 89	34
401	Differential epigenetic compatibility of qnr antibiotic resistance determinants with the chromosome of <i>Escherichia coli</i> . <b>2012</b> , 7, e35149	20
400	A fluoroquinolone resistance associated mutation in <i>gyrA</i> Affects DNA supercoiling in <i>Campylobacter jejuni</i> . <b>2012</b> , 2, 21	40
399	Clinically Relevant Antibiotic Resistance Mechanisms Can Enhance the In Vivo Fitness of <i>Neisseria gonorrhoeae</i> . <b>2012</b> ,	
398	Whole-genome sequencing of rifampicin-resistant <i>Mycobacterium tuberculosis</i> strains identifies compensatory mutations in RNA polymerase genes. <b>2011</b> , 44, 106-10	376
397	In vitro and in vivo reduced fitness and virulence in ciprofloxacin-resistant <i>Acinetobacter baumannii</i> . <b>2012</b> , 18, E1-4	24
396	The interconnection between biofilm formation and horizontal gene transfer. <b>2012</b> , 65, 183-95	344
395	ECONOMIC MODELING OF THE PERSISTENCE OF ANTIMICROBIAL RESISTANCE. <b>2012</b> , 25, 388-402	5
394	Sustainability assessment tools to support aquaculture development. <b>2012</b> , 32, 183-192	69

393	Disentangling mechanisms involved in the adaptation of photosynthetic microorganisms to the extreme sulphureous water from Los Baños de Vilo (S Spain). <b>2013</b> , 66, 742-51	11
392	Evolution of Escherichia coli rifampicin resistance in an antibiotic-free environment during thermal stress. <b>2013</b> , 13, 50	86
391	Impact of treatment heterogeneity on drug resistance and supply chain costs. <b>2013</b> , 47, 158-171	3
390	Antimicrobial resistance and virulence: a successful or deleterious association in the bacterial world?. <b>2013</b> , 26, 185-230	511
389	Antimalarial drug resistance: a review of the biology and strategies to delay emergence and spread. <b>2013</b> , 41, 311-7	81
388	Current and emergent strategies for disinfection of hospital environments. <b>2013</b> , 68, 2718-32	104
387	Concepts in disinfection of bacterial populations. <b>2013</b> , 245, 111-25	8
386	Can probiotics improve the environmental microbiome and resistome of commercial poultry production?. <b>2013</b> , 10, 4534-59	31
385	Experimental evolution as an efficient tool to dissect adaptive paths to antibiotic resistance. <b>2013</b> , 16, 96-107	34
384	Evolutionary reversals of antibiotic resistance in experimental populations of Pseudomonas aeruginosa. <b>2013</b> , 67, 2973-81	24
383	Mechanisms and fitness costs of tigecycline resistance in Escherichia coli. <b>2013</b> , 68, 2809-19	62
382	The cost of antibiotic resistance depends on evolutionary history in Escherichia coli. <b>2013</b> , 13, 163	32
381	Emergence of pulsed electric fields resistance in Salmonella enterica serovar Typhimurium SL1344. <b>2013</b> , 166, 219-25	18
380	Multidrug-resistant Tuberculosis. <b>2013</b> , 97, 553-79, ix-x	22
379	Epidemiological Study on Staphylococcus aureus Isolates Reveals Inverse Relationship between Antibiotic Resistance and Virulence Repertoire. <b>2013</b> , 53, 321-2	11
378	An improved small-molecule inhibitor of FtsZ with superior in vitro potency, drug-like properties, and in vivo efficacy. <b>2013</b> , 57, 317-25	86
377	Drug-resistant microorganisms with a higher fitness--can medicines boost pathogens?. <b>2013</b> , 39, 384-94	30
376	The heterogeneous evolution of multidrug-resistant Mycobacterium tuberculosis. <b>2013</b> , 29, 160-9	136

375	The contribution of common rpsL mutations in Escherichia coli to sensitivity to ribosome targeting antibiotics. <b>2013</b> , 303, 558-62	10
374	Antibacterial activity and mode of action of ferulic and gallic acids against pathogenic bacteria. <b>2013</b> , 19, 256-65	539
373	Molecular patterns of multidrug resistance of in Georgia. <b>2013</b> , 2, 73-78	11
372	Genetic diversity in Mycobacterium tuberculosis. <b>2013</b> , 374, 1-25	36
371	A genome-wide analysis of multidrug-resistant and extensively drug-resistant strains of Mycobacterium tuberculosis Beijing genotype. <b>2013</b> , 288, 425-36	11
370	Sensory and Microbial Quality of Retail Finfish With Emphasis on Antibiotic-Resistant Bacteria. <b>2013</b> , 22, 474-486	1
369	Epistasis between antibiotic resistance mutations drives the evolution of extensively drug-resistant tuberculosis. <b>2013</b> , 2013, 65-74	71
368	Collective action and individual choice: rethinking how we regulate narcotics and antibiotics. <b>2013</b> , 39, 752-6	17
367	Genomic insights into the fate of colistin resistance and Acinetobacter baumannii during patient treatment. <b>2013</b> , 23, 1155-62	69
366	Fitness costs of various mobile genetic elements in Enterococcus faecium and Enterococcus faecalis. <b>2013</b> , 68, 2755-65	48
365	Compensation of the metabolic costs of antibiotic resistance by physiological adaptation in Escherichia coli. <b>2013</b> , 57, 3752-62	48
364	Could bacteriophages transfer antibiotic resistance genes from environmental bacteria to human-body associated bacterial populations?. <b>2013</b> , 3, e25847	54
363	Putative compensatory mutations in the rpoC gene of rifampin-resistant Mycobacterium tuberculosis are associated with ongoing transmission. <b>2013</b> , 57, 827-32	151
362	Assessment of tuberculosis burden in China using a dynamic disease simulation model. <b>2013</b> , 17, 1186-94	25
361	Correlations between Microbiological Outcomes and Clinical Responses in Patients with Severe Pneumonia. <b>2013</b> , 45, 283-91	5
360	Directed evolution of aminoglycoside phosphotransferase (3') type IIIa variants that inactivate amikacin but impose significant fitness costs. <b>2013</b> , 8, e76687	8
359	Fitness benefits in fluoroquinolone-resistant Salmonella Typhi in the absence of antimicrobial pressure. <b>2013</b> , 2, e01229	75
358	Horizontal gene transfer in the human gastrointestinal tract: potential spread of antibiotic resistance genes. <b>2014</b> , 7, 167-76	264

