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Mechanisms of polymyxin resistance: acquired and intrinsic resistance in bacteria

DOI: 10.3389/fmicb.2014.00643
Frontiers in Microbiology, 2014, 5, 643.

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Version: 2024-04-24

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976	Capillary electrophoresis for fast detection of heterogeneous population in colistin-resistant Gram-negative bacteria. 2015 , 36, 2630-3		8
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974	Interaction of antibacterial compounds with RND e π x pumps in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 660	5.7	94
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971	Colistin and Fusidic Acid, a Novel Potent Synergistic Combination for Treatment of Multidrug-Resistant <i>Acinetobacter baumannii</i> Infections. 2015 , 59, 4544-50		30
970	Defensive remodeling: How bacterial surface properties and biofilm formation promote resistance to antimicrobial peptides. 2015 , 1848, 3089-100		52
969	Rapid dissemination of colistin and carbapenem resistant <i>Acinetobacter baumannii</i> in Central Greece: mechanisms of resistance, molecular identification and epidemiological data. 2015 , 15, 559		66
968	The Widespread Multidrug-Resistant Serotype O12 <i>Pseudomonas aeruginosa</i> Clone Emerged through Concomitant Horizontal Transfer of Serotype Antigen and Antibiotic Resistance Gene Clusters. 2015 , 6, e01396-15		33
967	<i>Pseudomonas aeruginosa</i> high-level resistance to polymyxins and other antimicrobial peptides requires <i>cprA</i> , a gene that is disrupted in the PAO1 strain. 2015 , 59, 5377-87		17
966	Interruption of <i>mgrB</i> in the mediation of colistin resistance in <i>Klebsiella oxytoca</i> . 2015 , 46, 354-5		11
965	Prevalence and risk factors associated with colonization and infection of extensively drug-resistant <i>Pseudomonas aeruginosa</i> : a systematic review. 2015 , 13, 1159-70		55
964	Resistance mechanisms in Enterobacteriaceae. 2015 , 47, 276-84		36
963	Functional genomics to discover antibiotic resistance genes: The paradigm of resistance to colistin mediated by ethanolamine phosphotransferase in <i>Shewanella algae</i> MARS 14. 2015 , 46, 648-52		28
962	Permeability Barrier of Gram-Negative Cell Envelopes and Approaches To Bypass It. 2015 , 1, 512-522		291

961	Polymyxin B versus colistin: an update. 2015 , 13, 1481-97		46
960	Large Nosocomial Outbreak of Colistin-Resistant, Carbapenemase-Producing <i>Klebsiella pneumoniae</i> Traced to Clonal Expansion of an mgrB Deletion Mutant. 2015 , 53, 3341-4		92
959	A PmrB-Regulated Deacetylase Required for Lipid A Modification and Polymyxin Resistance in <i>Acinetobacter baumannii</i> . 2015 , 59, 7911-4		37
958	Bacterial danger sensing. 2015 , 427, 3744-53		37
957	Loss of LPS is involved in the virulence and resistance to colistin of colistin-resistant <i>Acinetobacter nosocomialis</i> mutants selected in vitro. 2015 , 70, 2981-6		20
956	The increasing threat of <i>Pseudomonas aeruginosa</i> high-risk clones. 2015 , 21-22, 41-59		320
955	In Vivo Adaptive Resistance to Colistin in <i>Escherichia coli</i> Isolates. 2015 , 61, 1628-9		5
954	Mechanisms of antimicrobial resistance in Gram-negative bacilli. 2015 , 5, 61		203
953	Polymyxin Susceptibility in <i>Pseudomonas aeruginosa</i> Linked to the MexXY-OprM Multidrug Efflux System. 2015 , 59, 7276-89		14
952	Multidrug-Resistant <i>Escherichia coli</i> in Bovine Animals, Europe. 2016 , 22, 1650-2		25
951	Colistin-Resistant mcr-1-Positive Pathogenic <i>Escherichia coli</i> in Swine, Japan, 2007-2014. 2016 , 22, 1315-7		36
950	Rapid Detection of Polymyxin Resistance in Enterobacteriaceae. 2016 , 22, 1038-43		118
949	Synergistic Antipseudomonal Effects of Synthetic Peptide AMP38 and Carbapenems. 2016 , 21,		38
948	The Effect of Colistin Resistance-Associated Mutations on the Fitness of. <i>Frontiers in Microbiology</i> , 2016 , 7, 1715	5-7	30
947	Colistin in Pig Production: Chemistry, Mechanism of Antibacterial Action, Microbial Resistance Emergence, and One Health Perspectives. <i>Frontiers in Microbiology</i> , 2016 , 7, 1789	5-7	115
946	Peptides from American alligator plasma are antimicrobial against multi-drug resistant bacterial pathogens including <i>Acinetobacter baumannii</i> . 2016 , 16, 189		16
945	Prevalence of mcr-1 in <i>E. coli</i> from Livestock and Food in Germany, 2010-2015. 2016 , 11, e0159863		99
944	mcr-1.2, a New mcr Variant Carried on a Transferable Plasmid from a Colistin-Resistant KPC Carbapenemase-Producing <i>Klebsiella pneumoniae</i> Strain of Sequence Type 512. 2016 , 60, 5612-5		128

943	Mass spectrometry methods for predicting antibiotic resistance. 2016 , 10, 964-981	27
942	Colistin and tigecycline resistance in carbapenemase-producing Gram-negative bacteria: emerging resistance mechanisms and detection methods. 2016 , 121, 601-17	70
941	Identification of EnvC and Its Cognate Amidases as Novel Determinants of Intrinsic Resistance to Cationic Antimicrobial Peptides. 2016 , 60, 2222-31	5
940	Complement resistance mechanisms of <i>Klebsiella pneumoniae</i> . 2016 , 221, 1102-9	53
939	The outer membrane porin OmpW of <i>Acinetobacter baumannii</i> is involved in iron uptake and colistin binding. 2016 , 590, 224-31	34
938	In vivo therapeutic efficacy and pharmacokinetics of colistin sulfate in an experimental model of enterotoxigenic <i>Escherichia coli</i> infection in weaned pigs. 2016 , 47, 58	18
937	Frequency of MCR-1-mediated colistin resistance among <i>Escherichia coli</i> clinical isolates obtained from patients in Canadian hospitals (CANWARD 2008-2015). 2016 , 4, E641-E645	20
936	Clonal spread of <i>mcr-1</i> in PMQR-carrying ST34 <i>Salmonella</i> isolates from animals in China. 2016 , 6, 38511	47
935	Émergence de la résistance à la colistine chez les entérobactéries : une brèche dans le dernier rempart contre la pan-résistance !. 2016 , 18, 139-159	3
934	Agents of Last Resort: Polymyxin Resistance. 2016 , 30, 391-414	90
933	Polymyxin Susceptibility Testing: a Cold Case Reopened. 2016 , 38, 69-77	12
932	Colistin and Polymyxin B Dosage Regimens against <i>Acinetobacter baumannii</i> : Differences in Activity and the Emergence of Resistance. 2016 , 60, 3921-33	51
931	Amino Acid Substitutions of CrrB Responsible for Resistance to Colistin through CrrC in <i>Klebsiella pneumoniae</i> . 2016 , 60, 3709-16	73
930	Detection of the plasmid-mediated <i>mcr-1</i> gene conferring colistin resistance in human and food isolates of <i>Salmonella enterica</i> and <i>Escherichia coli</i> in England and Wales. 2016 , 71, 2300-5	197
929	Synergy between Colistin and the Signal Peptidase Inhibitor MD3 Is Dependent on the Mechanism of Colistin Resistance in <i>Acinetobacter baumannii</i> . 2016 , 60, 4375-9	4
928	Bacterial Resistance to Host Defence Peptides. 2016 , 161-204	3
927	Resistance to colistin: what is the fate for this antibiotic in pig production?. 2016 , 48, 119-26	84
926	Genomic Characterization of Colistin Heteroresistance in <i>Klebsiella pneumoniae</i> during a Nosocomial Outbreak. 2016 , 60, 6837-6843	60

925	Kluyvera ascorbata Strain from Hospital Sewage Carrying the mcr-1 Colistin Resistance Gene. 2016 , 60, 7498-7501	39
924	Plasmid-mediated colistin resistance in Escherichia coli from the Arabian Peninsula. 2016 , 50, 85-90	62
923	Cathelicidin Antimicrobial Peptides with Reduced Activation of Toll-Like Receptor Signaling Have Potent Bactericidal Activity against Colistin-Resistant Bacteria. 2016 , 7,	14
922	Structure of the catalytic domain of the colistin resistance enzyme MCR-1. 2016 , 14, 81	70
921	Antibiotic resistance in Burkholderia species. 2016 , 28, 82-90	142
920	Characterisation of multidrug-resistant Shiga toxin-producing Escherichia coli cultured from pigs in China: co-occurrence of extended-spectrum β -lactamase- and mcr-1-encoding genes on plasmids. 2016 , 48, 445-8	36
919	Molecular mechanisms of polymyxin resistance: knowns and unknowns. 2016 , 48, 583-591	214
918	Polymyxin: Alternative Mechanisms of Action and Resistance. 2016 , 6,	166
917	Real-time quantitative PCR assay with Taqman(\square) probe for rapid detection of MCR-1 plasmid-mediated colistin resistance. 2016 , 13, 71-4	57
916	The European Union summary report on antimicrobial resistance in zoonotic and indicator bacteria from humans, animals and food in 2014. 2016 , 14, 4380	110
915	Effects of Colistin and Bacteriocins Combinations on the In Vitro Growth of Escherichia coli Strains from Swine Origin. 2016 , 8, 183-190	20
914	The dlt genes play a role in antimicrobial tolerance of Streptococcus mutans biofilms. 2016 , 48, 298-304	36
913	Unstable tandem gene amplification generates heteroresistance (variation in resistance within a population) to colistin in Salmonella enterica. 2016 , 102, 274-289	43
912	New antibiotics from Nature's chemical inventory. 2016 , 24, 6227-6252	50
911	Understanding resistance. 2016 , 42, 2080-2083	5
910	mgrB Mutations Mediating Polymyxin B Resistance in Klebsiella pneumoniae Isolates from Rectal Surveillance Swabs in Brazil. 2016 , 60, 6969-6972	49
909	Cluster-dependent colistin hetero-resistance in Enterobacter cloacae complex. 2016 , 71, 3058-3061	49
908	Specific surface glycan decorations enable antimicrobial peptide resistance in plant-beneficial pseudomonads with insect-pathogenic properties. 2016 , 18, 4265-4281	12

907	The evolution of antimicrobial peptide resistance in <i>Pseudomonas aeruginosa</i> is shaped by strong epistatic interactions. 2016 , 7, 13002	70
906	Epidemiology of infections caused by polymyxin-resistant pathogens. 2016 , 48, 614-621	82
905	Antimicrobial Resistance in Bacteria: An Overview of Mechanisms and Role of Drug Efflux Pumps. 2016 , 131-163	2
904	Bile signalling promotes chronic respiratory infections and antibiotic tolerance. 2016 , 6, 29768	22
903	Combination therapy with polymyxin B and netropsin against clinical isolates of multidrug-resistant <i>Acinetobacter baumannii</i> . 2016 , 6, 28168	18
902	Antimicrobial peptides trigger a division block in <i>Escherichia coli</i> through stimulation of a signalling system. 2016 , 7, 12340	34
901	The role of the temperature-regulated acyltransferase (PA3242) on growth, antibiotic resistance and virulence in <i>Pseudomonas aeruginosa</i> . 2016 , 101, 126-135	4
900	Pharmacokinetics/pharmacodynamics of colistin and polymyxin B: are we there yet?. 2016 , 48, 592-597	84
899	Isolation of <i>Enterobacter aerogenes</i> carrying blaTEM-1 and blaKPC-3 genes recovered from a hospital Intensive Care Unit. 2016 , 124, 516-21	7
898	Detection of Colistin Resistance Gene mcr-1 in Hypervirulent <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> Isolates from an Infant with Diarrhea in China. 2016 , 60, 5099-100	44
897	<i>Pseudomonas aeruginosa</i> : targeting cell-wall metabolism for new antibacterial discovery and development. 2016 , 8, 975-92	12
896	Decreasing level of resistance in invasive <i>Klebsiella pneumoniae</i> strains isolated in Marseille, January 2012-July 2015. 2016 , 5, 631	2
895	Rapid Detection of Polymyxin-Resistant Enterobacteriaceae from Blood Cultures. 2016 , 54, 2273-7	21
894	Serotype epidemiology and multidrug resistance patterns of <i>Salmonella enterica</i> infecting humans in Italy. 2016 , 8, 26	15
893	Transferable resistance to colistin: a new but old threat. 2016 , 71, 2066-70	229
892	Antibiotic and metal resistance in a ST395 <i>Pseudomonas aeruginosa</i> environmental isolate: A genomics approach. 2016 , 110, 75-81	18
891	Dissemination of the mcr-1 colistin resistance gene. 2016 , 16, 144-5	106
890	Treatment options for infections caused by carbapenem-resistant Enterobacteriaceae: can we apply "precision medicine" to antimicrobial chemotherapy?. 2016 , 17, 761-81	108

889	Plasmid-mediated colistin resistance: the final blow to colistin?. 2016 , 47, 4-5	16
888	Correlation of β -Lactamase Production and Colistin Resistance among Enterobacteriaceae Isolates from a Global Surveillance Program. 2015 , 60, 1385-92	59
887	Multiyear, Multinational Survey of the Incidence and Global Distribution of Metallo- β -Lactamase-Producing Enterobacteriaceae and <i>Pseudomonas aeruginosa</i> . 2016 , 60, 1067-78	121
886	Carbapenem- and Colistin-Resistant <i>Enterobacter cloacae</i> from Delta, Colorado, in 2015. 2016 , 60, 3141-4	23
885	Bacterial lipid membranes as promising targets to fight antimicrobial resistance, molecular foundations and illustration through the renewal of aminoglycoside antibiotics and emergence of amphiphilic aminoglycosides. 2016 , 7, 586-611	89
884	First Detection of the <i>mcr-1</i> Colistin Resistance Gene in <i>Escherichia coli</i> in Italy. 2016 , 60, 3257-8	60
883	Colistin-Resistant <i>Acinetobacter baumannii</i> Clinical Strains with Deficient Biofilm Formation. 2015 , 60, 1892-5	24
882	Acquisition of Broad-Spectrum Cephalosporin Resistance Leading to Colistin Resistance in <i>Klebsiella pneumoniae</i> . 2016 , 60, 3199-201	25
881	Effects of Efflux Pump Inhibitors on Colistin Resistance in Multidrug-Resistant Gram-Negative Bacteria. 2016 , 60, 3215-8	70
880	Genomic islands 1 and 2 play key roles in the evolution of extensively drug-resistant ST235 isolates of <i>Pseudomonas aeruginosa</i> . 2016 , 6,	33
879	Dissemination of the <i>mcr-1</i> colistin resistance gene. 2016 , 16, 147-9	134
878	Preservation of Acquired Colistin Resistance in Gram-Negative Bacteria. 2016 , 60, 609-12	30
877	Second Generation Modifiers of Colistin Resistance Show Enhanced Activity and Lower Inherent Toxicity. 2016 , 72, 3549-3553	15
876	Genome Analysis of the Carbapenem- and Colistin-Resistant <i>Escherichia coli</i> Isolate NRZ14408 Reveals Horizontal Gene Transfer Pathways towards Panresistance and Enhanced Virulence. 2017 , 61,	4
875	Insights into the Mechanistic Basis of Plasmid-Mediated Colistin Resistance from Crystal Structures of the Catalytic Domain of MCR-1. 2017 , 7, 39392	78
874	Challenges and opportunities for whole-genome sequencing-based surveillance of antibiotic resistance. 2017 , 1388, 108-120	57
873	Evaluation of a Loop-Mediated Isothermal Amplification-Based Assay for the Rapid Detection of Plasmid-Encoded Colistin Resistance Gene in Enterobacteriaceae Isolates. 2017 , 61,	15
872	Development of new polymyxin derivatives for multi-drug resistant Gram-negative infections. 2017 , 70, 386-394	50

871	Prevalence of <i>mcr-1</i> in <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> recovered from bloodstream infections in China: a multicentre longitudinal study. 2017 , 17, 400-410	139
870	A antibiotic resistance mechanism that subdues host defences and promotes virulence. 2017 , 9, 430-447	83
869	Polymyxins: Antibacterial Activity, Susceptibility Testing, and Resistance Mechanisms Encoded by Plasmids or Chromosomes. 2017 , 30, 557-596	692
868	Colistin Resistance Gene and Its Variant in <i>Escherichia coli</i> Isolates from Chickens in China. 2017 , 61,	59
867	Resistance to polymyxins in Gram-negative organisms. 2017 , 49, 526-535	203
866	Pentamidine sensitizes Gram-negative pathogens to antibiotics and overcomes acquired colistin resistance. 2017 , 2, 17028	155
865	The secondary resistome of multidrug-resistant <i>Klebsiella pneumoniae</i> . 2017 , 7, 42483	41
864	A novel mutation in <i>pmrB</i> mediates colistin resistance during therapy of <i>Acinetobacter baumannii</i> . 2017 , 49, 727-733	17
863	Deciphering Heteroresistance to Colistin in a <i>Klebsiella pneumoniae</i> Isolate from Marseille, France. 2017 , 61,	18
862	Dissemination of ϕ -Carrying Plasmids among Colistin-Resistant <i>Salmonella</i> Strains from Humans and Food-Producing Animals in Taiwan. 2017 , 61,	42
861	Deciphering MCR-2 Colistin Resistance. 2017 , 8,	53
860	Impact of Membrane Phospholipid Alterations in <i>Escherichia coli</i> on Cellular Function and Bacterial Stress Adaptation. 2017 , 199,	100
859	Molecular characteristic of <i>mcr-1</i> producing <i>Escherichia coli</i> in a Chinese university hospital. 2017 , 16, 32	21
858	Plasmid-mediated colistin resistance in <i>Escherichia coli</i> recovered from healthy poultry. 2017 , 49, 297-298	11
857	Recent advances and perspectives in the design and development of polymyxins. 2017 , 34, 886-908	78
856	Rapid and Consistent Evolution of Colistin Resistance in Extensively Drug-Resistant <i>Pseudomonas aeruginosa</i> during Morbidostat Culture. 2017 , 61,	34
855	Topical Antimicrobial Treatments Can Elicit Shifts to Resident Skin Bacterial Communities and Reduce Colonization by <i>Staphylococcus aureus</i> Competitors. 2017 , 61,	30
854	Intrinsic resistance versus intrinsic resistome: are we talking about the same concept? Reply to 'Resistance to polymyxins in Gram-negative organisms'. 2017 , 50, 281	2

853	Time-programmable drug dosing allows the manipulation, suppression and reversal of antibiotic drug resistance in vitro. 2017 , 8, 15589	51
852	Colistin and Polymyxin B Susceptibility Testing for Carbapenem-Resistant and -Positive Enterobacteriaceae: Comparison of Sensititre, MicroScan, Vitek 2, and Etest with Broth Microdilution. 2017 , 55, 2609-2616	104
851	Polymyxin-resistant, carbapenem-resistant <i>Acinetobacter baumannii</i> is eradicated by a triple combination of agents that lack individual activity. 2017 , 72, 1415-1420	38
850	Phosphoethanolamine addition to the Heptose I of the Lipopolysaccharide modifies the inner core structure and has an impact on the binding of Polymyxin B to the <i>Escherichia coli</i> outer membrane. 2017 , 620, 28-34	14
849	Host and Pathogen Biomarkers for Severe <i>Pseudomonas aeruginosa</i> Infections. 2017 , 215, S44-S51	84
848	Identification of a novel transposon-associated phosphoethanolamine transferase gene, <i>mcr-5</i> , conferring colistin resistance in d-tartrate fermenting <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Paratyphi B. 2017 , 72, 3317-3324	315
847	Detection and quantification of the plasmid-mediated <i>mcr-1</i> gene conferring colistin resistance in wastewater. 2017 , 50, 734-736	26
846	Structural modification of LPS in colistin-resistant, KPC-producing <i>Klebsiella pneumoniae</i> . 2017 , 72, 3035-3042	39
845	Potent β -Lactam Enhancer Activity of Zidebactam and WCK 5153 against <i>Acinetobacter baumannii</i> , Including Carbapenemase-Producing Clinical Isolates. 2017 , 61,	50
844	Polymyxin Resistance in Gram-negative Pathogens. 2017 , 19, 38	66
843	Prevalence of colistin resistance in clinical isolates of Enterobacteriaceae: A four-year cross-sectional study. 2017 , 75, 493-498	27
842	Genomic and Molecular Characterization of Clinical Isolates of Enterobacteriaceae Harboring in Colombia, 2002 to 2016. 2017 , 61,	41
841	Epidemiology and Antibiotic Resistance Phenotypes of Diarrheagenic <i>Escherichia coli</i> Responsible for Infantile Gastroenteritis in Ouagadougou, Burkina Faso. 2017 , 7, 168-175	6
840	Transcriptional and Mutational Profiling of an Aminoglycoside-Resistant <i>Pseudomonas aeruginosa</i> Small-Colony Variant. 2017 , 61,	12
839	Relevance of multidrug-resistant <i>Pseudomonas aeruginosa</i> infections in cystic fibrosis. 2017 , 307, 353-362	54
838	Colistin Resistance in KPC-2- and SHV-5-Producing <i>Klebsiella pneumoniae</i> Clinical Isolates in Bulgaria. 2017 , 62, 339-342	3
837	Structure, function and regulation of <i>Pseudomonas aeruginosa</i> porins. 2017 , 41, 698-722	141
836	Increased colistin resistance upon acquisition of the plasmid-mediated <i>mcr-1</i> gene in <i>Escherichia coli</i> isolates with chromosomally encoded reduced susceptibility to polymyxins. 2017 , 50, 503-504	4

835	Phenotype microarray analysis of the AdeRS two-component system in <i>Acinetobacter baumannii</i> . 2017 , 36, 2343-2353	6
834	Untreated urban waste contaminates Indian river sediments with resistance genes to last resort antibiotics. 2017 , 124, 388-397	105
833	Balancing mcr-1 expression and bacterial survival is a delicate equilibrium between essential cellular defence mechanisms. 2017 , 8, 2054	91
832	CXC Chemokines Exhibit Bactericidal Activity against Multidrug-Resistant Gram-Negative Pathogens. 2017 , 8,	8
831	Global phylogenetic analysis of <i>Escherichia coli</i> and plasmids carrying the mcr-1 gene indicates bacterial diversity but plasmid restriction. 2017 , 7, 15364	128
830	Synergy between Active Efflux and Outer Membrane Diffusion Defines Rules of Antibiotic Permeation into Gram-Negative Bacteria. 2017 , 8,	98
829	Modifications in the pmrB gene are the primary mechanism for the development of chromosomally encoded resistance to polymyxins in uropathogenic <i>Escherichia coli</i> . 2017 , 72, 2729-2736	28
828	An allelic variant of the PmrB sensor kinase responsible for colistin resistance in an <i>Escherichia coli</i> strain of clinical origin. 2017 , 7, 5071	26
827	Chemical space guided discovery of antimicrobial bridged bicyclic peptides against and its biofilms. 2017 , 8, 6784-6798	35
826	Molecular epidemiology of colistin-resistant Enterobacteriaceae in inpatient and avian isolates from China: high prevalence of mcr-negative <i>Klebsiella pneumoniae</i> . 2017 , 50, 536-541	31
825	MCR-1: rethinking the origin. 2017 , 50, 737	3
824	Mechanisms of Increased Resistance to Chlorhexidine and Cross-Resistance to Colistin following Exposure of <i>Klebsiella pneumoniae</i> Clinical Isolates to Chlorhexidine. 2017 , 61,	140
823	MgrB variants in colistin-susceptible and colistin-resistant <i>Klebsiella pneumoniae</i> ST258. 2017 , 50, 735-736	6
822	Colistin: still a lifesaver for the 21st century?. 2017 , 13, 59-71	66
821	Genetic characterization of mcr-1-bearing plasmids to depict molecular mechanisms underlying dissemination of the colistin resistance determinant. 2017 , 72, 393-401	141
820	MCR: modern colistin resistance. 2017 , 36, 415-420	57
819	The role of whole genome sequencing in antimicrobial susceptibility testing of bacteria: report from the EUCAST Subcommittee. 2017 , 23, 2-22	270
818	Recent Epidemiological Changes in Infectious Diseases. 2017 , 511-552	

817	Locally Acquired mcr-1 in Escherichia coli, Australia, 2011 and 2013. 2017 , 23, 1160-1163		23
816	Genetic Regulation of Virulence and Antibiotic Resistance in Acinetobacter baumannii. 2016 , 8,		48
815	Carbonyl Cyanide m-Chlorophenylhydrazine (CCCP) Reverses Resistance to Colistin, but Not to Carbapenems and Tigecycline in Multidrug-Resistant. <i>Frontiers in Microbiology</i> , 2017 , 8, 228	5-7	57
814	High Prevalence of Colistin Resistance and Gene in Isolated from Food Animals in China. <i>Frontiers in Microbiology</i> , 2017 , 8, 562	5-7	51
813	The Anticancer Peptide TAT-RasGAP Exerts Broad Antimicrobial Activity. <i>Frontiers in Microbiology</i> , 2017 , 8, 994	5-7	14
812	Infections in Cystic Fibrosis Patients: Drug Resistance and Therapeutic Approaches. <i>Frontiers in Microbiology</i> , 2017 , 8, 1592	5-7	70
811	Remarkable Diversity of Carrying from Hospital Sewage with the Identification of Two New Variants. <i>Frontiers in Microbiology</i> , 2017 , 8, 2094	5-7	44
810	Molecular Epidemiology and Colistin Resistant Mechanism of -Positive and -Negative Clinical Isolated. <i>Frontiers in Microbiology</i> , 2017 , 8, 2262	5-7	47
809	Characterization of Colistin-Resistant Isolated from Diseased Pigs in France. <i>Frontiers in Microbiology</i> , 2017 , 8, 2278	5-7	33
808	MgrB Alterations Mediate Colistin Resistance in Isolates from Iran. <i>Frontiers in Microbiology</i> , 2017 , 8, 2470	5-7	48
807	spp. Infections in Malaysia: A Review of Antimicrobial Resistance Trends, Mechanisms and Epidemiology. <i>Frontiers in Microbiology</i> , 2017 , 8, 2479	5-7	23
806	Membrane Active Antimicrobial Peptides: Translating Mechanistic Insights to Design. 2017 , 11, 73		228
805	Molecular and epidemiological characterization of carbapenemase-producing Enterobacteriaceae in Norway, 2007 to 2014. 2017 , 12, e0187832		38
804	Colistin resistant carrying - in urban sludge samples: Dhaka, Bangladesh. 2017 , 9, 77		17
803	Plasmid-mediated colistin resistance in and clinical isolates from the Western Cape region of South Africa. 2017 , 6, 78		36
802	Key features of -bearing plasmids from isolated from humans and food. 2017 , 6, 91		44
801	Genome sequencing and analysis of the first spontaneous Nanosilver resistant bacterium strain SCDR1. 2017 , 6, 119		9
800	LBJMR medium: a new polyvalent culture medium for isolating and selecting vancomycin and colistin-resistant bacteria. 2017 , 17, 220		18

799	Antimicrobial resistance in healthcare, agriculture and the environment: the biochemistry behind the headlines. 2017 , 61, 1-10	57
798	Resistance to Antibiotics and Antimicrobial Peptides. 2017 , 1-22	2
797	Coexistence of mcr-1, bla and two copies of fosA3 in a clinical <i>Escherichia coli</i> strain isolated from urine. 2018 , 60, 77-79	5
796	Clinical bacteriology in low-resource settings: today's solutions. 2018 , 18, e248-e258	76
795	An Improved Medium for Colistin Susceptibility Testing. 2018 , 56,	14
794	Chromosomally encoded and plasmid-mediated polymyxins resistance in <i>Acinetobacter baumannii</i> : a huge public health threat. 2018 , 37, 1009-1019	32
793	A macromolecular approach to eradicate multidrug resistant bacterial infections while mitigating drug resistance onset. 2018 , 9, 917	186
792	A putative RND-type efflux pump, H239_3064, contributes to colistin resistance through CrrB in <i>Klebsiella pneumoniae</i> . 2018 , 73, 1509-1516	27
791	Multidrug-resistant <i>Shigella sonnei</i> carrying the plasmid-mediated mcr-1 gene in China. 2018 , 52, 14-21	8
790	Fitness cost of mcr-1-mediated polymyxin resistance in <i>Klebsiella pneumoniae</i> . 2018 , 73, 1604-1610	37
789	Novel plasmid-mediated colistin resistance gene mcr-7.1 in <i>Klebsiella pneumoniae</i> . 2018 , 73, 1791-1795	206
788	Metal Nanoparticles for Diagnosis and Therapy of Bacterial Infection. 2018 , 7, e1701392	92
787	<i>Pseudomonas aeruginosa</i> adapts to octenidine in the laboratory and a simulated clinical setting, leading to increased tolerance to chlorhexidine and other biocides. 2018 , 100, e23-e29	21
786	<i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> Adaptation to Innate Immune Clearance Mechanisms in the Lung. 2018 , 10, 442-454	38
785	Substrate Recognition by a Colistin Resistance Enzyme from <i>Moraxella catarrhalis</i> . 2018 , 13, 1322-1332	11
784	Alterations of Metabolic and Lipid Profiles in Polymyxin-Resistant <i>Pseudomonas aeruginosa</i> . 2018 , 62,	30
783	Release of large amounts of lipopolysaccharides from <i>Pseudomonas aeruginosa</i> cells reduces their susceptibility to colistin. 2018 , 51, 888-896	8
782	Colistin-resistant KPC-2-producing <i>Klebsiella pneumoniae</i> ST423 harboring an IS5-like element in the mgrB gene isolated from cerebrospinal fluid. 2018 , 91, 184-185	2

781	New therapy from old drugs: synergistic bactericidal activity of sulfadiazine with colistin against colistin-resistant bacteria, including plasmid-mediated colistin-resistant mcr-1 isolates. 2018 , 51, 775-783	7
780	The Growing Threat of Antibiotic Resistance in Children. 2018 , 32, 1-17	43
779	Molecular diagnosis of antimicrobial resistance in Escherichia coli. 2018 , 18, 207-217	10
778	Identification of novel variants of the colistin resistance gene mcr-3 in Aeromonas spp. from the national resistance monitoring programme GERM-Vet and from diagnostic submissions. 2018 , 73, 1217-1221	40
777	Silent transmission of an IS1294b-deactivated mcr-1 gene with inducible colistin resistance. 2018 , 51, 822-828	16
776	Mechanisms of Bacterial Resistance to Antimicrobial Agents. 2018 , 6,	22
775	Detection of ISEcp1-associated bla-mediated resistance to colistin in KPC-producing Klebsiella pneumoniae isolates. 2018 , 51, 810-811	4
774	Pathogenesis of Infection. 2018 , 8,	101
773	Evaluation of Sensititre Broth Microdilution Plate for determining the susceptibility of carbapenem-resistant Klebsiella pneumoniae to polymyxins. 2018 , 91, 89-92	6
772	Comparative analysis of phosphoethanolamine transferases involved in polymyxin resistance across 10 clinically relevant Gram-negative bacteria. 2018 , 51, 586-593	12
771	Aminoarabinylation of Lipid A Is Critical for the Development of Colistin Resistance in Pseudomonas aeruginosa. 2018 , 62,	13
770	Emerging mechanisms of antimicrobial resistance in bacteria and fungi: advances in the era of genomics. 2018 , 13, 241-262	50
769	Synchronous application of antibiotics and essential oils: dual mechanisms of action as a potential solution to antibiotic resistance. 2018 , 44, 414-435	26
768	Efflux pump inhibitor CCCP to rescue colistin susceptibility in mcr-1 plasmid-mediated colistin-resistant strains and Gram-negative bacteria. 2018 , 73, 1862-1871	35
767	A 4.5-Year Within-Patient Evolution of a Colistin-Resistant Klebsiella pneumoniae Carbapenemase-Producing K. pneumoniae Sequence Type 258. 2018 , 67, 1388-1394	25
766	The global distribution and spread of the mobilized colistin resistance gene mcr-1. 2018 , 9, 1179	268
765	Antibiotic Combinations That Enable One-Step, Targeted Mutagenesis of Chromosomal Genes. 2018 , 4, 1007-1018	10
764	Report of plasmid-mediated colistin resistance in Klebsiella oxytoca from Iran. 2018 , 29, 59-63	9