357	Plasmid-encoded tetracycline efflux pump protein alters bacterial stress responses and ecological fitness of <i>Acinetobacter oleivorans</i> . <b>2014</b> , 9, e107716	15
356	Effects of Antibiotic Resistance on Bacterial Fitness, Virulence, and Transmission. <b>2014</b> , 307-318	1
355	Evolution of Bacterial Opportunistic Pathogens. <b>2014</b> , 85-91	
354	Human Interventions on the Evolution of Host-Bacterium Interactions. <b>2014</b> , 51-62	
353	Comparison of antibiotic resistance, virulence gene profiles, and pathogenicity of methicillin-resistant and methicillin-susceptible <i>Staphylococcus aureus</i> using a <i>Caenorhabditis elegans</i> infection model. <b>2014</b> , 108, 283-91	2
352	Emergence and spread of antibiotic resistance: setting a parameter space. <b>2014</b> , 119, 68-77	86
351	Pernicious pathogens or expedient elements of inheritance: the significance of yeast prions. <b>2014</b> , 10, e1003992	16
350	The genomic landscape of compensatory evolution. <b>2014</b> , 12, e1001935	99
349	Mathematical modeling of bacterial kinetics to predict the impact of antibiotic colonic exposure and treatment duration on the amount of resistant enterobacteria excreted. <b>2014</b> , 10, e1003840	21
348	Clonal expansion during <i>Staphylococcus aureus</i> infection dynamics reveals the effect of antibiotic intervention. <b>2014</b> , 10, e1003959	57
347	Emergence and maintenance of multidrug-resistant <i>Escherichia coli</i> of canine origin harbouring a bla <sub>CMY-2</sub> -IncI1/ST65 plasmid and topoisomerase mutations. <b>2014</b> , 69, 2076-80	9
346	Impact of isoniazid resistance on virulence of global and south Indian clinical isolates of <i>Mycobacterium tuberculosis</i> . <b>2014</b> , 94, 557-63	7
345	Fitness of drug resistant <i>Mycobacterium tuberculosis</i> and the impact on the transmission among household contacts. <b>2014</b> , 94, 672-7	8
344	An in vitro deletion in ribE encoding lumazine synthase contributes to nitrofurantoin resistance in <i>Escherichia coli</i> . <b>2014</b> , 58, 7225-33	20
343	Mutations in the primary sigma factor $\sigma^A$ and termination factor rho that reduce susceptibility to cell wall antibiotics. <b>2014</b> , 196, 3700-11	13
342	Testing the optimality properties of a dual antibiotic treatment in a two-locus, two-allele model. <b>2014</b> , 11, 20131035	8
341	The action of selected isothiocyanates on bacterial biofilm prevention and control. <b>2014</b> , 86, 25-33	44
340	Mathematical modeling on bacterial resistance to multiple antibiotics caused by spontaneous mutations. <b>2014</b> , 117, 60-7	22

- 339 Previously undescribed plasmids recovered from activated sludge confer tetracycline resistance and phenotypic changes to *Acinetobacter oleivorans* DR1. **2014**, 67, 369-79 11
- 338 Traditional cheeses: rich and diverse microbiota with associated benefits. **2014**, 177, 136-54 341
- 337 Antibiotic resistance is widespread in urban aquatic environments of Rio de Janeiro, Brazil. **2014**, 68, 441-52 28
- 336 The evolution of resistance against good and bad infections. **2014**, 27, 303-12 27
- 335 Antibiofilm Agents. **2014**, 6
- 334 Distinct roles of *Candida albicans* drug resistance transcription factors TAC1, MRR1, and UPC2 in virulence. **2014**, 13, 127-42 59
- 333 Microbiological effects of sublethal levels of antibiotics. **2014**, 12, 465-78 856
- 332 Fitness cost of ampicillin resistance in *Escherichia coli*. **2014**, 85, 1-7
- 331 Microscopic and spectroscopic analyses of chlorhexidine tolerance in *Delftia acidovorans* biofilms. **2014**, 58, 5673-86 13
- 330 Development of a bacterial challenge test for gnotobiotic Nile tilapia *Oreochromis niloticus* larvae. **2014**, 109, 23-33 23
- 329 Increased in vitro fitness of multi- and extensively drug-resistant F15/LAM4/KZN strains of *Mycobacterium tuberculosis*. **2014**, 20, O361-9 15
- 328 Metabolic compensation of fitness costs associated with overexpression of the multidrug efflux pump MexEF-OprN in *Pseudomonas aeruginosa*. **2014**, 58, 3904-13 33
- 327 Large-scale metagenomic-based study of antibiotic resistance in the environment. **2014**, 24, 1096-100 185
- 326 Bacterial multidrug efflux pumps: mechanisms, physiology and pharmacological exploitations. **2014**, 453, 254-67 413
- 325 Contamination profiles of antibiotic resistance genes in the sediments at a catchment scale. **2014**, 490, 708-14 90
- 324 Antibiotic Resistance and Fitness of Enteric Pathogens. **2014**, 283-296
- 323 Stress-response balance drives the evolution of a network module and its host genome. **2015**, 11, 827 61
- 322 Epidemiology of Antimicrobial-resistant Bacteria Isolated from Food -producing Animals. **2015**, 19, 91-95

321	Malthusian Parameters as Estimators of the Fitness of Microbes: A Cautionary Tale about the Low Side of High Throughput. <b>2015</b> , 10, e0126915	23
320	Studies of Antibiotic Resistance of Beta-Lactamase Bacteria under Different Nutrition Limitations at the Single-Cell Level. <b>2015</b> , 10, e0127115	9
319	Myo-inositol improves the host's ability to eliminate balofloxacin-resistant Escherichia coli. <b>2015</b> , 5, 10720	41
318	Altered Competitive Fitness, Antimicrobial Susceptibility, and Cellular Morphology in a Triclosan-Induced Small-Colony Variant of Staphylococcus aureus. <b>2015</b> , 59, 4809-16	19
317	Native California soils are selective reservoirs for multidrug-resistant bacteria. <b>2015</b> , 7, 442-9	11
316	Evolutionary consequences of drug resistance: shared principles across diverse targets and organisms. <b>2015</b> , 16, 459-71	150
315	Antibiotic-Resistant Bacteria and Resistance Genes in the Water-Soil Nexus of the Agricultural Environment. <b>2015</b> , 325-346	2
314	Fitness cost of resistance for lumefantrine and piperaquine-resistant Plasmodium berghei in a mouse model. <b>2015</b> , 14, 38	5
313	A tortoise-hare pattern seen in adapting structured and unstructured populations suggests a rugged fitness landscape in bacteria. <b>2015</b> , 112, 7530-5	47
312	Synthesis and biological activity of novel mono-indole and mono-benzofuran inhibitors of bacterial transcription initiation complex formation. <b>2015</b> , 23, 1763-75	23
311	Protein profiling of mefloquine resistant using mass spectrometry-based proteomics. <b>2015</b> , 391, 82-92	7
310	Costs of antibiotic resistance - separating trait effects and selective effects. <b>2015</b> , 8, 261-72	30
309	Fighting microbial drug resistance: a primer on the role of evolutionary biology in public health. <b>2015</b> , 8, 211-22	28
308	Modelling mechanical and chemical treatment of biofilms with two phenotypic resistance mechanisms. <b>2015</b> , 17, 1870-83	10
307	Spontaneous and on point: Do spontaneous mutations used for laboratory experiments cause pleiotropic effects that might confound bacterial infection and evolution assays?. <b>2015</b> , 362,	6
306	Identification of Thiotetronic Acid Antibiotic Biosynthetic Pathways by Target-directed Genome Mining. <b>2015</b> , 10, 2841-2849	173
305	Amelioration of the Fitness Costs of Antibiotic Resistance Due To Reduced Outer Membrane Permeability by Upregulation of Alternative Porins. <b>2015</b> , 32, 3252-63	29
304	Potential for adaptation overrides cost of resistance. <b>2015</b> , 10, 1415-31	11