763	Molecular Mechanisms of Colistin Resistance Among Pandrug-Resistant Isolates of <i>Acinetobacter baumannii</i> with High Case-Fatality Rate in Intensive Care Unit Patients. 2018 , 24, 1271-1276	14
762	Emerging Gram negative resistance to last-line antimicrobial agents fosfomycin, colistin and ceftazidime-avibactam - epidemiology, laboratory detection and treatment implications. 2018 , 16, 289-306	40
761	Genome-scale metabolic modeling of responses to polymyxins in <i>Pseudomonas aeruginosa</i> . 2018 , 7,	29
760	High Rates of Human Fecal Carriage of <i>mcr-1</i> -Positive Multidrug-Resistant Enterobacteriaceae Emerge in China in Association With Successful Plasmid Families. 2018 , 66, 676-685	41
759	Complete genome sequence of <i>Enterobacter cloacae</i> R11 reveals multiple genes potentially associated with high-level polymyxin E resistance. 2018 , 64, 87-90	2
758	Polymyxin susceptibility testing, interpretative breakpoints and resistance mechanisms: An update. 2018 , 12, 124-136	28
757	Pharmacokinetic/pharmacodynamic parameters for treatment optimization of infection due to antibiotic resistant bacteria: a summary for practical purposes in children and adults. 2018 , 30, 65-81	11
756	Susceptibility of colistin-resistant pathogens to predatory bacteria. 2018 , 169, 52-55	19
755	Were all carbapenemases created equal? Treatment of NDM-producing extensively drug-resistant Enterobacteriaceae: a case report and literature review. 2018 , 46, 1-13	16
754	Using experimental evolution to identify druggable targets that could inhibit the evolution of antimicrobial resistance. 2018 , 71, 279-286	15
753	Mechanisms and Detection of Antimicrobial Resistance. 2018 , 1467-1478.e4	2
752	Impact of the colistin resistance gene <i>mcr-1</i> on bacterial fitness. 2018 , 51, 554-561	29
751	Insertion sequence transpositions and point mutations in <i>mgrB</i> causing colistin resistance in a clinical strain of carbapenem-resistant <i>Klebsiella pneumoniae</i> from Vietnam. 2018 , 51, 789-793	19
750	Polymyxin-Induced Lipid A Deacylation in <i>Pseudomonas aeruginosa</i> Perturbs Polymyxin Penetration and Confers High-Level Resistance. 2018 , 13, 121-130	36
749	Genomic Insights into Colistin-Resistant <i>Klebsiella pneumoniae</i> from a Tunisian Teaching Hospital. 2018 , 62,	34
748	Inactivation of the <i>arn</i> operon and loss of aminoarabinose on lipopolysaccharide as the cause of susceptibility to colistin in an atypical clinical isolate of <i>proteus vulgaris</i> . 2018 , 51, 450-457	8
747	Genetic basis of chromosomally-encoded <i>mcr-1</i> gene. 2018 , 51, 578-585	28
746	Expanding the paradigm for the outer membrane: <i>Acinetobacter baumannii</i> in the absence of endotoxin. 2018 , 107, 47-56	34

745	Genomic analysis of in vivo acquired resistance to colistin and rifampicin in <i>Acinetobacter baumannii</i> . 2018 , 51, 266-269		13
744	Deciphering the tRNA-dependent lipid aminoacylation systems in bacteria: Novel components and structural advances. 2018 , 15, 480-491		14
743	Heterogeneous Colistin-Resistance Phenotypes Coexisting in Isolates Influence Colistin Susceptibility Testing. <i>Frontiers in Microbiology</i> , 2018 , 9, 2871	5-7	14
742	Resistance of Gram-negative Bacilli to Antimicrobials. 2018 , 71-162		
741	Rapid detection of colistin resistance in <i>Acinetobacter baumannii</i> using MALDI-TOF-based lipidomics on intact bacteria. 2018 , 8, 16910		31
740	The Capsule Regulatory Network of Defined by density-TraDISort. 2018 , 9,		49
739	Mechanistic Insights From Global Metabolomics Studies into Synergistic Bactericidal Effect of a Polymyxin B Combination With Tamoxifen Against Cystic Fibrosis MDR. 2018 , 16, 587-599		10
738	In vitro activity of colistin in combination with various antimicrobials against species, a report from South Iran. 2019 , 12, 129-135		10
737	Fitness cost of a mcr-1-carrying IncHI2 plasmid. 2018 , 13, e0209706		21
736	Development of New Tools to Detect Colistin-Resistance among Enterobacteriaceae Strains. 2018 , 2018, 3095249		14
735	A-Carrying Conjugative IncX4 Plasmid in Colistin-Resistant ST278 Strain Isolated From Dairy Cow Feces in Shanghai, China. <i>Frontiers in Microbiology</i> , 2018 , 9, 2833	5-7	8
734	What's That Resistance Mechanism? Understanding Genetic Determinants of Gram-Negative Bacterial Resistance. 2018 , 40, 165-174		10
733	Prevalence and molecular characteristics of colistin resistance in : isolates of clinical infection from a Chinese University Hospital. 2018 , 11, 1597-1603		17
732	Antibiotics, Resistome and Resistance Mechanisms: A Bacterial Perspective. <i>Frontiers in Microbiology</i> , 2018 , 9, 2066	5-7	108
731	Synergistic Activity of Niclosamide in Combination With Colistin Against Colistin-Susceptible and Colistin-Resistant and. 2018 , 8, 348		32
730	Colistin-resistant <i>Acinetobacter baumannii</i> as a cause of neonatal ventriculitis. 2018 , 1-3		1
729	Prevalence and Emergence of Extended-Spectrum Cephalosporin-, Carbapenem- and Colistin-Resistant Gram Negative Bacteria of Animal Origin in the Mediterranean Basin. <i>Frontiers in Microbiology</i> , 2018 , 9, 2299	5-7	47
728	How to manage infections. 2018 , 7, 212527		291

727	Polymyxins Resistance in Enterobacteriaceae. 2018,	2
726	A review on the current situation and challenges of colistin resistance in poultry production. 2018, 47, 546-558	28
725	A Comparative Study of Outer Membrane Proteome between Paired Colistin-Susceptible and Extremely Colistin-Resistant <i>Klebsiella pneumoniae</i> Strains. 2018, 4, 1692-1704	7
724	Evaluation of rapid polymyxin NP test to detect colistin-resistant <i>Klebsiella pneumoniae</i> isolated in a tertiary Greek hospital. 2018, 153, 35-39	9
723	Epidemiology and molecular characterisation of colistin-resistant <i>Klebsiella pneumoniae</i> isolates from immunocompromised patients in Tunisia. 2018, 52, 861-865	5
722	Rapid detection and discrimination of chromosome- and MCR-plasmid-mediated resistance to polymyxins by MALDI-TOF MS in <i>Escherichia coli</i> : the MALDIxin test. 2018, 73, 3359-3367	39
721	Mechanisms of Bacterial Resistance to Antimicrobial Agents. 2018, 51-82	2
720	Antimicrobial Resistance in <i>Mycoplasma</i> spp.. 2018, 425-446	3
719	Whole-genome sequencing enabling the detection of a colistin-resistant hypermutating <i>Citrobacter werkmanii</i> strain harbouring a novel metallo- β -lactamase VIM-48. 2018, 51, 867-874	8
718	<i>mcr-1</i> Gene Has No Effect on Colistin Resistance When It Coexists with Inactivated <i>mgrB</i> Gene in <i>Klebsiella pneumoniae</i> . 2018, 24, 1117-1120	7
717	Chromosomally Encoded in Colistin-Nonsusceptible <i>Pseudomonas aeruginosa</i> . 2018, 62,	29
716	Prevalence of <i>mcr</i> -type genes among colistin-resistant Enterobacteriaceae collected in 2014-2016 as part of the INFORM global surveillance program. 2018, 13, e0195281	49
715	A pan-genome-based machine learning approach for predicting antimicrobial resistance activities of the <i>Escherichia coli</i> strains. 2018, 34, i89-i95	45
714	Inflow water is a major source of trout farming contamination with <i>Salmonella</i> and multidrug resistant bacteria. 2018, 642, 1163-1171	14
713	Developments with investigating descriptors for antimicrobial A-peptides and their derivatives. 2018, 13, 727-739	1
712	Morphological, genomic and transcriptomic responses of <i>Klebsiella pneumoniae</i> to the last-line antibiotic colistin. 2018, 8, 9868	11
711	/ Activity of Potential MCR-1 Inhibitor in Combination With Colistin Againsts -1-Positive. <i>Frontiers in Microbiology</i> , 2018, 9, 1615	5-7 14
710	Genome Analysis of Multidrug-Resistant Isolated From Human Soft Tissue Sample. 2018, 9, 419	15

709	Multiple mutations in lipid-A modification pathway & novel variants in colistin-resistant. 2018 , 4, FSO319		15
708	Collateral damage of using colistin in hospitalized patients on emergence of colistin-resistant and colonization and infection. 2018 , 7, 84		14
707	Antimicrobial Resistance and Respiratory Infections. 2018 , 154, 1202-1212		30
706	A P7 Phage-Like Plasmid Carrying in an ST15 Clinical Isolate. <i>Frontiers in Microbiology</i> , 2018 , 9, 11	5-7	19
705	Whole Genome Sequence Analysis of CTX-M-15 Producing Isolates Allowed Dissecting a Polyclonal Outbreak Scenario. <i>Frontiers in Microbiology</i> , 2018 , 9, 322	5-7	25
704	The Versatile Mutational Resistome of. <i>Frontiers in Microbiology</i> , 2018 , 9, 685	5-7	96
703	The Genomic Basis of Intrinsic and Acquired Antibiotic Resistance in the Genus. <i>Frontiers in Microbiology</i> , 2018 , 9, 828	5-7	30
702	Detection and Characterization of Serotypes in the Production Chain of Two Pig Farms in Buenos Aires Province, Argentina. <i>Frontiers in Microbiology</i> , 2018 , 9, 1370	5-7	14
701	Molecular Characterization and Antimicrobial Resistance Pattern of Recovered from Wastewater Treatment Plants in Eastern Cape South Africa. 2018 , 15,		23
700	Metagenomics Reveals the Influence of Land Use and Rain on the Benthic Microbial Communities in a Tropical Urban Waterway. 2018 , 3,		23
699	A Rapid and Semi-Quantitative Gold Nanoparticles Based Strip Sensor for Polymyxin B Sulfate Residues. 2018 , 8,		26
698	Antimicrobial Resistance in spp. 2018 , 6,		62
697	A novel CXCL8-IP10 hybrid protein is effective in blocking pulmonary pathology in a mouse model of Klebsiella pneumoniae infection. 2018 , 62, 40-45		2
696	Enhanced Rhodococcus pyridinivorans sp. strain HR-1 anode performance in microbial fuel cells by adding polymyxin B sulfate. 2018 , 93, 171-174		6
695	Correlations among Resistances to Different Antimicrobial Compounds in Salmonella Strains from Hen Eggshells. 2018 , 81, 178-185		6
694	HldE Is Important for Virulence Phenotypes in Enterotoxigenic. 2018 , 8, 253		6
693	Phylogenomics of colistin-susceptible and resistant XDR Acinetobacter baumannii. 2018 , 73, 2952-2959		14
692	CpxR overexpression increases the susceptibility of acrB and cpxR double-deleted Salmonella enterica serovar Typhimurium to colistin. 2018 , 73, 3016-3024		7

691	Can octapeptin antibiotics combat extensively drug-resistant (XDR) bacteria?. 2018 , 16, 485-499	11
690	Proteus spp. as Putative Gastrointestinal Pathogens. 2018 , 31,	51
689	Multidrug-Resistant Acinetobacter baumannii Chloramphenicol Resistance Requires an Inner Membrane Permease. 2018 , 62,	9
688	Emergence of mcr-1 plasmid-mediated colistin-resistant Escherichia coli isolates from seawater. 2018 , 642, 90-94	37
687	Contribution of Novel Amino Acid Alterations in PmrA or PmrB to Colistin Resistance in -Negative Escherichia coli Clinical Isolates, Including Major Multidrug-Resistant Lineages O25b:H4-ST131-30Rx and Non-x. 2018 , 62,	24
686	qnrD-harboring plasmids in Providencia spp. recovered from food and environmental Brazilian sources. 2019 , 646, 1290-1292	6
685	Current scenario of plasmid-mediated colistin resistance in Latin America. 2019 , 51, 93-100	10
684	Spread of Carbapenem and Colistin-Resistant Klebsiella pneumoniae ST512 Clinical Isolates in Israel: A Cause for Vigilance. 2019 , 25, 63-71	18
683	Prevalence of Extended-Spectrum Beta-Lactamase-Producing Gram-Negative Bacilli and Emergence of mcr-1 Colistin Resistance Gene in Lebanese Swine Farms. 2019 , 25, 233-240	18
682	Performance of CHROMID [®] Colistin R agar, a new chromogenic medium for screening of colistin-resistant Enterobacterales. 2019 , 93, 1-4	4
681	Mechanistic insights and therapeutic opportunities of antimicrobial chemokines. 2019 , 88, 119-128	6
680	An Outbreak of Carbapenem-Resistant and Hypervirulent in an Intensive Care Unit of a Major Teaching Hospital in Wenzhou, China. 2019 , 7, 229	33
679	Polymyxin resistance in Klebsiella pneumoniae: multifaceted mechanisms utilized in the presence and absence of the plasmid-encoded phosphoethanolamine transferase gene mcr-1. 2019 , 74, 3190-3198	6
678	Multifaceted mechanisms of colistin resistance revealed by genomic analysis of multidrug-resistant Klebsiella pneumoniae isolates from individual patients before and after colistin treatment. 2019 , 79, 312-321	14
677	Evaluation of an In-House Colistin NP Test for Use in Resource-Limited Settings. 2019 , 57,	3
676	Resistance and Heteroresistance to Colistin in Pseudomonas aeruginosa Isolates from Wenzhou, China. 2019 , 63,	24
675	Dissecting Colistin Resistance Mechanisms in Extensively Drug-Resistant Acinetobacter baumannii Clinical Isolates. 2019 , 10,	38
674	Multiple Cross Displacement Amplification Coupled With Gold Nanoparticles-Based Lateral Flow Biosensor for Detection of the Mobilized Colistin Resistance Gene. 2019 , 9, 226	9