303	What's Wrong With Factory Farming?. <b>2015</b> , 8, 246-254	32
302	Ultraviolet germicidal irradiation susceptibility of methicillin-resistant <i>Staphylococcus aureus</i> compared with methicillin-susceptible <i>S. aureus</i> . <b>2015</b> , 61, 871-5	1
301	Novel insight into antimicrobial resistance and sensitivity phenotypes associated to <i>qac</i> and <i>norA</i> genotypes in <i>Staphylococcus aureus</i> . <b>2015</b> , 170, 184-94	21
300	Fitness of <i>Salmonella</i> mutants resistant to antimicrobial peptides. <b>2015</b> , 70, 432-40	14
299	Antibacterial mechanism of lactic acid on physiological and morphological properties of <i>Salmonella</i> Enteritidis, <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> . <b>2015</b> , 47, 231-236	151
298	Lytic phages obscure the cost of antibiotic resistance in <i>Escherichia coli</i> . <b>2015</b> , 9, 809-20	14
297	The carriage of antibiotic resistance by enteric bacteria from imported tokay geckos ( <i>Gekko gecko</i> ) destined for the pet trade. <b>2015</b> , 505, 299-305	5
296	Impact of Resistance to Fluconazole on Virulence and Morphological Aspects of <i>Cryptococcus neoformans</i> and <i>Cryptococcus gattii</i> Isolates. <b>2016</b> , 7, 153	14
295	Relationship between Cefquinome PK/PD Parameters and Emergence of Resistance of <i>Staphylococcus aureus</i> in Rabbit Tissue-Cage Infection Model. <b>2016</b> , 7, 874	18
294	Fitness Cost of Fluoroquinolone Resistance in Clinical Isolates of Differs by Type III Secretion Genotype. <b>2016</b> , 7, 1591	21
293	Impact of amoxicillin therapy on resistance selection in patients with community-acquired lower respiratory tract infections: a randomized, placebo-controlled study. <b>2016</b> , 71, 3258-3267	21
292	Reduced Virulence of Azoxystrobin-Resistant <i>Zymoseptoria tritici</i> Populations in Greenhouse Assays. <b>2016</b> , 106, 884-9	8
291	Inhibitory interactions promote frequent bistability among competing bacteria. <b>2016</b> , 7, 11274	52
290	Enhanced Survival of Rifampin- and Streptomycin-Resistant <i>Escherichia coli</i> Inside Macrophages. <b>2016</b> , 60, 4324-32	12
289	Biological and Epidemiological Features of Antibiotic-Resistant <i>Streptococcus pneumoniae</i> in Pre- and Post-Conjugate Vaccine Eras: a United States Perspective. <b>2016</b> , 29, 525-52	159
288	Mathematical modelling of bacterial resistance to multiple antibiotics and immune system response. <b>2016</b> , 5, 408	14
287	Discharge of swine wastes risks water quality and food safety: Antibiotics and antibiotic resistance genes from swine sources to the receiving environments. <b>2016</b> , 92-93, 210-9	195
286	Antibiotic resistance mechanisms in <i>M. tuberculosis</i> : an update. <b>2016</b> , 90, 1585-604	105

285	Nonmutational compensation of the fitness cost of antibiotic resistance in mycobacteria by overexpression of tlyA rRNA methylase. <b>2016</b> , 22, 1836-1843	28
284	Generation of a Stable Plasmid for and Studies of Staphylococcus Species. <b>2016</b> , 82, 6859-6869	13
283	The genomic basis of adaptation to the fitness cost of rifampicin resistance in <i>Pseudomonas aeruginosa</i> . <b>2016</b> , 283,	15
282	Molecular characterization and analysis of high-level multidrug-resistance of <i>Shigella flexneri</i> serotype 4s strains from China. <b>2016</b> , 6, 29124	16
281	Germ-free sea bass <i>Dicentrarchus labrax</i> larval model: a valuable tool in the study of host-microbe interactions. <b>2016</b> , 117, 177-85	15
280	Bacterial Cytological Profiling (BCP) as a Rapid and Accurate Antimicrobial Susceptibility Testing Method for <i>Staphylococcus aureus</i> . <b>2016</b> , 4, 95-103	37
279	Iron availability shapes the evolution of bacteriocin resistance in <i>Pseudomonas aeruginosa</i> . <b>2016</b> , 10, 2060-6	18
278	SEVA Linkers: A Versatile and Automatable DNA Backbone Exchange Standard for Synthetic Biology. <b>2016</b> , 5, 1177-1181	15
277	Mathematical modelling of antimicrobial resistance in agricultural waste highlights importance of gene transfer rate. <b>2016</b> , 92, fiw040	31
276	Clinical implications of molecular drug resistance testing for <i>Mycobacterium tuberculosis</i> : a TBNET/RESIST-TB consensus statement. <b>2016</b> , 20, 24-42	101
275	Can treatment increase the epidemic size?. <b>2016</b> , 72, 343-61	14
274	The evolution of no-cost resistance at sub-MIC concentrations of streptomycin in <i>Streptomyces coelicolor</i> . <b>2017</b> , 11, 1168-1178	34
273	Changing mutational and adaptive landscapes and the genesis of cancer. <b>2017</b> , 1867, 84-94	16
272	Soft selective sweeps in fungicide resistance evolution: recurrent mutations without fitness costs in grapevine downy mildew. <b>2017</b> , 26, 1936-1951	32
271	Regulation of antimicrobial resistance by extracytoplasmic function (ECF) sigma factors. <b>2017</b> , 19, 238-248	16
270	Mathematical epidemiology: Past, present, and future. <b>2017</b> , 2, 113-127	152
269	Competitive Fitness of Fluconazole-Resistant Clinical <i>Candida albicans</i> Strains. <b>2017</b> , 61,	20
268	De Novo Emergence of Genetically Resistant Mutants of <i>Mycobacterium tuberculosis</i> from the Persistence Phase Cells Formed against Antituberculosis Drugs In Vitro. <b>2017</b> , 61,	53