673	In-house rapid colorimetric method for detection of colistin resistance in : A significant impact on resistance rates. 2019 , 31, 432-435	3
672	Complex Signaling Networks Controlling Dynamic Molecular Changes in <i>Pseudomonas aeruginosa</i> Biofilm. 2019 , 26, 1979-1993	14
671	Genome Sequence of Colistin-Resistant Bacteremic Carrying the Beta-Lactamase Gene. 2019 , 2019, 3840563	3
670	Cryo-electron microscopy structures of ArnA, a key enzyme for polymyxin resistance, revealed unexpected oligomerizations and domain movements. 2019 , 208, 43-50	4
669	Insights into the antibiotic resistance dissemination in a wastewater effluent microbiome: bacteria, viruses and vesicles matter. 2019 , 21, 4582-4596	8
668	Global Emergence of Colistin-Resistant in Food Chains and Associated Food Safety Implications: A Review. 2019 , 82, 1440-1448	10
667	An Approach to Measuring Colistin Plasma Levels Regarding the Treatment of Multidrug-Resistant Bacterial Infection. 2019 , 8,	13
666	Epidemiology and molecular characterization of in recovered from patients with bloodstream infections in Changsha, central China. 2019 , 12, 2069-2076	9
665	Multidrug-resistant <i>Klebsiella pneumoniae</i> : genetic diversity, mechanisms of resistance to polymyxins and clinical outcomes in a tertiary teaching hospital in Brazil. 2019 , 61, e29	12
664	Treatment Options for Colistin Resistant : Present and Future. 2019 , 8,	51
663	Global Burden of Colistin-Resistant Bacteria: Mobilized Colistin Resistance Genes Study (1980-2018). 2019 , 7,	100
662	Implementation of the Rapid PolymyxinINP test directly to positive blood cultures bottles. 2019 , 95, 114889	1
661	Characterization Of Chromosome-Mediated Colistin Resistance In Isolates From Livestock In Korea. 2019 , 12, 3291-3299	18
660	Targeting the Sugary Armor of Species. 2019 , 9, 367	21
659	Reservoirs of resistance: polymyxin resistance in veterinary-associated companion animal isolates of. 2019 , 185, 206	4
658	Plasmid evolution in carbapenemase-producing Enterobacteriaceae: a review. 2019 , 1457, 61-91	55
657	Occurrence and Characterization of -Positive Isolated From Food-Producing Animals in Poland, 2011-2016. <i>Frontiers in Microbiology</i> , 2019 , 10, 1753	5.7 36
656	Emerging therapies against infections with. 2019 , 8,	46

655	Epidemiology and Treatment of Multidrug-Resistant and Extensively Drug-Resistant <i>Pseudomonas aeruginosa</i> Infections. 2019 , 32,		197
654	Emergence and Dissemination of β -Carrying Clinically Relevant Typhimurium Monophasic Clone ST34. 2019 , 7,		28
653	Acquisition of and Cocarriage of Virulence Genes in Avian Pathogenic <i>Escherichia coli</i> Isolates from Municipal Wastewater Inflows in Japan. 2019 , 85,		19
652	Colistin resistance emerges in pandrug-resistant <i>Klebsiella pneumoniae</i> epidemic clones in Rio de Janeiro, Brazil. 2019 , 54, 579-586		16
651	Plasmid-mediated <i>mcr-1</i> gene in <i>Acinetobacter baumannii</i> and <i>Pseudomonas aeruginosa</i> : first report from Pakistan. 2019 , 52, e20190237		38
650	Understanding the Epidemiology of Multi-Drug Resistant Gram-Negative Bacilli in the Middle East Using a One Health Approach. <i>Frontiers in Microbiology</i> , 2019 , 10, 1941	5-7	35
649	Expression of a novel class of bacterial Ig-like proteins is required for IncHI plasmid conjugation. 2019 , 15, e1008399		10
648	Colistin Heteroresistance in Isolates and Diverse Mutations of <i>PmrAB</i> and <i>PhoPQ</i> in Resistant Subpopulations. 2019 , 8,		14
647	Countering Gram-Negative Antibiotic Resistance: Recent Progress in Disrupting the Outer Membrane with Novel Therapeutics. 2019 , 8,		31
646	Integrated evolutionary analysis reveals antimicrobial peptides with limited resistance. 2019 , 10, 4538		107
645	The co-transfer of plasmid-borne colistin-resistant genes <i>mcr-1</i> and <i>mcr-3.5</i> , the carbapenemase gene <i>bla</i> and the 16S methylase gene <i>rmtB</i> from <i>Escherichia coli</i> . 2019 , 9, 696		27
644	<i>mcr-1</i> facilitated selection of high-level colistin-resistant mutants in <i>Escherichia coli</i> . 2019 , 25, 517.e1-517.e4		9
643	Colistin Resistant : Genomic and Transcriptomic Traits Acquired Under Colistin Therapy. <i>Frontiers in Microbiology</i> , 2018 , 9, 3195	5-7	23
642	Evaluation of efflux pump activity of multidrug-resistant Typhimurium isolated from poultry wet markets in India. 2019 , 12, 1081-1088		9
641	The rise and spread of plasmid-mediated polymyxin resistance. 2019 , 45, 131-161		98
640	Enhancing the antibacterial activity of polymyxins using a nonantibiotic drug. 2019 , 12, 1393-1405		7
639	Heterogeneous resistance to colistin in <i>Enterobacter cloacae</i> complex due to a new small transmembrane protein. 2019 , 74, 2551-2558		18
638	Bacterial carbohydrate diversity - a Brave New World. 2019 , 53, 1-8		22

637	Complete genome arrangement revealed the emergence of a poultry origin superbug <i>Citrobacter portucalensis</i> strain NR-12. 2019 , 18, 126-129		8
636	RNA-seq analyses of antibiotic resistance mechanisms in <i>Serratia marcescens</i> . 2019 , 20, 745-754		3
635	Multomics Assessment of Gene Expression in a Clinical Strain of CTX-M-15-Producing ST131. <i>Frontiers in Microbiology</i> , 2019 , 10, 831	5-7	3
634	Roles of two-component regulatory systems in antibiotic resistance. 2019 , 14, 533-552		38
633	Ursolic acid inhibits colistin efflux and curtails colistin resistant Enterobacteriaceae. 2019 , 9, 27		11
632	In vitro polymyxin activity against clinical multidrug-resistant fungi. 2019 , 8, 66		25
631	Modification of outer membrane permeability and alteration of LPS in veterinary enterotoxigenic <i>Escherichia coli</i> . 2019 , 124, 321-327		3
630	Synergistic Effect of Colistin Combined with PFK-158 against Colistin-Resistant Enterobacteriaceae. 2019 , 63,		11
629	Molecular mechanisms related to colistin resistance in Enterobacteriaceae. 2019 , 12, 965-975		101
628	Detection of plasmid-mediated colistin resistance, <i>mcr-1</i> gene, in <i>Escherichia coli</i> isolated from high-risk patients with acute leukemia in Spain. 2019 , 25, 605-609		12
627	Assessment of two selective agar media to isolate colistin-resistant bovine <i>Escherichia coli</i> : Correlation with minimal inhibitory concentration and presence of <i>mcr</i> genes. 2019 , 159, 174-178		9
626	First Detection of Colistin-Resistant in Association with Carbapenemase Isolated from Clinical Lebanese Patients. 2019 , 25, 925-930		10
625	A Novel Phenotypic Method To Screen for Plasmid-Mediated Colistin Resistance among. 2019 , 57,		5
624	Development and Multicentric Validation of a Lateral Flow Immunoassay for Rapid Detection of MCR-1-Producing. 2019 , 57,		12
623	Proteomic Analysis of Resistance of Gram-Negative Bacteria to Chlorhexidine and Impacts on Susceptibility to Colistin, Antimicrobial Peptides, and Ceragenins. <i>Frontiers in Microbiology</i> , 2019 , 10, 210	5-7	22
622	Emergence of an <i>Escherichia coli</i> strain co-harboring <i>mcr-1</i> and <i>bla</i> from a urinary tract infection in Taiwan. 2019 , 16, 286-290		15
621	Profiling the susceptibility of <i>Pseudomonas aeruginosa</i> strains from acute and chronic infections to cell-wall-targeting immune proteins. 2019 , 9, 3575		7
620	Comparative genomic analysis of 127 <i>Escherichia coli</i> strains isolated from domestic animals with diarrhea in China. 2019 , 20, 212		5

619	Exploring bacterial resistome and resistance dissemination: an approach of whole genome sequencing. 2019 ,		1
618	Promoters of Colistin Resistance in Infections. 2019 , 25, 997-1002		11
617	Polymyxins: To Combine or Not to Combine?. 2019 , 8,		19
616	Epidemiology and Mechanisms of Resistance of Extensively Drug Resistant Gram-Negative Bacteria. 2019 , 8,		83
615	Identification of a Novel Plasmid Carrying in an Strain in China. 2019 , 63,		29
614	Tridecaptin M, a New Variant Discovered in Mud Bacterium, Shows Activity against Colistin- and Extremely Drug-Resistant. 2019 , 63,		19
613	Inactivation of Polymyxin by Hydrolytic Mechanism. 2019 , 63,		9
612	A Genomic, Evolutionary, and Mechanistic Study of MCR-5 Action Suggests Functional Unification across the MCR Family of Colistin Resistance. 2019 , 6, 1900034		21
611	Plasmid-Mediated Colistin Resistance in : A Review. 2019 , 7,		43
610	Development of Competitive ELISA and CLEIA for Quantitative Analysis of Polymyxin B. 2019 , 12, 1412-1419	6	
609	The European Union summary report on antimicrobial resistance in zoonotic and indicator bacteria from humans, animals and food in 2017. 2019 , 17, e05598		136
608	Membrane charge and lipid packing determine polymyxin-induced membrane damage. 2019 , 2, 67		28
607	PCR-Dipstick-Oriented Surveillance and Characterization of - and Carbapenemase-Carrying in a Thai Hospital. <i>Frontiers in Microbiology</i> , 2019 , 10, 149	5-7	9
606	Complete Genome Sequence of Escherichia coli Antibiotic-Resistant Isolate AR Bank #0349. 2019 , 8,		
605	De-repression of the efflux system arises in clinical isolates of and reduces susceptibility to chlorhexidine and other biocides. 2019 ,		6
604	Detection of Colistin Resistance in Escherichia coli by Use of the MALDI Biotyper Sirius Mass Spectrometry System. 2019 , 57,		22
603	Multiple KPC Clones Contribute to an Extended Hospital Outbreak. <i>Frontiers in Microbiology</i> , 2019 , 10, 2767	5-7	15
602	Genomic Characterization of Prevalent , , and Within Swine Enteric Colibacillosis in Spain. <i>Frontiers in Microbiology</i> , 2019 , 10, 2469	5-7	18

601	Complex Class 1 Integron in a Clinical Strain From Vietnam Carrying Both and. <i>Frontiers in Microbiology</i> , 2019 , 10, 2472	5-7	8
600	Sulfonamide-based diffusible signal factor analogs interfere with quorum sensing in and. 2019 , 11, 1565-1582		6
599	Colistin-resistance-mediated bacterial surface modification sensitizes phage infection. 2019 ,		14
598	Purification and biological activity of natural variants synthesized by tridecaptin M gene cluster and in vitro drug-kinetics of this antibiotic class. 2019 , 9, 18870		4
597	A DedA Family Membrane Protein Is Required for Colistin Resistance. <i>Frontiers in Microbiology</i> , 2019 , 10, 2532	5-7	26
596	Different Effects Of Amniotic Membrane Homogenate On The Growth Of Uropathogenic And. 2019 , 12, 3365-3375		9
595	Effects of the Antimicrobial Peptide LL-37 and Innate Effector Mechanisms in Colistin-Resistant With Insertions. <i>Frontiers in Microbiology</i> , 2019 , 10, 2632	5-7	6
594	Exploring the antimicrobial resistance profiles of WHO critical priority list bacterial strains. 2019 , 19, 303		17
593	Resistance and heteroresistance to colistin among clinical isolates of <i>Acinetobacter baumannii</i> . 2020 , 67, 107-111		8
592	Emergence of colistin resistance in multidrug-resistant <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> strains isolated from cancer patients. 2019 , 18, 40		36
591	Evidence of colistin resistance genes (and) in wild birds and its public health implication in Egypt. 2019 , 8, 197		29
590	Chimeric peptidomimetic antibiotics against Gram-negative bacteria. 2019 , 576, 452-458		131
589	Emergence and dissemination of colistin-resistant <i>Klebsiella pneumoniae</i> isolates expressing OXA-48 plus CTX-M-15 in patients not previously treated with colistin in a Spanish university hospital. 2019 , 93, 147-153		3
588	O-Antigen-Dependent Colicin Insensitivity of Uropathogenic <i>Escherichia coli</i> . 2019 , 201,		15
587	Octapeptin C4 and polymyxin resistance occur via distinct pathways in an epidemic XDR <i>Klebsiella pneumoniae</i> ST258 isolate. 2019 , 74, 582-593		11
586	A Prospective Study of Complex Isolates and Colistin Susceptibility Monitoring by Mass Spectrometry of Microbial Membrane Glycolipids. 2019 , 57,		12
585	Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in <i>Pseudomonas aeruginosa</i> . 2019 , 4,		29
584	Investigation of Novel and Mutations in Isogenic <i>Acinetobacter baumannii</i> Isolates Associated with Colistin Resistance and Increased Virulence. 2019 , 63,		33

583	Polymyxin-resistant <i>Pseudomonas aeruginosa</i> assigned as ST245: First report in an intensive care unit in S ^B Paulo, Brazil. 2019 , 16, 147-149	3
582	SWATH based quantitative proteomics analysis reveals Hfq2 play an important role on pleiotropic physiological functions in <i>Aeromonas hydrophila</i> . 2019 , 195, 1-10	10
581	Development and validation of a multiplex polymerase chain reaction assay for detection of the five families of plasmid-encoded colistin resistance. 2019 , 53, 302-309	16
580	Lipids as Biomarkers of Cancer and Bacterial Infections. 2019 , 26, 1924-1932	6
579	Comparison of the Superpolymyxin and ChromID Colistin R Screening Media for the Detection of Colistin-Resistant from Spiked Rectal Swabs. 2019 , 63,	10
578	Structural and mechanistic insights into polymyxin resistance mediated by EptC originating from <i>Escherichia coli</i> . 2019 , 286, 750-764	4
577	Antimicrobial Susceptibility Testing for Polymyxins: Challenges, Issues, and Recommendations. 2019 , 57,	40
576	Colistin- and Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Clinical_Isolates: Algeria. 2019 , 25, 258-263	12
575	Emergence of a carbapenem-resistant and colistin-heteroresistant <i>Enterobacter cloacae</i> clinical isolate in Japan. 2019 , 25, 285-288	7
574	Two-Site Evaluation of the Colistin Broth Disk Elution Test To Determine Colistin Activity against Gram-Negative Bacilli. 2019 , 57,	24
573	Exogenous fatty acids alter phospholipid composition, membrane permeability, capacity for biofilm formation, and antimicrobial peptide susceptibility in <i>Klebsiella pneumoniae</i> . 2019 , 8, e00635	30
572	Potential of Antibiotics against Gram-Negative Bacteria by Polymyxin B Analogue SPR741 from Unique Perturbation of the Outer Membrane. 2020 , 6, 1405-1412	25
571	Optimization of the MALDixin test for the rapid identification of colistin resistance in <i>Klebsiella pneumoniae</i> using MALDI-TOF MS. 2020 , 75, 110-116	13
570	MDR <i>Salmonella enterica</i> serovar Typhimurium ST34 carrying <i>mcr-1</i> isolated from cases of bloodstream and intestinal infection in children in China. 2020 , 75, 92-95	14
569	Antibiotic resistance in <i>Vibrio cholerae</i> : Understanding the ecology of resistance genes and mechanisms. 2020 , 38 Suppl 1, A83-A92	51
568	Changing Characteristics and Susceptibility to Ceftazidime/Avibactam of Bloodstream Extensively Drug-Resistant from a Greek Intensive Care Unit. 2020 , 26, 28-37	5
567	Genomic Insights into Two Colistin-Resistant Strains Isolated from the Stool of Preterm Neonate During the First Week of Life. 2020 , 26, 190-203	1
566	Biofilm Formation and Virulence Determinants of <i>Klebsiella oxytoca</i> Clinical Isolates from Patients with Colorectal Cancer. 2020 , 51, 855-860	4