267	Antibiotic-Independent Adaptive Effects of Antibiotic Resistance Mutations. <b>2017</b> , 33, 521-528	30
266	The prevalence of antibiotic-resistant bacteria (ARB) in waters of the Lower Ballona Creek Watershed, Los Angeles County, California. <b>2017</b> , 189, 261	2
265	Universal attenuators and their interactions with feedback loops in gene regulatory networks. <b>2017</b> , 45, 7078-7093	1
264	The epidemiology, pathogenesis, transmission, diagnosis, and management of multidrug-resistant, extensively drug-resistant, and incurable tuberculosis. <b>2017</b> ,	313
263	Genomic sequencing of <i>Neisseria gonorrhoeae</i> to respond to the urgent threat of antimicrobial-resistant gonorrhoea. <b>2017</b> , 75,	12
262	Pervasive, yet idiosyncratic, epistatic pleiotropy during adaptation in a behaviourally complex microbe. <b>2017</b> , 30, 257-269	3
261	Impact of High-Level Daptomycin Resistance in the <i>Streptococcus mitis</i> Group on Virulence and Survivability during Daptomycin Treatment in Experimental Infective Endocarditis. <b>2017</b> , 61,	6
260	Variable competitive effects of fungicide resistance in field experiments with a plant pathogenic fungus. <b>2017</b> , 27, 1305-1316	5
259	Antibiotic stress selects against cooperation in the pathogenic bacterium <i>Pseudomonas aeruginosa</i> . <b>2017</b> , 114, 546-551	14
258	Modulation of Global Transcriptional Regulatory Networks as a Strategy for Increasing Kanamycin Resistance of the Translational Elongation Factor-G Mutants in. <b>2017</b> , 7, 3955-3966	5
257	Fitness-compensatory mutations facilitate the spread of drug-resistant F15/LAM4/KZN and F28 <i>Mycobacterium tuberculosis</i> strains in KwaZulu-Natal, South Africa. <b>2017</b> , 96, 599-612	3
256	Tandem Amplification of the Staphylococcal Cassette Chromosome Element Can Drive High-Level Methicillin Resistance in Methicillin-Resistant <i>Staphylococcus aureus</i> . <b>2017</b> , 61,	13
255	Antimicrobial activities of the <i>Streptomyces ceolicolor</i> strain AOB KF977550 isolated from a tropical estuaryPeer review under responsibility of Taibah University.View all notes. <b>2017</b> , 11, 836-841	4
254	Prediction of antibiotic resistance: time for a new preclinical paradigm?. <b>2017</b> , 15, 689-696	145
253	High binding affinity of repressor IolR avoids costs of untimely induction of myo-inositol utilization by <i>Salmonella Typhimurium</i> . <b>2017</b> , 7, 44362	7
252	Does the Cost of Adaptation to Extremely Stressful Environments Diminish Over Time? A Literature Synthesis on How Plants Adapt to Heavy Metals and Pesticides. <b>2017</b> , 44, 411-426	9
251	Balancing <i>mcr-1</i> expression and bacterial survival is a delicate equilibrium between essential cellular defence mechanisms. <b>2017</b> , 8, 2054	91
250	Persistence and reversal of plasmid-mediated antibiotic resistance. <b>2017</b> , 8, 1689	139

249	When Pathogens and Environmental Organisms Meet. <b>2017</b> , 15-33	0
248	The spectrum of mutations in genes associated with resistance to rifampicin, isoniazid, and fluoroquinolones in the clinical strains of <i>M. tuberculosis</i> reflects the transmissibility of mutant clones. <b>2017</b> , 51, 526-532	5
247	Emerging patterns of plasmid-host coevolution that stabilize antibiotic resistance. <b>2017</b> , 7, 4853	37
246	Evolutionary Trajectories to Antibiotic Resistance. <b>2017</b> , 71, 579-596	93
245	Evaluating Polymyxin B-Based Combinations against Carbapenem-Resistant <i>Escherichia coli</i> in Time-Kill Studies and in a Hollow-Fiber Infection Model. <b>2017</b> , 61,	8
244	Molecular Evolution of <i>Mycobacteria</i> . <b>2017</b> , 393-416	3
243	Antibiotic-resistant bacteria in the guts of insects feeding on plants: prospects for discovering plant-derived antibiotics. <b>2017</b> , 17, 223	16
242	Fitness costs associated with the acquisition of antibiotic resistance. <b>2017</b> , 61, 37-48	34
241	(C) Gene Transfer between Strains Occurs by Homologous Recombination after Co-infection: Implications for Spread of Tetracycline-Resistance among. <b>2017</b> , 8, 156	13
240	Gnotobiotic Fish as Models to Study Host-Microbe Interactions. <b>2017</b> , 369-383	3
239	ESBL-producing $\beta$ and Its Rapid Rise among Healthy People. <b>2017</b> , 5, 122-150	21
238	Mathematical Modeling of Tuberculosis Transmission Dynamics. <b>2017</b> , 227-243	2
237	Diversity and evolution of drug resistance mechanisms in. <b>2017</b> , 10, 333-342	18
236	Dynamics of Drug Resistance: Optimal Control of an Infectious Disease. <b>2017</b> ,	1
235	Vaccination can drive an increase in frequencies of antibiotic resistance among nonvaccine serotypes of. <b>2018</b> , 115, 3102-3107	22
234	Pacing across the membrane: the novel PACE family of efflux pumps is widespread in Gram-negative pathogens. <b>2018</b> , 169, 450-454	50
233	Fitness cost of <i>mcr-1</i> -mediated polymyxin resistance in <i>Klebsiella pneumoniae</i> . <b>2018</b> , 73, 1604-1610	37
232	Source of the Fitness Defect in Rifamycin-Resistant <i>Mycobacterium tuberculosis</i> RNA Polymerase and the Mechanism of Compensation by Mutations in the $\beta$ Subunit. <b>2018</b> , 62,	16

231	Effect of pyrolysis on the removal of antibiotic resistance genes and class I integrons from municipal wastewater biosolids. <b>2018</b> , 4, 1807-1818	19
230	Evolution of mutualism from parasitism in experimental virus populations. <b>2018</b> , 72, 707-712	23
229	A 10-Year Comparative Analysis Shows that Increasing Prevalence of Rifampin-Resistant <i>Mycobacterium tuberculosis</i> in China Is Associated with the Transmission of Strains Harboring Compensatory Mutations. <b>2018</b> , 62,	15
228	Genomic Investigation of a Putative Endoscope-Associated Carbapenem-Resistant <i>Enterobacter cloacae</i> Outbreak Reveals a Wide Diversity of Circulating Strains and Resistance Mutations. <b>2018</b> , 66, 460-463	8
227	Rifampicin resistance in <i>Staphylococcus epidermidis</i> : molecular characterisation and fitness cost of <i>rpoB</i> mutations. <b>2018</b> , 51, 670-677	14
226	Methods for Measuring the Production of Quorum Sensing Signal Molecules. <b>2018</b> , 1736, 1-15	1
225	Clinical epidemiology of carbapenem-resistant gram-negative sepsis among hospitalized patients: Shifting burden of disease?. <b>2018</b> , 46, 1092-1096	8
224	Stress Introduction Rate Alters the Benefit of AcrAB-TolC Efflux Pumps. <b>2018</b> , 200,	19
223	Identification of new antibacterial targets in RNA polymerase of <i>Mycobacterium tuberculosis</i> by detecting positive selection sites. <b>2018</b> , 73, 25-30	4
222	Dissemination and genetic analysis of the stealthy <i>vanB</i> gene clusters of <i>Enterococcus faecium</i> clinical isolates in Japan. <b>2018</b> , 18, 213	10
221	Transcriptional and Functional Analysis of <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> Exposure to Tetracycline. <b>2018</b> , 84,	12
220	Impact of plasmid interactions with the chromosome and other plasmids on the spread of antibiotic resistance. <b>2018</b> , 99, 82-88	25
219	Substantial improvement of toyocamycin production in <i>Streptomyces diastatochromogenes</i> by cumulative drug-resistance mutations. <b>2018</b> , 13, e0203006	9
218	Effect of TDA-producing <i>Phaeobacter inhibens</i> on the fish pathogen <i>Vibrio anguillarum</i> in non-axenic algae and copepod systems. <b>2018</b> , 11, 1070-1079	11
217	Predictable Phenotypes of Antibiotic Resistance Mutations. <b>2018</b> , 9,	41
216	Construction and characterization of the GFAT gene as a novel selection marker in <i>Aspergillus nidulans</i> . <b>2018</b> , 102, 7951-7962	2
215	Capitalizing on competition: An evolutionary model of competitive release in metastatic castration resistant prostate cancer treatment. <b>2018</b> , 455, 249-260	28
214	Evolution of bacteria specialization along an antibiotic dose gradient. <b>2018</b> , 2, 221-232	9

213	Parallel Evolution of High-Level Aminoglycoside Resistance in Under Low and High Mutation Supply Rates. <b>2018</b> , 9, 427	12
212	Carbapenem resistance exposures via wastewaters across New Delhi. <b>2018</b> , 119, 302-308	23
211	Development of macrolide resistance in <i>Bordetella bronchiseptica</i> is associated with the loss of virulence. <b>2018</b> , 73, 2797-2805	7
210	In silico analysis of antibiotic-induced <i>Clostridium difficile</i> infection: Remediation techniques and biological adaptations. <b>2018</b> , 14, e1006001	6
209	Antibiotic Pollution in the Environment: From Microbial Ecology to Public Policy. <b>2019</b> , 7,	271
208	The biology of IncI2 plasmids shown by whole-plasmid multi-locus sequence typing. <b>2019</b> , 106, 102444	5
207	Mathematical Models in Epidemiology. <b>2019</b> ,	143
206	The mutational landscape of quinolone resistance in <i>Escherichia coli</i> . <b>2019</b> , 14, e0224650	13
205	Pre-detection history of extensively drug-resistant tuberculosis in KwaZulu-Natal, South Africa. <b>2019</b> , 116, 23284-23291	12
204	Transmissibility and potential for disease progression of drug resistant : prospective cohort study. <b>2019</b> , 367, l5894	21
203	Vancomycin resistance plasmids affect persistence of <i>Enterococcus faecium</i> in water. <b>2019</b> , 166, 115069	2
202	Plasmid Distribution among from Livestock and Associated Wastewater: Unraveling Factors That Shape the Presence of Genes Conferring Third-Generation Cephalosporin Resistance. <b>2019</b> , 53, 11666-11674	5
201	<i>Neisseria gonorrhoeae</i> 23S rRNA A2059G mutation is the only determinant necessary for high-level azithromycin resistance and improves in vivo biological fitness. <b>2019</b> , 74, 407-415	16
200	Free Energy-Based Methods to Understand Drug Resistance Mutations. <b>2019</b> , 1-24	1
199	Nonlinear adaptive control of competitive release and chemotherapeutic resistance. <b>2019</b> , 99, 022404	11
198	. <b>2019</b> ,	0
197	Rifampin resistance and its fitness cost in <i>Riemerella anatipestifer</i> . <b>2019</b> , 19, 107	5
196	Mortality causes universal changes in microbial community composition. <b>2019</b> , 10, 2120	29

195	Dynamics of Drug Resistance: Optimal Control of an Infectious Disease. <b>2019</b> , 67, 599-904	6
194	Targeted antibiotic discovery through biosynthesis-associated resistance determinants: target directed genome mining. <b>2019</b> , 45, 255-277	10
193	Preface. <b>2019</b> , ix-x	
192	The Diverse and Ubiquitous Nature of Pathogens. <b>2019</b> , 1-28	
191	Environment as a Determinant of Pathogen Incidence, Abundance and Evolution. <b>2019</b> , 29-47	1
190	Genetics of Host Plant Resistance and Pathogen Infectivity and Aggressiveness. <b>2019</b> , 48-90	
189	Sources and Patterns of Variation in Plant Pathogens. <b>2019</b> , 91-122	
188	Demographic and Genetic Processes in Host and Pathogen Populations. <b>2019</b> , 123-167	
187	Coevolutionary Dynamics in a Metapopulation Context. <b>2019</b> , 168-218	1
186	Coevolution and Host and Pathogen Life-Histories. <b>2019</b> , 219-242	1
185	Future Developments. <b>2019</b> , 293-300	
184	Glossary. <b>2019</b> , 301-305	
183	References. <b>2019</b> , 306-378	
182	Index. <b>2019</b> , 379-384	
181	References. <b>2019</b> , 343-443	
180	Carbon Cycle Implications of Soil Microbial Interactions. <b>2019</b> , 1-29	
179	Adaptation of the toxic freshwater cyanobacterium <i>Microcystis aeruginosa</i> to salinity is achieved by the selection of spontaneous mutants. <b>2019</b> , 67, 192-201	9
178	Spatial structure facilitates the accumulation and persistence of antibiotic-resistant mutants in biofilms. <b>2019</b> , 12, 498-507	10

177	Host adaptation and convergent evolution increases antibiotic resistance without loss of virulence in a major human pathogen. <b>2019</b> , 15, e1007218	25
176	Effect of Pathogens on Plant Community Dynamics. <b>2019</b> , 243-292	
175	Environmental structure drives resistance to phages and antibiotics during phage therapy and to invading lysogens during colonisation. <b>2019</b> , 9, 3149	19
174	Transmission in the Origins of Bacterial Diversity, From Ecotypes to Phyla. <b>2019</b> , 311-343	2
173	Mathematical modelling for antibiotic resistance control policy: do we know enough?. <b>2019</b> , 19, 1011	21
172	Antibiotics as both friends and foes of the human gut microbiome: The microbial community approach. <b>2019</b> , 80, 86-97	31
171	Efficiently activated $\epsilon$ -poly-L-lysine production by multiple antibiotic-resistance mutations and acidic pH shock optimization in <i>Streptomyces albulus</i> . <b>2019</b> , 8, e00728	11
170	Transmission in the Origins of Bacterial Diversity, From Ecotypes to Phyla. <b>2017</b> , 5,	22
169	New strategy for identifying potential natural HIV-1 non-nucleoside reverse transcriptase inhibitors against drug-resistance: an study. <b>2020</b> , 38, 3327-3341	8
168	Co-selection and stability of bacterial antibiotic resistance by arsenic pollution accidents in source water. <b>2020</b> , 135, 105351	20
167	Host-microbiome coevolution can promote cooperation in a rock-paper-scissors dynamics. <b>2020</b> , 287, 20192754	15
166	Analysis of fitness costs associated with metronidazole and amoxicillin resistance in <i>Helicobacter pylori</i> . <b>2020</b> , 25, e12724	2
165	Evolution of Antibiotic Resistance in Surrogates of (LVS and ): Effects on Biofilm Formation and Fitness. <b>2020</b> , 11, 593542	5
164	Phenotypic Tracking of Antibiotic Resistance Spread via Transformation from Environment to Clinic by Reverse DO Single-Cell Raman Probing. <b>2020</b> , 92, 15472-15479	8
163	The Synergistic Effect of Mud Crab Antimicrobial Peptides Sphistin and Sph With Antibiotics Azithromycin and Rifampicin Enhances Bactericidal Activity Against. <b>2020</b> , 10, 572849	6
162	Superbugs, silver bullets, and new battlefields. <b>2020</b> , 81-106	1
161	Strong Environment-Genotype Interactions Determine the Fitness Costs of Antibiotic Resistance and in an Insect Model of Infection. <b>2020</b> , 64,	0
160	Past, present, and future of insect-borne diseases. <b>2020</b> , 1-38	