565	Evaluation of EDTA and Dipicolinic Acid in Broth Microdilution with Polymyxin B as a Phenotypic Test to Detect the -1 Gene. 2020 , 26, 329-333	1
564	Risk factors for polymyxin-resistant carbapenemase-producing Enterobacteriaceae in critically ill patients: An epidemiological and clinical study. 2020 , 55, 105882	2
563	Co-Occurrence of Plasmid-Mediated Colistin Resistance () and Extended-Spectrum -Lactamase Encoding Genes in from Bovine Mastitic Milk in China. 2020 , 26, 685-696	16
562	Intestinal carriage of colistin-resistant Enterobacteriaceae at Saint Georges Hospital in Lebanon. 2020 , 21, 386-390	6
561	Diversity of amino acid substitutions in PmrCAB associated with colistin resistance in clinical isolates of Acinetobacter baumannii. 2020 , 55, 105862	14
560	Molecular characterization of extended-spectrum β lactamase-producing Klebsiella pneumoniae from a Malaysian hospital. 2020 , 51, 189-195	5
559	Structure-Function Studies on IMD-0354 Identifies Highly Active Colistin Adjuvants. 2020 , 15, 210-218	6
558	Dissemination of Multidrug-Resistant and Gram-Negative Bacilli in Broilers, Farm Workers, and the Surrounding Environment in Lebanon. 2020 , 26, 368-377	13
557	Sequence Duplication Within Gene Contribute to High-Level Colistin Resistance in Avian Pathogenic. 2020 , 26, 1442-1451	0
556	First identification of bla carbapenemase in bla-producing Acinetobacter baumannii ST85 in Spain. 2020 , 38, 11-15	6
555	Progress Overview of Bacterial Two-Component Regulatory Systems as Potential Targets for Antimicrobial Chemotherapy. 2020 , 9,	17
554	Analysis of mgrB gene mutations in colistin-resistant Klebsiella pneumoniae in Tehran, Iran. 2020 , 21, 100864	0
553	Aspirin, sodium benzoate and sodium salicylate reverse resistance to colistin in Enterobacteriaceae and Pseudomonas aeruginosa. 2020 , 75, 3568-3575	3
552	Molecular and epidemiological surveillance of polymyxin-resistant Klebsiella pneumoniae strains isolated from Brazil with multiple mgrB gene mutations. 2020 , 310, 151448	4
551	Association between the use of colistin for short-term treatment of Gram-negative bacterial infections and the emergence of colistin-resistant Enterobacteriaceae in swine from selected swine farms in Thailand. 2020 , 15, e0238939	5
550	Global impact of -positive bacteria on "one health". 2020 , 46, 565-577	16
549	Resveratrol enhances the antimicrobial effect of polymyxin B on Klebsiella pneumoniae and Escherichia coli isolates with polymyxin B resistance. 2020 , 20, 306	7
548	Resistance and Heteroresistance to Colistin in Isolates from Wenzhou, China. 2020 , 13, 3551-3561	9

547	Heterogeneity and Diversity of Genetic Context in Chicken-Associated <i>Klebsiella pneumoniae</i> . 2020 , 65,		3
546	Agents of Last Resort: An Update on Polymyxin Resistance. 2020 , 34, 723-750		7
545	A Macromolecule Reversing Antibiotic Resistance Phenotype and Repurposing Drugs as Potent Antibiotics. 2020 , 7, 2001374		13
544	Protein phosphorylation mechanisms: a novel paradigm of antimicrobial resistance in 'critical threat' pathogens. 2020 , 15, 837-840		1
543	in Spanish Cattle Herds: Two Groups of Multiresistant Isolates Predominate, with One Remaining Susceptible to Fluoroquinolones. 2020 , 9,		3
542	A study of Rose Bengal against a 2-keto-3-deoxy-d--octulosonate cytidyltransferase as an antibiotic candidate. 2020 , 35, 1414-1421		2
541	Complementarity of Selective Culture and qPCR for Colistin Resistance Screening in Fresh and Frozen Pig Cecum Samples. <i>Frontiers in Microbiology</i> , 2020 , 11, 572712	5-7	2
540	Isolation and plasmid characterisation of <i>Salmonella enterica</i> serovar Albany harbouring mcr-5 from retail chicken meat in Japan. 2020 , 367,		1
539	Synergistic effects of <i>Cinnamomum cassia</i> L. essential oil in combination with polymyxin B against carbapenemase-producing <i>Klebsiella pneumoniae</i> and <i>Serratia marcescens</i> . 2020 , 15, e0236505		8
538	Identification of Genes Required for Resistance to Peptidomimetic Antibiotics by Transposon Sequencing. <i>Frontiers in Microbiology</i> , 2020 , 11, 1681	5-7	5
537	Age and gender-specific antibiotic resistance patterns among Bangladeshi patients with urinary tract infection caused by. 2020 , 6, e04161		8
536	-Beyerane Diterpenes as a Key Platform for the Development of ArnT-Mediated Colistin Resistance Inhibitors. 2020 , 85, 10891-10901		7
535	Lipid A profiling and metabolomics analysis of paired polymyxin-susceptible and -resistant MDR <i>Klebsiella pneumoniae</i> clinical isolates from the same patients before and after colistin treatment. 2020 , 75, 2852-2863		4
534	Polymyxins and Bacterial Membranes: A Review of Antibacterial Activity and Mechanisms of Resistance. 2020 , 10,		33
533	Evolution of Colistin Resistance in the <i>Klebsiella pneumoniae</i> Complex Follows Multiple Evolutionary Trajectories with Variable Effects on Fitness and Virulence Characteristics. 2020 , 65,		7
532	Understanding of Colistin Usage in Food Animals and Available Detection Techniques: A Review. 2020 , 10,		14
531	Metabolic Perturbations Caused by the Over-Expression of in. <i>Frontiers in Microbiology</i> , 2020 , 11, 588658;7		4
530	The Mobile Colistin Resistance Gene, , Is Carried on IncX4 Plasmids in Multidrug Resistant Isolated from Rainbow Trout Aquaculture. 2020 , 8,		13

529	High abundance of the colistin resistance gene mcr-1 in chicken gut-bacteria in Bangladesh. 2020 , 10, 17292		7
528	RP Substitution in the PmrB HAMP Domain Contributes to Colistin Heteroresistance in Escherichia coli Isolates from Swine. 2020 , 64,		2
527	Outer Membranes of Polymyxin-Resistant with Phosphoethanolamine-Modified Lipid A and Lipopolysaccharide Loss Display Different Atomic-Scale Interactions with Polymyxins. 2020 , 6, 2698-2708		11
526	Overcoming Intrinsic and Acquired Resistance Mechanisms Associated with the Cell Wall of Gram-Negative Bacteria. 2020 , 9,		13
525	Prevalence, Distribution, and Diversity of Strains Isolated From a Subtropical Lake. <i>Frontiers in Microbiology</i> , 2020 , 11, 521146	5-7	4
524	Small intestinal bacterial overgrowth as a cause of protracted wound healing and vitamin D deficiency in a spinal cord injured patient with a sacral pressure sore: a case report. 2020 , 20, 283		
523	Activity of Antimicrobial Peptides and Ciprofloxacin against Biofilms. 2020 , 25,		5
522	Simulations of octapeptin-outer membrane interactions reveal conformational flexibility is linked to antimicrobial potency. 2020 , 295, 15902-15912		10
521	Molecular and genome characterization of colistin-resistant Escherichia coli isolates from wild sea lions (<i>Zalophus californianus</i>). 2020 , 51, 2009-2014		1
520	Molecular characterization of lpxACD and pmrA/B two-component regulatory system in the colistin resistance <i>Acinetobacter baumannii</i> clinical isolates. 2020 , 21, 100952		3
519	Genomic Analysis of Carbapenem-Resistant Isolates Belonging to Major Endemic Clones in South America. <i>Frontiers in Microbiology</i> , 2020 , 11, 584603	5-7	8
518	Serotype Is Associated With High Rate of Colistin Resistance Among Clinical Isolates of. <i>Frontiers in Microbiology</i> , 2020 , 11, 592146	5-7	1
517	Novel Opportunity to Reverse Antibiotic Resistance: To Explore Traditional Chinese Medicine With Potential Activity Against Antibiotics-Resistance Bacteria. <i>Frontiers in Microbiology</i> , 2020 , 11, 610070	5-7	12
516	A <i>Klebsiella pneumoniae</i> ST307 outbreak clone from Germany demonstrates features of extensive drug resistance, hypermucoviscosity, and enhanced iron acquisition. 2020 , 12, 113		25
515	Synergies with and Resistance to Membrane-Active Peptides. 2020 , 9,		3
514	Colistin Update on Its Mechanism of Action and Resistance, Present and Future Challenges. 2020 , 8,		32
513	Beta-lactam-Induced Outer Membrane Alteration Confers E. coli a Fortuitous Competitive Advantage through Cross-Resistance to Bacteriophages. 2020 , 7, 428-433		4
512	ArnD is a deformylase involved in polymyxin resistance. 2020 , 56, 6830-6833		1

511	Susceptibility of Contact Lens-Related Keratitis Isolates to Multipurpose Disinfecting Solutions, Disinfectants, and Antibiotics. 2020 , 9, 2	6
510	Antimicrobial treatment of <i>Mycoplasma hyopneumoniae</i> infections. 2020 , 259-260, 105474	2
509	Freshwater viral metagenome reveals novel and functional phage-borne antibiotic resistance genes. 2020 , 8, 75	50
508	Genomic insights into multidrug-resistant and hypervirulent <i>Klebsiella pneumoniae</i> co-harboring metal resistance genes in aquatic environments. 2020 , 201, 110782	11
507	Functional determinants of a small protein controlling a broadly conserved bacterial sensor kinase. 2020 ,	8
506	Media for colistin susceptibility testing does not improve the detection of <i>Klebsiella pneumoniae</i> isolates carrying MgrB disruption and other mutation driven colistin resistance mechanisms. 2020 , 98, 115077	3
505	The O-Antigen Epitope Governs Susceptibility to Colistin in <i>Salmonella enterica</i> . 2020 , 11,	9
504	Effective Strategy Targeting Polymyxin-Resistant Gram-Negative Pathogens: Polymyxin B in Combination with the Selective Serotonin Reuptake Inhibitor Sertraline. 2020 , 6, 1436-1450	9
503	Rate of polymyxin resistance among <i>Acinetobacter baumannii</i> recovered from hospitalized patients: a systematic review and meta-analysis. 2020 , 39, 1427-1438	9
502	Polymyxins-Curcumin Combination Antimicrobial Therapy: Safety Implications and Efficacy for Infection Treatment. 2020 , 9,	10
501	First identification of blaNDM-1 carbapenemase in blaOXA-94-producing <i>Acinetobacter baumannii</i> ST85 in Spain. 2020 , 38, 11-15	
500	Global priority pathogens: virulence, antimicrobial resistance and prospective treatment options. 2020 , 15, 649-677	5
499	A novel colistin adjuvant identified by virtual screening for ArnT inhibitors. 2020 , 75, 2564-2572	11
498	Cathelicidins Modulate TLR-Activation and Inflammation. 2020 , 11, 1137	38
497	Detection of Colistin Resistance in Using MALDIxin Test on the Routine MALDI Biotyper Sirius Mass Spectrometer. <i>Frontiers in Microbiology</i> , 2020 , 11, 1141	5-7 5
496	Colistin Resistance and Extensive Genetic Variations in PmrAB and PhoPQ in <i>Klebsiella Pneumoniae</i> Isolates from South Korea. 2020 , 77, 2307-2311	5
495	Extensive Therapeutic Drug Monitoring of Colistin in Critically Ill Patients Reveals Undetected Risks. 2020 , 8,	5
494	Mechanisms of bactericidal action and resistance of polymyxins for Gram-positive bacteria. 2020 , 104, 3771-3780	13

493	Calycosin enhances the bactericidal efficacy of polymyxin B by inhibiting MCR-1 in vitro. 2020 , 129, 532-540	2
492	Alterations in AdeS and AdeR regulatory proteins in 1-(1-naphthylmethyl)-piperazine responsive colistin resistance of. 2020 , 32, 286-293	4
491	Cryptides Identified in Human Apolipoprotein B as New Weapons to Fight Antibiotic Resistance in Cystic Fibrosis Disease. 2020 , 21,	14
490	The European Union Summary Report on Antimicrobial Resistance in zoonotic and indicator bacteria from humans, animals and food in 2017/2018. 2020 , 18, e06007	99
489	Programmable removal of bacterial pathogens using CRISPR-Cas9 system. 2020 , 39-44	0
488	Whole genome sequencing provides genomic insights into three <i>Morganella morganii</i> strains isolated from bovine rectal swabs in Dhaka, Bangladesh. 2020 , 367,	2
487	First record of <i>Serratia marcescens</i> from Adelie and Gentoo penguin faeces collected in the Wilhelm Archipelago, Graham Land, West Antarctica. 2020 , 43, 903-910	1
486	Multidrug Resistance (MDR) and Collateral Sensitivity in Bacteria, with Special Attention to Genetic and Evolutionary Aspects and to the Perspectives of Antimicrobial Peptides-A Review. 2020 , 9,	19
485	Difficulty in detecting low levels of polymyxin resistance in clinical isolates: evaluation of Rapid Polymyxin NP test, Colispot Test and SuperPolymyxin medium. 2020 , 36, 100722	1
484	Molecular mechanisms and prevalence of colistin resistance of <i>Klebsiella pneumoniae</i> in the Middle East region: A review over the last 5 years. 2020 , 22, 625-630	12
483	Prevalence of avian-origin mcr-1-positive <i>Escherichia coli</i> with a potential risk to humans in Tai'an, China. 2020 , 99, 5118-5126	4
482	Comparative genomic analysis of <i>Proteus</i> spp. isolated from tree shrews indicated unexpectedly high genetic diversity. 2020 , 15, e0229125	7
481	Emerging colistin resistance in serovar Newport isolates from human infections. 2020 , 9, 535-538	27
480	Evaluating the genome and resistome of extensively drug-resistant <i>Klebsiella pneumoniae</i> using native DNA and RNA Nanopore sequencing. 2020 , 9,	13
479	KPC-2-producing <i>Klebsiella pneumoniae</i> ST147 in a neonatal unit: Clonal isolates with differences in colistin susceptibility attributed to AcrAB-TolC pump. 2020 , 55, 105903	20
478	Winter is coming - Impact of temperature on the variation of beta-lactamase and mcr genes in a wastewater treatment plant. 2020 , 712, 136499	22
477	In Vivo Development of Polymyxin B Resistance in owing to a 42 bp Deletion in the Sequence of. 2020 , 2020, 5868479	1
476	Antimicrobial Peptides from Rat-Tailed Maggots of the Drone Fly Show Potent Activity against Multidrug-Resistant Gram-Negative Bacteria. 2020 , 8,	5

475	Microbial Pathogenesis and Antimicrobial Drug Resistance. 2020 , 79-97		
474	Effect of lipid A aminoarabinylation on <i>Pseudomonas aeruginosa</i> colistin resistance and fitness. 2020 , 55, 105957		5
473	MgrB Inactivation Is Responsible for Acquired Resistance to Colistin in <i>Enterobacter hormaechei</i> subsp.. 2020 , 64,		5
472	Draft Genome Sequence of a <i>Pseudomonas aeruginosa</i> Sequence Type 3351 Strain Exhibiting High-Level Resistance to Polymyxins in a Pediatric Patient with Cystic Fibrosis in Mexico. 2020 , 9,		1
471	Emergence of Mobile Colistin Resistance () in a Highly Successful <i>Klebsiella pneumoniae</i> Sequence Type 15 Clone from Clinical Infections in Bangladesh. 2020 , 5,		15
470	New Mutations Involved in Colistin Resistance in <i>Acinetobacter baumannii</i> . 2020 , 5,		11
469	Occurrence and genetic characteristics of mcr-1-positive colistin-resistant <i>E. coli</i> from poultry environments in Bangladesh. 2020 , 22, 546-552		14
468	Colistin and its role in the Era of antibiotic resistance: an extended review (2000-2019). 2020 , 9, 868-885		111
467	Metabolic mechanism of colistin resistance and its reverting in <i>Vibrio alginolyticus</i> . 2020 , 22, 4295-4313		22
466	Emergence of carbapenem-resistant and colistin-susceptible <i>Enterobacter cloacae</i> complex co-harboring bla and mcr-9 in Japan. 2020 , 20, 282		15
465	In vitro activity of ceftazidime-avibactam and comparators against Gram-negative bacterial isolates collected in the Asia-Pacific region as part of the INFORM program (2015-2017). 2020 , 19, 14		7
464	Regulating polymyxin resistance in Gram-negative bacteria: roles of two-component systems PhoPQ and PmrAB. 2020 , 15, 445-459		20
463	Whole Genome Sequencing and Characteristics of -1-Harboring Plasmids of Porcine Isolates Belonging to the High-Risk Clone O25b:H4-ST131 Clade B. <i>Frontiers in Microbiology</i> , 2020 , 11, 387	5-7	15
462	Gene interaction network approach to elucidate the multidrug resistance mechanisms in the pathogenic bacterial strain <i>Proteus mirabilis</i> . 2021 , 236, 468-479		13
461	Colistin Resistance in Environmental Isolates of. 2021 , 27, 328-336		6
460	Antibiotic Resistance Patterns and Detection in Avian Pathogenic Isolates from Commercial Layer and Layer Breeder Flocks Demonstrating Colibacillosis in Greece. 2021 , 27, 710-720		4
459	Border Control: Regulating LPS Biogenesis. 2021 , 29, 334-345		12
458	Differential regulation and the underlying mechanisms of clay minerals to <i>Escherichia coli</i> under the stress of polymyxin B: Comparing halloysite with kaolinite. 2021 , 265, 129095		0

457	Encyclopedia of Evolutionary Psychological Science. 2021 , 5804-5809		
456	Antimicrobial Peptides and Peptidomimetics for the Control of Antimicrobial Resistance. 2021 , 205-249		1
455	Prevalence of Colistin-Resistant Bacteria among Retail Meats in Japan. 2021 , 9, 48-56		3
454	Colistin Dependence in Extensively Drug-Resistant Strain Is Associated with IS and IS Insertions and Multiple Cellular Responses. 2021 , 22,		3
453	Pathogenesis of <i>Proteus mirabilis</i> in Catheter-Associated Urinary Tract Infections. 2021 , 105, 354-361		5
452	Importance of protein structure and function in pathogenesis: Highlights on the multifaceted organism <i>Mycobacterium tuberculosis</i> . 2021 , 775-809		
451	Susceptibility Testing of Colistin for : How Far Are We from the Truth?. 2021 , 10,		1
450	A DedA Family Membrane Protein Is Required for Proton Motive Force Dependent Lipid A Modification. <i>Frontiers in Microbiology</i> , 2020 , 11, 618389	5-7	9
449	Drug repurposing for next-generation combination therapies against multidrug-resistant bacteria. 2021 , 11, 4910-4928		16
448	Whole-Genome Sequencing of Clinically Isolated Carbapenem-Resistant Enterobacterales Harboring Genes in Thailand, 2016-2019. <i>Frontiers in Microbiology</i> , 2020 , 11, 586368	5-7	7
447	Design of a PEGylated Antimicrobial Prodrug with Species-Specific Activation. 2021 , 22, 984-992		3
446	Characterization of the Complete Nucleotide Sequences of -Encoding Plasmids From Enterobacterales Isolates in Retailed Raw Meat Products From the Czech Republic. <i>Frontiers in Microbiology</i> , 2020 , 11, 604067	5-7	4
445	The History of Colistin Resistance Mechanisms in Bacteria: Progress and Challenges. 2021 , 9,		13
444	A stable antimicrobial peptide with dual functions of treating and preventing citrus Huanglongbing. 2021 , 118,		20
443	Carriage of colistin-resistant Gram-negative bacteria in children from communities in Cape Town (Tuberculosis child multidrug-resistant preventive therapy trial sub-study). 2021 , 36, 241		0
442	Chemical Highlights Supporting the Role of Lipid A in Efficient Biological Adaptation of Gram-Negative Bacteria to External Stresses. 2021 , 64, 1816-1834		1
441	Effects of Regulatory Network Organization and Environment on PmrD Connector Activity and Polymyxin Resistance in and. 2021 , 65,		4
440	Rescuing the Last-Line Polymyxins: Achievements and Challenges. 2021 , 73, 679-728		39

439	Influences of Lipid A Types on LPS Bilayer Properties. 2021 , 125, 2105-2112		2
438	Mobile Plasmid Mediated Transition From Colistin-Sensitive to Resistant Phenotype in. <i>Frontiers in Microbiology</i> , 2021 , 12, 619369	5-7	2
437	Evolutionary Dynamics Based on Comparative Genomics of Pathogenic Escherichia coli Lineages Harboring Polyketide Synthase () Island. 2021 , 12,		3
436	Molecular survey of mcr1 and mcr2 plasmid mediated colistin resistance genes in Escherichia coli isolates of animal origin in Iran. 2021 , 14, 107		1
435	Mobilized colistin resistance (mcr) genes from 1 to 10: a comprehensive review. 2021 , 48, 2897-2907		28
434	The ABC-Type Efflux Pump MacAB Is Involved in Protection of Serratia marcescens against Aminoglycoside Antibiotics, Polymyxins, and Oxidative Stress. 2021 , 6,		7
433	Bacterial defenses against a natural antibiotic promote collateral resilience to clinical antibiotics. 2021 , 19, e3001093		7
432	Performance of polymyxin B agar-based tests among carbapenem-resistant Enterobacterales. 2021 , 72, 767-773		0
431	Critical Role of 3'-Downstream Region of in Polymyxin Resistance in BL21(DE3). 2021 , 9,		0
430	Antimicrobial Resistance in Pseudomonas aeruginosa: A Concise Review.		4
429	Occurrence and distribution of antimicrobial resistance genes in the soil of an industrial park in China: A metagenomics survey. 2021 , 273, 116467		2
428	Antibiotic resistance in Pakistan: a systematic review of past decade. 2021 , 21, 244		22
427	Global RNA profiles show target selectivity and physiological effects of peptide-delivered antisense antibiotics. 2021 , 49, 4705-4724		4
426	activity of cefiderocol and comparators against isolates of Gram-negative pathogens from a range of infection sources: SIDERO-WT-2014-2018 studies in France. 2021 , 3, dlab081		0
425	The Challenge of Global Emergence of Novel Colistin-Resistant ST131. 2021 , 27, 1513-1524		3
424	Prevalence and Relatedness of -Mediated Colistin-Resistant Isolated From Livestock and Farmers in Japan. <i>Frontiers in Microbiology</i> , 2021 , 12, 664931	5-7	0
423	Plasmid-mediated -like operon confers colistin (hetero)resistance to. 2021 ,		1
422	Mutations in two component system (PhoPQ and PmrAB) in colistin resistant Klebsiella pneumoniae from North Indian tertiary care hospital. 2021 , 74, 450-457		3

421	The European Union Summary Report on Antimicrobial Resistance in zoonotic and indicator bacteria from humans, animals and food in 2018/2019. 2021 , 19, e06490		39
420	Molecular characteristics of antibiotic-resistant Escherichia coli and Klebsiella pneumoniae strains isolated from hospitalized patients in Tehran, Iran. 2021 , 20, 32		5
419	Investigating the mechanism of action of aggregation-inducing antimicrobial Pept-ins. 2021 , 28, 524-536.e4		2
418	Phage Digestion of a Bacterial Capsule Imparts Resistance to Two Antibiotic Agents. 2021 , 9,		0
417	New Sequence Type ST3449 in Multidrug-Resistant Isolates from a Cystic Fibrosis Patient. 2021 , 10,		1
416	Molecular Epidemiology of Extensively Drug-Resistant Encoded Colistin-Resistant Bacterial Strains Co-Expressing Multifarious β -Lactamases. 2021 , 10,		6
415	Detection of mobile colistin-resistance gene variants (and) in urinary tract pathogens in Bangladesh: the last resort of infectious disease management colistin efficacy is under threat. 2021 , 14, 513-522		5
414	"One for All": Functional Transfer of OMV-Mediated Polymyxin B Resistance From sv. Typhi β and β to Susceptible Bacteria. <i>Frontiers in Microbiology</i> , 2021 , 12, 672467	5-7	5
413	Multidrug-resistant : mechanisms of resistance including updated data for novel β -Lactam- β -Lactamase inhibitor combinations. 2021 , 19, 1457-1468		7
412	Gene in Latin America: How Is It Disseminated Among Humans, Animals, and the Environment?. 2021 , 9, 648940		1
411	Insights into collateral susceptibility and collateral resistance in Acinetobacter baumannii during antimicrobial adaptation. 2021 , 73, 168-175		1
410	Phenotypic and Multi-Omics Characterization of K-12 Adapted to Chlorhexidine Identifies the Role of MlaA and Other Cell Envelope Alterations Regulated by Stress Inducible Pathways in CHX Resistance. 2021 , 8, 659058		1
409	A short synthetic peptide, based on LyeTx I from Lycosa erythrognatha venom, shows potential to treat pneumonia caused by carbapenem-resistant Acinetobacter baumannii without detectable resistance. 2021 , 74, 425-434		3
408	Dissemination of MCR-Type Genes Encoding Polymyxin Resistance in Russia and Across the Globe. 2021 , 66, 57-64		
407	LpxT-Dependent Phosphorylation of Lipid A in Increases Resistance to Deoxycholate and Enhances Gut Colonization. <i>Frontiers in Microbiology</i> , 2021 , 12, 676596	5-7	1
406	Stereochemical Trajectories of a Two-Component Regulatory System PmrA/B in a Colistin-Resistant Acinetobacter baumannii Clinical Isolate. 2021 , 25, 193-201		2
405	Genomic and Transcriptomic Analysis of Colistin-Susceptible and Colistin-Resistant Isolates Identify Two-Component System EvgS/EvgA Associated with Colistin Resistance in. 2021 , 14, 2437-2447		
404	In vitro activity of cefiderocol and comparators against isolates of Gram-negative pathogens from a range of infection sources: SIDERO-WT-2014-2018 studies in Italy. 2021 , 25, 390-398		4

403	Prevalence of extended beta-lactamase-producing <i>Pseudomonas aeruginosa</i> isolated from human immunodeficiency virus patients in Ibadan, Nigeria. 2021 , 23, 101159		
402	Antimicrobial Resistance Mechanisms and Virulence of Colistin- and Carbapenem-Resistant Isolated from a Teaching Hospital in Taiwan. 2021 , 9,		4
401	A Molecular Perspective on Colistin and : Mode of Action, Resistance Genetics, and Phenotypic Susceptibility. 2021 , 11,		3
400	A novel decoy strategy for polymyxin resistance in. 2021 , 10,		3
399	Fitness barriers to spread of colistin-resistant <i>Klebsiella pneumoniae</i> overcome by establishing niche in patient population with elevated colistin use.		1
398	Colistin Sensitivity and Factor H-Binding Protein Expression among Commensal Species. 2021 , e0017521		0
397	Carbapenem and Colistin Resistance in <i>Enterobacter</i> : Determinants and Clones. 2021 , 29, 473-476		5
396	Adaptive Drug Resistance in Malaria Parasite: A Threat to Malaria Elimination Agenda?.		
395	First Report of Coexistence of β -Lactamase Genes as Well as Colistin Resistance Gene in a Transferrable Plasmid of a Clinical Isolate of. <i>Frontiers in Microbiology</i> , 2021 , 12, 676113	5-7	5
394	Synergistic Activity of Colistin Combined With Auranofin Against Colistin-Resistant Gram-Negative Bacteria. <i>Frontiers in Microbiology</i> , 2021 , 12, 676414	5-7	2
393	Emergence of Colistin Resistance in Carbapenem-Resistant Mediated by Premature Termination of the Gene Regulator. <i>Frontiers in Microbiology</i> , 2021 , 12, 656610	5-7	3
392	Risk factors and mechanisms of in vivo emergence of colistin resistance in carbapenem-resistant <i>Klebsiella pneumoniae</i> . 2021 , 57, 106342		1
391	Mechanisms of polymyxin resistance induced by <i>Salmonella typhimurium</i> in vitro. 2021 , 257, 109063		3
390	Effects of colistin and tigecycline on multidrug-resistant <i>Acinetobacter baumannii</i> biofilms: advantages and disadvantages of their combination. 2021 , 11, 11700		3
389	Colistin Resistance in spp. 2021 , 22,		4
388	Treatment of patients with serious infections due to carbapenem-resistant <i>Acinetobacter baumannii</i> : How viable are the current options?. 2021 , 41, 762-780		5
387	Occurrence of mcr-mediated colistin resistance in <i>Salmonella</i> clinical isolates in Thailand. 2021 , 11, 14170		2
386	The efficacy of antimicrobial agents is decreased in a polymicrobial environment.		

385	Antibiotic resistance in a predominantly occurring Gram-negative bacterial community from treated sewage to assess the need for going beyond coliform standards. 2021 , 56, 143-154	0
384	Colistin-Resistant Enterobacterales Isolated from Chicken Meat in Western Algeria. 2021 , 27, 991-1002	5
383	Evolution of Polymyxin Resistance Regulates Colibactin Production in. 2021 , 16, 1243-1254	1
382	Prevalence and mechanisms of antibiotic resistance in Escherichia coli isolated from mastitic dairy cattle in Canada. 2021 , 21, 222	3
381	Roles of proteins containing immunoglobulin-like domains in the conjugation of bacterial plasmids.	
380	Evaluation of Chemical Changes in Laboratory-Induced Colistin-Resistant. 2021 , 22,	3
379	Mobile Colistin Resistance Enzyme MCR-3 Facilitates Bacterial Evasion of Host Phagocytosis. 2021 , 8, e2101336	2
378	Gold Nanoclusters as Nanoantibiotic Auranofin Analogues. 2021 , e2101032	3
377	Prevalence and molecular mechanisms of colistin resistance in Acinetobacter baumannii clinical isolates in Tehran, Iran. 2021 ,	1
376	Bacterial surface properties influence the activity of the TAT-RasGAP antimicrobial peptide. 2021 , 24, 102923	2
375	Prevalence of Colistin-resistant Escherichia coli Isolated from Cattle in the Tokachi Area of Hokkaido, 2010-2018. 2021 , 74, 491-496	
374	Polymyxin resistance in Enterobacterales: overview and epidemiology in the Americas. 2021 , 58, 106426	2
373	An omics-based framework for assessing the health risk of antimicrobial resistance genes. 2021 , 12, 4765	25
372	Polymyxins, the last-resort antibiotics: Mode of action, resistance emergence, and potential solutions. 2021 , 46, 1	6
371	Tailoring metal-organic frameworks-based nanozymes for bacterial theranostics. 2021 , 275, 120951	8
370	Chemical "Butterfly Effect" Explaining the Coordination Chemistry and Antimicrobial Properties of Clavanin Complexes. 2021 , 60, 12730-12734	4
369	Genetic Features of Plasmid- and Chromosome-Mediated in Isolates From Animal Organs With Lesions. <i>Frontiers in Microbiology</i> , 2021 , 12, 707332	5-7 0
368	Presence of 2-hydroxymyristate on endotoxins is associated with death in neonates with complex septic shock. 2021 , 24, 102916	3