159	Livestock manure improved antibiotic resistance gene removal during co-treatment of domestic wastewater in an anaerobic membrane bioreactor. <b>2020</b> , 6, 2832-2842	2
158	Controlling evolutionary dynamics to optimize microbial bioremediation. <b>2020</b> , 13, 2460-2471	5
157	Inhibition of RNA Polymerase by Rifampicin and Rifamycin-Like Molecules. <b>2020</b> , 9,	5
156	Impact of the gonococcal FC428 allele 60.001 on ceftriaxone resistance and biological fitness. <b>2020</b> , 9, 1219-1229	3
155	Phenotypic delay in the evolution of bacterial antibiotic resistance: Mechanistic models and their implications. <b>2020</b> , 16, e1007930	2
154	Simulating the Influence of Conjugative-Plasmid Kinetic Values on the Multilevel Dynamics of Antimicrobial Resistance in a Membrane Computing Model. <b>2020</b> , 64,	5
153	Whole Genome Sequencing for the Analysis of Drug Resistant Strains of : A Systematic Review for Bedaquiline and Delamanid. <b>2020</b> , 9,	13
152	The limit of resistance to salinity in the freshwater cyanobacterium is modulated by the rate of salinity increase. <b>2020</b> , 10, 5045-5055	6
151	Engineering bacterial symbionts of nematodes improves their biocontrol potential to counter the western corn rootworm. <b>2020</b> , 38, 600-608	13
150	Impact of chemorophylaxis policy for AIDS-immunocompromised patients on emergence of bacterial resistance. <b>2020</b> , 15, e0225861	2
149	Increased prevalence of levofloxacin-resistant Mycobacterium tuberculosis in China is associated with specific mutations within the gyrA gene. <b>2020</b> , 92, 241-246	8
148	A landscape of genomic alterations at the root of a near-untreatable tuberculosis epidemic. <b>2020</b> , 18, 24	10
147	Bioinformatics approaches applied in pan-genomics and their challenges. <b>2020</b> , 43-64	
146	Optimal dynamic empirical therapy in a health care facility: A Monte-Carlo look-ahead method. <b>2021</b> , 198, 105767	0
145	Ecology and evolution of antimicrobial resistance in bacterial communities. <b>2021</b> , 15, 939-948	36
144	Accumulation of antibiotic resistance genes in full-scale drinking water biological activated carbon (BAC) filters during backwash cycles. <b>2021</b> , 190, 116744	11
143	Fitness benefits to bacteria of carrying prophages and prophage-encoded antibiotic-resistance genes peak in different environments. <b>2021</b> , 75, 515-528	19
142	Metabonomics reveals an alleviation of fitness cost in resistant E. coli competing against susceptible E. coli at sub-MIC doxycycline. <b>2021</b> , 405, 124215	6

141	Fitness cost of vancomycin-resistant <i>Enterococcus faecium</i> plasmids associated with hospital infection outbreaks.	0
140	Antibacterials. <b>2021</b> ,	
139	Using ecological coexistence theory to understand antibiotic resistance and microbial competition. <b>2021</b> , 5, 431-441	14
138	Role of synergy and antagonism in designing multidrug adaptive chemotherapy schedules. <b>2021</b> , 103, 032408	5
137	DNA Breaks-Mediated Fitness Cost Reveals RNase HI as a New Target for Selectively Eliminating Antibiotic-Resistant Bacteria. <b>2021</b> , 38, 3220-3234	4
136	Bacteroidales species are a reservoir of phase-variable antibiotic resistance genes in the human gut microbiome.	
135	The Acute Host-Response of Turkeys Colonized With. <b>2021</b> , 8, 613203	0
134	Prisons as ecological drivers of fitness-compensated multidrug-resistant <i>Mycobacterium tuberculosis</i> . <b>2021</b> , 27, 1171-1177	9
133	The Perfect Condition for the Rising of Superbugs: Person-to-Person Contact and Antibiotic Use Are the Key Factors Responsible for the Positive Correlation between Antibiotic Resistance Gene Diversity and Virulence Gene Diversity in Human Metagenomes. <b>2021</b> , 10,	4
132	Comprehensive review on mechanism of action, resistance and evolution of antimycobacterial drugs. <b>2021</b> , 274, 119301	7
131	Using the Tea Bag Index to determine how two human pharmaceuticals affect litter decomposition by aquatic microorganisms. <b>2021</b> , 30, 1272-1278	1
130	Wet-dry cycles protect surface-colonizing bacteria from major antibiotic classes. <b>2021</b> ,	1
129	Antimicrobial resistance in commensal <i>Escherichia coli</i> and <i>Enterococcus</i> spp. isolated from pigs subjected to different antimicrobial administration protocols. <b>2021</b> , 137, 174-185	3
128	Drug resistance, fitness and compensatory mutations in <i>Mycobacterium tuberculosis</i> . <b>2021</b> , 129, 102091	5
127	Nutrient limitation magnifies fitness costs of antimalarial drug resistance mutations.	
126	Prevalence of Antibiotic Resistance Genes in the Saigon River Impacted by Anthropogenic Activities. <b>2021</b> , 13, 2234	1
125	Expression Dysregulation as a Mediator of Fitness Costs in Antibiotic Resistance. <b>2021</b> , 65, e0050421	1
124	Theory of microbial coexistence in promoting soil-plant ecosystem health. <b>2021</b> , 57, 897-911	2