367	Current Update on Intrinsic and Acquired Colistin Resistance Mechanisms in Bacteria. 2021 , 8, 677720	20
366	Acquisition of the Gene Lowers the Target Mutation to Impede the Evolution of a High-Level Colistin-Resistant Mutant in. 2021 , 14, 3041-3051	0
365	Genotyping of paired KPC-producing <i>Klebsiella pneumoniae</i> isolates with and without divergent polymyxin B susceptibility profiles. 2021 , 52, 1981-1989	1
364	A new mutation in mgrb mediating polymyxin resistance in <i>Klebsiella variicola</i> . 2021 , 58, 106424	2
363	Genomic Characterization of ESBL- and Carbapenemase-Positive Enterobacteriaceae Co-harboring in Japan. <i>Frontiers in Microbiology</i> , 2021 , 12, 665432	5-7 2
362	Twenty-year trends in antimicrobial resistance from aquaculture and fisheries in Asia. 2021 , 12, 5384	8
361	Core Oligosaccharide Portion of Lipopolysaccharide Plays Important Roles in Multiple Antibiotic Resistance in <i>Escherichia coli</i> . 2021 , 65, e0034121	2
360	Characterization of Fitness Cost Caused by Tigecycline-Resistance Gene (X6) in Different Host Bacteria. 2021 , 10,	0
359	Bacterial small membrane proteins: the Swiss army knife of regulators at the lipid bilayer. 2021 , JB0034421	2
358	Strategies for Rapid Identification of Membrane Proteins and Polymyxin B's Effects. 2021 , 11, 734578	2
357	Carbapenem-Resistant <i>Acinetobacter baumannii</i> in US hospitals: diversification of circulating lineages and antimicrobial resistance.	
356	Characterization of carbapenem-resistant gram-negative bacterial isolates from Nigeria by whole genome sequencing. 2021 , 101, 115422	1
355	Colistin Resistance Mechanisms in Clinical and spp. Isolates from the Western Cape of South Africa. 2021 , 27, 1249-1258	4
354	In vitro activity of cefiderocol and comparators against isolates of Gram-negative bacterial pathogens from a range of infection sources: SIDERO-WT-2014-2018 studies in Spain. 2021 , 26, 292-300	3
353	Subinhibitory concentration stress of colistin enhanced PhoPQ expression in <i>Escherichia coli</i> harboring mcr-1. 2021 , 61, 1029-1034	1
352	Transcriptomics reveals how minocycline-colistin synergy overcomes antibiotic resistance in multidrug-resistant <i>Klebsiella pneumoniae</i> .	
351	Proteomic profiling of carbapenemase (KPC)-producer after induced polymyxin resistance. 2021 , 16, 1195-1207	0
350	In vitro activity of cefiderocol and comparators against Gram-negative bacterial isolates from a series of surveillance studies in England: 2014-2018. 2021 , 27, 1-11	1

- 349 Effects of sub-lethal antimicrobial photodynamic therapy mediated by haematoporphyrin monomethyl ether on polymyxin-resistant *Escherichia coli* clinical isolate. **2021**, 36, 102516
- 348 Updates on the global dissemination of colistin-resistant *Escherichia coli*: An emerging threat to public health. **2021**, 799, 149280 8
- 347 New insights about the EptA protein and its correlation with the gene in polymyxin resistance in. **2021**, 2, 100042
- 346 It's Not Easy Being Green: A Narrative Review on the Microbiology, Virulence and Therapeutic Prospects of Multidrug-Resistant. **2021**, 10, 55
- 345 The Acquisition of Colistin Resistance Is Associated to the Amplification of a Large Chromosomal Region in kp52145. **2021**, 22, 0
- 344 Coarse-grained simulations uncover Gram-negative bacterial defense against polymyxins by the outer membrane. **2021**, 19, 3885-3891 3
- 343 Efficacy of loading dose colistin versus carbapenems for treatment of extended spectrum beta lactamase producing Enterobacteriaceae. **2021**, 11, 18 6
- 342 Antimicrobial Resistance in *Stenotrophomonas maltophilia*: Mechanisms and Clinical Implications. **2017**, 937-958 3
- 341 Lipid A Phosphoethanolamine Transferase: Regulation, Structure and Immune Response. **2020**, 432, 5184-5196 11
- 340 Designer broad-spectrum polyimidazolium antibiotics. **2020**, 117, 31376-31385 12
- 339 Genomic and phenotypic analyses of multidrug-resistant NCCP 16007 isolated from a patient with a urinary tract infection. **2021**, 12, 150-164 8
- 338 Ultrastructural changes caused by polymyxin B and meropenem in multiresistant *Klebsiella pneumoniae* carrying blaKPC-2 gene. **2016**, 65, 1370-1377 8
- 337 Comparison of susceptibility testing methods for determining the activity of colistin against Gram-negative bacilli of clinical origin. **2019**, 68, 60-66 2
- 336 Evaluation of risk factors for colistin resistance among uropathogenic isolates of *Escherichia coli* and *Klebsiella pneumoniae*: a case-control study. **2019**, 68, 837-847 6
- 335 Evaluation and readout optimization of the rapid polymyxin NP test for the detection of colistin-resistant Enterobacteriaceae. **2019**, 68, 1189-1193 3
- 334 Mutations in the two component regulator systems PmrAB and PhoPQ give rise to increased colistin resistance in and spp. **2020**, 69, 521-529 5
- 333 A feed-forward loop between SroC and MgrR small RNAs modulates the expression of eptB and the susceptibility to polymyxin B in *Salmonella Typhimurium*. **2016**, 162, 1996-2004 26
- 332 Exogenous polyunsaturated fatty acids (PUFAs) alter phospholipid composition, membrane permeability, biofilm formation and motility in *Acinetobacter baumannii*. **2017**, 163, 1626-1636 18

331	Octapeptin C4 Induces Less Resistance and Novel Mutations in an Epidemic Carbapenemase-producing <i>Klebsiella pneumoniae</i> ST258 Clinical Isolate Compared to Polymyxins.	1
330	Choosing Your Battles: Which Resistance Genes Warrant Global Action?.	10
329	Detection of Five -Carrying Isolates in Four Czech Hospitals. 2020 , 5,	5
328	Antibiotic resistance in spp. isolated from poultry: A global overview. 2020 , 13, 2070-2084	18
327	Quantitative Release Assessment of -mediated Colistin-resistant from Japanese Pigs. 2020 , 8, 13-33	4
326	Molecular mechanisms of colistin resistance in Africa: A systematic review of literature. 2020 , 10, 367-379	4
325	Co-Occurrence of and in Isolated from a Patient with Bloodstream Infection. 2020 , 13, 1397-1402	14
324	Molecular Characterization of Carbapenem/Colistin-Resistant Clinical Isolates from Egypt by Whole-Genome Sequencing. 2020 , 13, 4487-4493	6
323	Old drug, new findings: colistin resistance and dependence of <i>Acinetobacter baumannii</i> . 2017 , 1, 159-167	12
322	Detection of mcr-1 colistin resistance gene in polyclonal <i>Escherichia coli</i> isolates in Barcelona, Spain, 2012 to 2015. 2016 , 21,	39
321	Colistin Resistance in Enterobacterales Strains - A Current View. 2019 , 68, 417-427	26
320	Polymyxin Resistant Bacteria in Australian Poultry. 2020 , 4,	4
319	Occurrence and Characteristics of Mobile Colistin Resistance () Gene-Containing Isolates from the Environment: A Review. 2020 , 17,	47
318	Antimicrobial Contribution of Chitosan Surface-Modified Nanoliposomes Combined with Colistin against Sensitive and Colistin-Resistant Clinical. 2020 , 13,	3
317	Pathogenic factors of <i>Pseudomonas aeruginosa</i> - the role of biofilm in pathogenicity and as a target for phage therapy. 2017 , 71, 78-91	44
316	Multidrug-Resistant Bacterial Foodborne Pathogens: Impact on Human Health and Economy.	3
315	Global Dissemination of the mcr-1 gene. 2016 , 4,	2
314	Anti-bacterial Agents. 2021 ,	

313	Rapid Identification of Colistin-Resistant Strains by MALDI-TOF Mass Spectrometry. 2021 , 9,		
312	Exogenous and Endogenous Phosphoethanolamine Transferases Differently Affect Colistin Resistance and Fitness in. <i>Frontiers in Microbiology</i> , 2021 , 12, 778968	5-7	1
311	Phlorethin potentiates polymyxin E activity against gram-negative bacteria. 2021 , 287, 120085		2
310	The diffusible signal factor synthase, Rpff, in <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> is required for the maintenance of membrane integrity and virulence. 2022 , 23, 118-132		2
309	Bacteriophage as a Novel Therapeutic Weapon for Killing Colistin-Resistant Multi-Drug-Resistant and Extensively Drug-Resistant Gram-Negative Bacteria. 2021 , 78, 4023-4036		5
308	mcr-mediated colistin resistance in South America, a One Health approach. 2021 , Publish Ahead of Print,		1
307	Structure and Functional Attributes of Bacterial Communities in Premise Plumbing Across the United States. 2021 , 55, 14105-14114		3
306	Rapid and consistent evolution of colistin resistance in <i>Pseudomonas aeruginosa</i> during morbidostat culture.		
305	<i>Acinetobacter baumannii</i> and <i>Acinetobacter</i> spp.. 2017 , 923-935		1
304	High rates of human faecal carriage of mcr-1-positive multi-drug resistant isolates emerge in China in association with successful plasmid families.		
303	The global distribution and spread of the mobilized colistin resistance gene mcr-1.		1
302	Linear Thanatin Is an Effective Antimicrobial Peptide against Colistin-Resistant <i>Escherichia coli</i> in Vitro. 2018 , 08, 589-599		1
301	Chromosomally Encoded mcr-5 in Colistin Non-susceptible <i>Pseudomonas aeruginosa</i> .		
300	Functional determinants of a small protein controlling a broadly conserved bacterial sensor kinase.		
299	Emergent of Colistin Resistant Enterobacteriaceae carrying the mcr-1 gene among clinical isolates from patients in an Argentine hospital: Clinical and microbiological aspects. 010-012		
298	Polymyxins: Antibacterial activity, resistance mechanisms and epidemiology of plasmid mediated resistance. 2019 , 70, 1-6		
297	Multiple Cross Displacement Amplification Coupled with Gold Nanoparticles-Based Lateral Flow Biosensor for Detection of the Mobilized Colistin Resistance Gene mcr-1.		
296	PECULIARITIES OF RECOMBINATIVE GENOMICS OF ACINETOBACTER [HUMAN PATHOGEN. 2019 , 1, 40-44		

- 295 Fast and robust detection of colistin resistance in *Escherichia coli* using the MALDI Biotyper Sirius mass spectrometry system.
- 294 Encyclopedia of Evolutionary Psychological Science. **2020**, 1-6
- 293 ANTIBIOTICS AND BACTERIA: MECHANISMS OF ACTION AND RESISTANCE STRATEGIES. **2020**, 59, 49-62 1
- 292 In vitro evolution of colistin resistance in the *Klebsiella pneumoniae* complex follows multiple evolutionary trajectories with variable effects on fitness and virulence characteristics.
- 291 Effects of regulatory network organization and environment on PmrD connector activity and polymyxin resistance in *Klebsiella pneumoniae* and *Escherichia coli*.
- 290 Mobilization of a *Kluyvera*-like *arnBCADTEF* operon, besides *mcr* genes, confers colistin resistance to *Escherichia coli* isolated from healthy animals.
- 289 Emergence of carbapenemase-producing and colistin resistant *Klebsiella pneumoniae* ST101 high-risk clone in Turkey. **2020**, 67, 216-221 1
- 288 Emergence of the Novel Aminoglycoside Acetyltransferase Variant and Acquisition of Colistin Heteroresistance in Carbapenem-Resistant Due to a Disrupting Mutation in the DNA Repair Enzyme *MutS*. **2020**, 11, 1
- 287 ROLE OF TWO-COMPONENT SIGNAL TRANSDUCTION SYSTEMS IN ANTIMICROBIAL RESISTANCE OF GRAM-NEGATIVE PATHOGENS. **2020**, 59, 259-276
- 286 *Klebsiella pneumoniae* Infections and Antimicrobial Drug Resistance. **2020**, 195-225 0
- 285 The Evolution of Microbial Defence Systems Against Antimicrobial Agents. **2020**, 1-31
- 284 Colistin susceptibility pattern in gram negative bacilli isolated from patients of dhaka medical college hospital with distribution of antibiotic resistance genes among them.
- 283 Colistin Resistant Genes Prevalence in Livestock Animals (Swine, Bovine, Poultry) from a Multinational Perspective. A Systematic Review. **2021**, 8, 5
- 282 Combining Colistin with Furanone C-30 Rescues Colistin Resistance of Gram-Negative Bacteria and. **2021**, e0123121 2
- 281 Adaptive responses of to treatment with antibiotics. **2021**, AAC0087821 1
- 280 Global trends and current status in colistin resistance research: a bibliometric analysis (1973-2019). **2020**, 9, 856 2
- 279 Antibiotic resistance in pulmonary infections: mechanisms and epidemiology. 21-43
- 278 Bacterial surface properties influence the activity of the TAT-RasGAP317-326 antimicrobial peptide.

277	Antibiotic selection in the treatment of acute invasive infections by <i>Pseudomonas aeruginosa</i> : Guidelines by the Spanish Society of Chemotherapy. 2018 , 31, 78-100		30
276	Colistin resistance in Gram-negative bacteria analysed by five phenotypic assays and inference of the underlying genomic mechanisms. 2021 , 21, 321		0
275	Benzimidazole Isosteres of Salicylanilides Are Highly Active Colistin Adjuvants. 2021 , 7, 3303-3313		0
274	Colistin Induces Resistance through Biofilm Formation, via Increased Expression, in Avian Pathogenic. 2021 , 10,		1
273	The surveillance of colistin-resistance and mobilized colistin resistance genes in multi-drug resistant Enterobacteriaceae isolated in Japan. 2021 , 106480		1
272	Colistin Resistance Onset Strategies and Genomic Mosaicism in Clinical Lineages. 2021 , 10,		0
271	Deep Mutational Scanning Reveals the Active-Site Sequence Requirements for the Colistin Antibiotic Resistance Enzyme MCR-1. 2021 , e0277621		0
270	Deciphering Multidrug-Resistant <i>Acinetobacter baumannii</i> from a Pediatric Cancer Hospital in Egypt. 2021 , e0072521		2
269	Risk Factors and Prevalence of -Positive in Fecal Carriages Among Community Children in Southern Taiwan. <i>Frontiers in Microbiology</i> , 2021 , 12, 748525	5:7	2
268	MgrB dependent colistin resistance in <i>Klebsiella pneumoniae</i> is associated with an increase in host-to-host transmission..		
267	Clonal Dissemination of Plasmid-Mediated Carbapenem and Colistin Resistance in Refugees Living in Overcrowded Camps in North Lebanon.. 2021 , 10,		1
266	Diversity of carbapenem-resistant <i>Klebsiella pneumoniae</i> ST14 and emergence of a subgroup with KL64 capsular locus in the Arabian Peninsula. 2021 , 1		2
265	<i>Pseudomonas aeruginosa</i> Pneumonia: Evolution of Antimicrobial Resistance and Implications for Therapy.. 2022 ,		2
264	Prevalence of polymyxin resistance through the food chain, the global crisis.. 2022 ,		0
263	Colistin. 2022 ,		0
262	Elucidation of molecular mechanism for colistin resistance among Gram-negative isolates from tertiary care hospitals.. 2022 ,		1
261	Transcriptomics reveals how minocycline-colistin synergy overcomes antibiotic resistance in multidrug-resistant .. 2022 , aac0196921		1
260	Polyclonal emergence of MDR <i>Enterobacter cloacae</i> complex isolates producing multiple extended spectrum beta-lactamases at Maputo Central Hospital, Mozambique.		0