123	Characterization of Fitness Cost Caused by Tigecycline-Resistance Gene (X6) in Different Host Bacteria. <b>2021</b> , 10,	0
122	Fitness Cost of Antibiotic Resistance in : A Systematic Review. <b>2021</b> , 27, 1218-1231	3
121	Multiple driving factors contribute to the variations of typical antibiotic resistance genes in different parts of soil-lettuce system. <b>2021</b> , 225, 112815	2
120	Polypharmacology as an Emerging Trend in Antibacterial Discovery. 167-202	4
119	A Review of Animal Models Used for Antibiotic Evaluation. <b>2012</b> , 1009-1033	1
118	Challenges, Opportunities and Theoretical Epidemiology. <b>2019</b> , 507-531	7
117	Methods to determine antibiotic resistance gene silencing. <b>2010</b> , 642, 29-44	7
116	Antimicrobial textiles. <b>2012</b> , 135-52	19
115	Horizontal Gene Transfer in Planktonic and Biofilm Modes. <b>2014</b> , 67-95	3
114	Evolutionary Dynamics of Plant-Pathogen Interactions. <b>2019</b> ,	15
113	Development of <i>Saccharomyces cerevisiae</i> as a model pathogen. A system for the genetic identification of gene products required for survival in the mammalian host environment. <b>2001</b> , 159, 499-513	64
112	Mode of selection and experimental evolution of antifungal drug resistance in <i>Saccharomyces cerevisiae</i> . <b>2003</b> , 163, 1287-98	117
111	The evolution of no-cost resistance at sub-MIC concentrations of streptomycin in <i>Streptomyces coelicolor</i> .	1
110	FITNESS BENEFITS TO BACTERIA OF CARRYING PROPHAGES AND PROPHAGE-ENCODED ANTIBIOTIC-RESISTANCE GENES PEAK IN DIFFERENT ENVIRONMENTS.	5
109	The perfect condition for the rising of superbugs: person-to-person contagion and antibiotic use are the key factors responsible for the positive correlation between antibiotic resistance gene diversity and virulence gene diversity in human metagenomes.	1
108	Inherent protection of bacteria from beta-lactam antibiotics by wet-dry cycles with microscopic surface wetness.	1
107	Reversion is most likely under high mutation supply, when compensatory mutations don't fully restore fitness costs.	1
106	Cost of resistance: an unreasonably expensive concept.	3

105	Resistance at No Cost: The Transmissibility and Potential for Disease Progression of Drug-Resistant <i>M. Tuberculosis</i> .	3
104	Using the Tea Bag Index to determine how two human pharmaceuticals affect litter decomposition by aquatic microorganisms.	2
103	Incipient resistance to an effective pesticide results from genetic adaptation and the canalization of gene expression. <b>2021</b> , 14, 847-859	8
102	Overview of Dissemination Mechanisms of Genes Coding for Resistance to Antibiotics. 265-270	1
101	Where's the Beef? Looking for Information in Bacterial Chromosomes. 1-18	2
100	Metabolic Compensation of Fitness Costs Is a General Outcome for Antibiotic-Resistant Mutants Overexpressing Efflux Pumps. <b>2017</b> , 8,	37
99	Adaptations Accumulated under Prolonged Resource Exhaustion Are Highly Transient. <b>2020</b> , 5,	3
98	single-copy plasmids for auxotrophy compensation, multiple marker selection, and for designing metabolically cooperating communities. <b>2016</b> , 5, 2351	17
97	Stress-induced mutagenesis: Stress diversity facilitates the persistence of mutator genes. <b>2017</b> , 13, e1005609	12
96	Modeling antibiotic treatment in hospitals: A systematic approach shows benefits of combination therapy over cycling, mixing, and mono-drug therapies. <b>2017</b> , 13, e1005745	29
95	Metabolic plasticity in synthetic lethal mutants: Viability at higher cost. <b>2018</b> , 14, e1005949	1
94	Predominance of positive epistasis among drug resistance-associated mutations in HIV-1 protease. <b>2020</b> , 16, e1009009	9
93	Estimating fitness by competition assays between drug susceptible and resistant <i>Mycobacterium tuberculosis</i> of predominant lineages in Mumbai, India. <b>2012</b> , 7, e33507	20
92	When does overuse of antibiotics become a tragedy of the commons?. <b>2012</b> , 7, e46505	47
91	Targeting imperfect vaccines against drug-resistance determinants: a strategy for countering the rise of drug resistance. <b>2013</b> , 8, e68940	28
90	Can the use of older-generation beta-lactam antibiotics in livestock production over-select for beta-lactamases of greatest consequence for human medicine? An in vitro experimental model. <b>2020</b> , 15, e0242195	3
89	Colistin Resistance Gene Mediates Cell Permeability and Resistance to Hydrophobic Antibiotics. <b>2019</b> , 10, 3015	15
88	Cost of resistance: an unreasonably expensive concept. 3, 51-70	14

87	Survey of the Sensitivity of <i>Vibrio</i> spp., Isolated from <i>Litopenaeus vannamei</i> to Different Antibiotics. <b>2014</b> , 9, 487-495	1
86	Isolation, Identification and Determination of Antibiotic Susceptibility of <i>Vibrio parahaemolyticus</i> from Shrimp at Khulna Region of Bangladesh. <b>2007</b> , 2, 216-227	13
85	Modeling the effects of introducing a new antibiotic in a hospital setting: A case study. <b>2012</b> , 9, 601-25	6
84	Preclinical screening of <i>phyllanthus amarus</i> ethanolic extract for its analgesic and antimicrobial activity. <b>2014</b> , 7, 378-84	8
83	Competitive fitness of. <b>2019</b> , 8, 287-291	7
82	Combinatorial genetic technology for the development of new anti-infectives. <b>2004</b> , 128, 1351-9	15
81	Compensatory evolution drives multidrug-resistant tuberculosis in Central Asia. <b>2018</b> , 7,	60
80	Rapid decline of bacterial drug-resistance in an antibiotic-free environment through phenotypic reversion. <b>2019</b> , 8,	19
79	Antimicrobial Resistance in Equine Reproduction. <b>2021</b> , 11,	4
78	Estimating the Rates of Acquisition and loss of Resistance of to Antimicrobial Drugs in Pre-Weaned Dairy Calves. <b>2021</b> , 9,	
77	Characterization of a and CRISPR-Cas System Co-harboring Plasmid in a Carbapenemase-Producing High-Risk ST11 Strain. <b>2021</b> , 12, 762947	0
76	A rapidly reversible mutation generates subclonal genetic diversity and unstable drug resistance. <b>2021</b> , 118,	0
75	Global Aspects of Antibiotic Resistance. <b>2003</b> , 1-8	
74	Biological Effect of Metronidazole Resistance in <i>Helicobacter Pylori</i> . <b>2005</b> , 15, 955-960	
73	The Evolution of Foodborne Pathogens. <b>2011</b> , 455-487	
72	ENVIRONMENTAL STRESS AND MUTAGENESIS IN ENTERIC AND NON-ENTERIC BACTERIA. <b>2012</b> , 10, 3-13	
71	Modulation of global transcriptional regulatory networks as a strategy for increasing kanamycin resistance of EF-G mutants.	
70	Universal attenuators and their interactions with feedback loops in gene regulatory networks.	

- 69 Emerging patterns of plasmid-host coevolution that stabilize antibiotic resistance.
- 68 Quantifying the impact of a periodic presence of antimicrobial on resistance evolution in a homogeneous microbial population of fixed size.
- 67 Modelling phage-bacteria interactions driving predation and horizontal gene transfer. 0
- 66 Compensatory evolution drives multidrug-resistant tuberculosis in Central Asia.
- 65 Host adaptation and convergent evolution increases antibiotic resistance without loss of virulence in a major human pathogen.
- 64 Mortality causes universal changes in microbial community composition.
- 63 Optimal dynamic empirical therapy in a health care facility: an artificial intelligence approach. 0
- 62 Host-microbiome coevolution promotes cooperation in a rock-paper-scissor dynamic. 0
- 61 Controlling evolutionary dynamics to optimize microbial bioremediation.
- 60 Antibiotic Resistance Increases Evolvability and Maximizes Opportunities Across Fitness Landscapes. 1
- 59 DNA breaks-mediated cost reveals RNase HI as a new target for selectively eliminating antibiotic resistance.
- 58 Predominance of positive epistasis among drug resistance-associated mutations in HIV-1 protease.
- 57 Survival of the unfittest: Metabolic trade-offs expose unforeseen benefits of plasmid carriage.
- 56 Phenotypic delay in the evolution of bacterial antibiotic resistance: mechanistic models and their implications. 0
- 55 Incipient resistance to an effective pesticide results from genetic adaptation and the canalization of gene expression.
- 54 Turnover modulates the need for a cost of resistance in adaptive therapy. 6
- 53 Adaptations accumulated under prolonged resource exhaustion are highly transient.
- 52 Antibiotics in microbial communities: an ecological frame of resistance.

51	Simulating the Influence of Conjugative Plasmids Kinetic Values on the Multilevel Dynamics of Antimicrobial Resistance in a Membrane Computing Model.	
50	Switching Logistic Maps to Design Cycling Approaches Against Antimicrobial Resistance.	1
49	Rapidly reversible mutations generate subclonal genetic diversity and reversible drug resistance.	
48	Controlling Antibiotic Resistance: Strategies Based on the Mutant Selection Window. <b>2004</b> , 295-331	
47	Evaluation of the Synergistic Effect of Tomatidine with Several Antibiotics against Standard and Clinical Isolates of , , and. <b>2017</b> , 16, 290-296	5
46	Comparison of the effects of versus imipenem on infected burn wound healing. <b>2020</b> , 34, 94	1
45	Advantages of laboratory natural selection in the applied sciences. <b>2021</b> , 35, 5	0
44	The Role of Antibiotic Resistance Genes in the Fitness Cost of Multiresistance Plasmids.. <b>2022</b> , e0355221	0
43	(T)-Mediated Macrolide-Lincosamide Resistance in Streptococcus suis.. <b>2022</b> , e0165721	2
42	Bacteroidales species in the human gut are a reservoir of antibiotic resistance genes regulated by invertible promoters.. <b>2022</b> , 8, 1	1
41	Emergence and Mechanism of Resistance of Tulathromycin Against in a PK/PD Model and the Fitness Costs of 23S rRNA Mutants.. <b>2022</b> , 9, 801800	0
40	Comparison of Different Methods for Drug Susceptibility Testing of Mycobacterium tuberculosis to Rifampicin. <b>2022</b> , 100, 41-48	
39	Rapid decline of ceftazidime resistance in antibiotic-free and sub-lethal environments is contingent on genetic background.. <b>2022</b> ,	2
38	Gut Commensal , a High-Risk Reservoir of Transferable Plasmid-Mediated Antimicrobial Resistance Traits.. <b>2022</b> , 15, 1077-1091	1
37	Efflux-linked Accelerated Evolution of Antibiotic Resistance at a Population Edge.	
36	Revisiting Antibiotic Resistance: Mechanistic Foundations to Evolutionary Outlook.. <b>2021</b> , 11,	6
35	Pneumococcal Evasion of Antibiotics via Metabolic Adaptation During Infection.	
34	DataSheet1.docx. <b>2018</b> ,	

- 33 Data\_Sheet\_1.docx. **2020**,
- 32 Image\_1.tif. **2020**,
- 31 Table\_1.docx. **2020**,
- 30 Table\_2.docx. **2020**,
- 29 Nutrient Limitation Magnifies Fitness Costs of Antimalarial Drug Resistance Mutations.. **2022**, e0152921 ○
- 28 Efflux-Linked Accelerated Evolution of Antibiotic Resistance at a Population Edge.
- 27 Stochastic competitive release and adaptive chemotherapy.
- 26 Antibiotic Minimal Selective Concentrations and Fitness Costs during Biofilm and Planktonic Growth. ○
- 25 Evolution of antibiotic resistance impacts optimal temperature and growth rate in Escherichia coli and Staphylococcus epidermidis.
- 24 Reversion is most likely under high mutation supply when compensatory mutations do not fully restore fitness costs. 1
- 23 Effect of Different Tolerable Levels of Constitutive mcr-1 Expression on Escherichia coli. 1
- 22 Design, synthesis, molecular docking and antimicrobial activities of novel triazole-ferulic acid ester hybrid carbohydrates. **2022**, 1269, 133832 ○
- 21 Combination of virulence and antibiotic resistance: a successful bacterial strategy to survive under hostile environments. **2023**, 101-117 ○
- 20 The red thread between methylation and mutation in bacterial antibiotic resistance: How third-generation sequencing can help to unravel this relationship. 13, ○
- 19 Breeding of High Daptomycin-Producing Strain by Streptomycin Resistance Superposition. **2022**, 71, 463-471 ○
- 18 The evolving biology of Mycobacterium tuberculosis drug resistance. 12, 1
- 17 Temporary Survival Increasing the Diversity of Culturable Heterotrophic Bacteria in the Newly Exposed Moraine at a Glacier Snout. **2022**, 11, 1555 ○
- 16 Regulatory fine-tuning and horizontal gene transfer stabilize mobile colistin resistance. ○

- 15 Efflux-linked accelerated evolution of antibiotic resistance at a population edge. **2022**, 82, 4368-4385.e6 ○
- 14 Kaempferol: Antimicrobial Properties, Sources, Clinical, and Traditional Applications. **2022**, 23, 15054 2
- 13 Spontaneous Mutational Patterns and Novel Mutations for Delamanid Resistance in *Mycobacterium tuberculosis*. **2022**, 66, ○
- 12 Estimating the fitness cost and benefit of antimicrobial resistance from pathogen genomic data. ○
- 11 Interspecies recombination, not de novo mutation, maintains virulence after  $\beta$ -lactam resistance acquisition in *Streptococcus pneumoniae*. **2022**, 41, 111835 ○
- 10 Identifying Mutational Hotspots using Differences in Atomic Fluctuations combined with Positional Variability. ○
- 9 The culmination of multidrug-resistant efflux pumps vs. meager antibiotic arsenal era: Urgent need for an improved new generation of EPs. 14, ○
- 8 Compensatory adaptation does not fully alleviate the costs associated with rifampicin resistance and occurs predominantly through off-target mutations. ○
- 7 In vitro Susceptibility of Nontuberculous Mycobacteria in China. ○
- 6 A case for the Competitive exclusion Tolerance rule as a general cause of species turnover along environmental gradients. ○
- 5 Analyzing genomic alterations involved in fluoroquinolone-resistant development in *Staphylococcus aureus*. ○
- 4 Interspecies interaction reduces selection for antibiotic resistance in *Escherichia coli*. **2023**, 6, ○
- 3 Greater Invasion and Persistence of mcr-1- Bearing Plasmids in *Escherichia coli* than in *Klebsiella pneumoniae*. **2023**, 11, ○
- 2 The relative transmission fitness of multidrug-resistant *Mycobacterium tuberculosis* in a drug resistance hotspot. **2023**, 14, ○
- 1 Intrahost evolution of the gut microbiota. ○