259	Photodynamic inactivation (PDI) as a promising alternative to current pharmaceuticals for the treatment of resistant microorganisms.. 2022 ,		3
258	Comparative genomic analyses of Polymyxin-resistant Enterobacteriaceae strains from China.. 2022 , 23, 88		0
257	Colistin Resistance Mechanisms in Human Strains Isolated by the National Surveillance Enter-Net Italia (2016-2018).. 2022 , 11,		0
256	Roles of Proteins Containing Immunoglobulin-Like Domains in the Conjugation of Bacterial Plasmids.. 2022 , e0097821		2
255	Molecular and Genomic Insights of -Producing Isolates from Piglets.. 2022 , 11,		0
254	Genomic characterisation of an mcr-1 and mcr-3-producing Escherichia coli strain isolated from pigs in France.. 2022 ,		1
253	Current Protocols in Laboratory Diagnosis, Genotyping, and Treatment of Burkholderia pseudomallei. 2022 , 44, 23-31		0
252	Mutation in mgrB is the major colistin resistance mechanism in Klebsiella pneumoniae clinical isolates in Tehran, Iran.. 2022 ,		1
251	Application of Bioluminescent Methods to Study the Effect of the Membrane-active Antibiotic Colistin on Bacterial Cells.. 2022 ,		0
250	Prevalence and Therapeutic Management of Infections by Multi-Drug-Resistant Organisms (MDROs) in Patients with Liver Cirrhosis: A Narrative Review.. 2022 , 11,		0
249	Polymyxin causes cell envelope remodeling and stress responses in mcr-1-harboring Escherichia coli.. 2021 , 106505		
248	Detection of Gene in Undefined Species Isolated From Clams.. 2022 , 10,		0
247	Plasmid Mediated Colistin-Resistance in Clinical Extraintestinal Strains Isolated in Poland.. <i>Frontiers in Microbiology</i> , 2021 , 12, 547020	5-7	2
246	A Klebsiella pneumoniae DedA family membrane protein is required for colistin resistance and for virulence in wax moth larvae.. 2021 , 11, 24365		4
245	Lactacaseicin 30 and Colistin as a Promising Antibiotic Formulation against Gram-Negative β -Lactamase-Producing Strains and Colistin-Resistant Strains.. 2021 , 11,		1
244	Overview of polymyxin resistance in Enterobacteriaceae.. 2022 , 55, e0349		0
243	Synthesis and Biological Evaluation of Quinolinylnyl Pyrimidines Targeting Type II NADH-Dehydrogenase (NDH-2).. 2022 ,		1
242	Characterization of Amino Acid Substitution W20S in MgrB Involved in Polymyxin Resistance in Klebsiella pneumoniae.. 2022 , e0176621		0

241	Mechanism of Action and Resistance Evasion of an Antimicrobial Oligomer against Multidrug-Resistant Gram-Negative Bacteria.. 2022,	1
240	Lysine acetylation regulates antibiotic resistance in Escherichia coli.	0
239	Lipid-mediated antimicrobial resistance: a phantom menace or a new hope?. 2022, 14, 1-18	1
238	The Role of Colistin in the Era of New β -Lactam/ β -Lactamase Inhibitor Combinations.. 2022, 11,	3
237	Model architectures for bacterial membranes.. 2022, 14, 111-143	1
236	The Gram-Negative Bacilli Isolated from Caves- and and a Review of Their Involvement in Human Infections.. 2022, 19,	1
235	Synchronic resisto-genesis effects identify most prevalent mechanism in Acinetobacter baumannii.	
234	Decreased efficacy of antimicrobial agents in a polymicrobial environment.. 2022,	6
233	Adaptation Potential of Three Psychrotolerant Aquatic Bacteria in the Pan-Okhotsk Region. 2022, 14, 1107	0
232	The European Union Summary Report on Antimicrobial Resistance in zoonotic and indicator bacteria from humans, animals and food in 2019-2020.. 2022, 20, e07209	16
231	Clinical Perspective of Antimicrobial Resistance in Bacteria.. 2022, 15, 735-746	6
230	Serendipitous Discovery of a Highly Active and Selective Resistance-Modifying Agent for Colistin-Resistant Gram-Negative Bacteria.. 2022, 7, 12442-12446	0
229	Mecanismos de resistencia en bacterias gramnegativas. 2022,	0
228	Multidrug Resistant Strains Inhibition by Bacillus Species from the Gut of Oreochromis niloticus and Pomacea canaliculata. 2022, 30, 1657-1688	
227	MgrB-Dependent Colistin Resistance in Klebsiella pneumoniae Is Associated with an Increase in Host-to-Host Transmission.. 2022, e0359521	0
226	A 12 year experience of colistin resistance in Klebsiella pneumoniae causing neonatal sepsis: two-component systems, efflux pumps, lipopolysaccharide modification and comparative phylogenomics.. 2022,	1
225	ICU-Associated Gram-Negative Bloodstream Infection: Risk Factors Affecting the Outcome Following the Emergence of Colistin-Resistant Isolates in a Regional Greek Hospital.. 2022, 11,	1
224	Carbapenem-Resistant Acinetobacter baumannii in U.S. Hospitals: Diversification of Circulating Lineages and Antimicrobial Resistance.. 2022, e0275921	0

223	Molecular Epidemiology and Colistin-Resistant Mechanism of β -Positive and β -Negative Isolated From Animal in Sichuan Province, China.. <i>Frontiers in Microbiology</i> , 2022 , 13, 818548	5-7	2
222	Multicentre evaluation of a selective isolation protocol for detection of mcr-positive E. coli and Salmonella spp. in food-producing animals and meat.. 2022 ,		1
221	Mechanisms Underlying Synergistic Killing of Polymyxin B in Combination with Cannabidiol against : A Metabolomic Study.. 2022 , 14,		1
220	Metagenomic Characterization of Microbial Pollutants and Antibiotic- and Metal-Resistance Genes in Sediments from the Canals of Venice. 2022 , 14, 1161		1
219	Endophytes: an unexplored treasure to combat Multidrug resistance□ 2022 , 2, 100249		1
218	Identification of mcr-1-positive multidrug-resistant Escherichia coli isolates from clinical samples in Shanghai, China.. 2022 ,		0
217	Scarless excision of an insertion sequence restores capsule production and virulence in Acinetobacter baumannii.. 2021 ,		1
216	Bacterial Mixology: Combining Pharmacodynamic Models to Predict In Vitro Competition of MCR-1-Harboring .. 2021 , 11,		0
215	Image_1.TIF. 2018 ,		
214	Image_2.TIF. 2018 ,		
213	Table_1.docx. 2018 ,		
212	Image_1.tif. 2018 ,		
211	Image_2.tiff. 2018 ,		
210	Image_3.tiff. 2018 ,		
209	Table_1.xlsx. 2018 ,		
208	Table_2.xlsx. 2018 ,		
207	Table_3.xlsx. 2018 ,		
206	Image_1.JPEG. 2019 ,		

205 Image_2.JPEG. 2019,

204 Table_1.docx. 2019,

203 Table_1.XLSX. 2019,

202 Table_1.docx. 2020,

201 Table_2.XLSX. 2020,

200 Table_3.XLSX. 2020,

199 Table_4.XLSX. 2020,

198 Table_5.XLSX. 2020,

197 Table_6.XLSX. 2020,

196 Data_Sheet_1.PDF. 2018,

195 Table_2.XLSX. 2018,

194 Data_Sheet_1.PDF. 2018,

193 Table1.DOCX. 2018,

192 Image_1.TIF. 2020,

191 Image_2.PDF. 2020,

190 Table_1.XLSX. 2020,

189 Table_2.pdf. 2020,

188 Table_1.DOCX. 2019,

187 Table_1.DOCX. 2019,

186 Data_Sheet_1.xlsx. 2020,

185 Image_1.pdf. 2020,

184 Table_1.docx. 2020,

183 Table_2.docx. 2020,

182 Table_3.docx. 2020,

181 Presentation_1.pdf. 2019,

180 Data_Sheet_1.docx. 2020,

179 Table_1.docx. 2020,

178 Table_1.XLSX. 2020,

177 Table_2.docx. 2020,

176 Image_1.JPEG. 2019,

175 Image_2.JPEG. 2019,

174 Image_3.JPEG. 2019,

173 Image_4.JPEG. 2019,

172 Table_1.DOCX. 2019,

171 Table_10.XLSX. 2019,

170 Table_11.XLSX. 2019,

169 Table_12.DOCX. 2019,

168 Table_13.DOCX. 2019,

167 Table_2.DOCX. 2019,

166 Table_3.DOCX. 2019,

165 Table_4.XLSX. 2019,

164 Table_5.XLSX. 2019,

163 Table_6.XLSX. 2019,

162 Table_7.XLSX. 2019,

161 Table_8.XLSX. 2019,

160 Table_9.XLSX. 2019,

159 Data_Sheet_1.pdf. 2019,

158 Data_Sheet_1.PDF. 2020,

157 Image1.PDF. 2018,

156 Image2.PDF. 2018,

155 Image3.PDF. 2018,

154 Table1.PDF. 2018,

153 Table2.PDF. 2018,

152 Table3.PDF. 2018,

151 Table_1.DOCX. 2019,

150 Table_2.DOCX. 2019,

149 Table_1.xls. 2019,

148 Table_2.DOCX. 2019,

147 Table_3.XLSX. 2019,

146 Table_4.DOCX. 2019,

145 Table_5.DOCX. 2019,

144 Table_6.DOCX. 2019,

143 Table_7.DOCX. 2019,

142 Table_8.DOCX. 2019,

141 Table_9.DOCX. 2019,

140 Data_Sheet_1.PDF. 2020,

139 Table_1.xlsx. 2020,

138 Table_2.xlsx. 2020,

137 Table_3.xlsx. 2020,

136 Table_4.xlsx. 2020,

135 Image_1.TIFF. 2019,

134 Image_2.TIFF. 2019,

133 Image_3.TIFF. 2019,

132 Image_4.TIFF. 2019,

131 Table_1.DOCX. 2019,

130 Table_2.DOCX. 2019,

129 Table_3.DOCX. 2019,

128 Table_4.DOCX. 2019,

127 Data_Sheet_1.FASTA. 2018,

126 Data_Sheet_2.ZIP. 2018,

125 Image_1.PDF. 2018,

124 Image_2.PDF. 2018,

123 Image_3.pdf. 2018,

122 Table_1.DOCX. 2018,

121 Table_2.DOCX. 2018,

120 Table_3.xlsx. 2018,

119 Table_4.docx. 2018,

118 Table_5.xls. 2018,

117 Data_Sheet_1.pdf. 2019,

116 The first nation-wide surveillance of carbapenem resistant Enterobacterales in the United Arab Emirates - increased association of Klebsiella pneumoniae CC14 clone with Emirati patients.. 2022,

○

- 115 Kinetics of the Interaction of Colistin with Live *Escherichia coli* Cells by the Bioluminescence Method. **2022**, 77, 42-47 ○
- 114 Detection of Antimicrobial Resistance, Pathogenicity, and Virulence Potentials of Non-Typhoidal *Salmonella* Isolates at the Yaounde Abattoir Using Whole-Genome Sequencing Technique. **2022**, 11, 502 ○
- 113 Microbial Resistance to Antibiotics and Effective Antibiotherapy. **2022**, 10, 1121 ○
- 112 Assessment of bacteriophage-encoded endolysin as a potent antimicrobial agent against antibiotic-resistant *Salmonella Typhimurium*.. **2022**, 105576 ○
- 111 Lipid A Structural Determination from a Single Colony.. **2022**, ○
- 110 Lipopolysaccharide-mediated resistance to host antimicrobial peptides and hemocyte-derived reactive-oxygen species are the major *Providencia alcalifaciens* virulence factors in *Drosophila melanogaster*. 1
- 109 Rescuing humanity by antimicrobial peptides against colistin-resistant bacteria. ○
- 108 A prospective matched case-control study on the genomic epidemiology of colistin-resistant Enterobacterales from Dutch patients. **2022**, 2, ○
- 107 Resistance mechanisms in Gram-negative bacteria. **2022**, 1
- 106 Promising *Acinetobacter baumannii* Vaccine Candidates and Drug Targets in Recent Years. 13, ○
- 105 New tools to mitigate drug resistance in Enterobacteriaceae [*Escherichia coli* and *Klebsiella pneumoniae*]. 1-20 ○
- 104 High occurrence of colistin- and multidrug-resistant strains carrying *mcr-1* or an underestimated *mcr-1.26* allelic variant along a large Brazilian river. **2022**, ○
- 103 6-Bromo-2-naphthol from *Silene armeria* extract sensitizes *Acinetobacter baumannii* strains to polymyxin. **2022**, 12, ○
- 102 *Vibrio cholerae* senses human enteric α -Defensin 5 through a CarSR two-component system to promote bacterial pathogenicity. **2022**, 5, ○
- 101 An Update of Mobile Colistin Resistance in Non-Fermentative Gram-Negative Bacilli. 12, 1
- 100 Nosocomial Outbreak of Extensively Drug-Resistant (Polymyxin B and Carbapenem) *Klebsiella pneumoniae* in a Collapsed University Hospital Due to COVID-19 Pandemic. **2022**, 11, 814 1
- 99 Transmissibility and Persistence of the Plasmid-Borne Mobile Colistin Resistance Gene, *mcr-1*, Harbored in Poultry-Associated *E. coli*. **2022**, 11, 774 ○
- 98 Mobile Colistin Resistance (*mcr*) Genes in Cats and Dogs and Their Zoonotic Transmission Risks. **2022**, 11, 698 1

97	Worldwide Prevalence of mcr-mediated Colistin-Resistance Escherichia coli in Isolates of Clinical Samples, Healthy Humans, and Livestock. A Systematic Review and Meta-Analysis. 2022 , 11, 659	2
96	Detection of Colistin-Resistant Gram-Negative Bacteria from Water Parks and Wastewater in Marseille, France.	
95	Detection of different colistin resistance mechanisms among multidrug resistant Klebsiella pneumoniae isolates in Bulgaria. 2022 ,	1
94	Antibacterial activity of essential oils for combating colistin-resistant bacteria.	1
93	Polymyxin Resistance in Clinical Isolates of K. pneumoniae in Brazil: Update on Molecular Mechanisms, Clonal Dissemination and Relationship With KPC-Producing Strains. 12,	1
92	An Intelligent Strategy with All-Atom Molecular Dynamics Simulations for the Design of Lipopeptides against Multidrug-Resistant Pseudomonas aeruginosa.	1
91	Structure-activity relationship studies of [1,2,5]oxadiazolo[3,4-b]pyrazine-containing polymyxin-selective resistance-modifying agents. 2022 , 72, 128878	
90	Constitutive Phenotypic Modification of Lipid A in Clinical Acinetobacter baumannii Isolates.	
89	Chlorhexidine Promotes Psl Expression in Pseudomonas aeruginosa That Enhances Cell Aggregation with Preserved Pathogenicity Demonstrates an Adaptation against Antiseptic. 2022 , 23, 8308	2
88	Global Spread of MCR-Producing Salmonella enterica Isolates. 2022 , 11, 998	0
87	Synergistic Antibacterial Activity of Green Synthesized Silver Nanomaterials with Colistin Antibiotic against Multidrug-Resistant Bacterial Pathogens. 2022 , 12, 1057	3
86	The membrane-active polyaminoisoprenyl compound NV716 re-sensitizes Pseudomonas aeruginosa to antibiotics and reduces bacterial virulence. 2022 , 5,	0
85	Molecular characterisation of Acinetobacter baumannii isolates from bloodstream infections in a tertiary-level hospital in South Africa. 13,	1
84	Prediction of Tissue Exposures of Meropenem, Colistin, and Sulbactam in Pediatrics Using Physiologically Based Pharmacokinetic Modeling.	0
83	The Plethora of Resistance Mechanisms in Pseudomonas aeruginosa: Transcriptome Analysis Reveals a Potential Role of Lipopolysaccharide Pathway Proteins to Novel β -lactam/ β -lactamase Inhibitor Combinations. 2022 ,	1
82	Colistin Resistance Among Multi-Drug Resistant Gram-Negative Bacterial Isolates From Different Clinical Samples of ICU Patients: Prevalence and Clinical Outcomes. 2022 ,	
81	Thymol as an Adjuvant to Restore Antibiotic Efficacy and Reduce Antimicrobial Resistance and Virulence Gene Expression in Enterotoxigenic Escherichia coli Strains. 2022 , 11, 1073	0
80	Overexpression profiling reveals cellular requirements in context of genetic backgrounds and environments.	

- 79 Naringenin restores colistin activation against colistin-resistant gram-negative bacteria in vitro and in vivo. 13, 0
- 78 BaeR overexpression enhances the susceptibility of *acrB* deleted *Salmonella enterica* serovar Typhimurium to polymyxin. **2022**, 274, 109552 0
- 77 Spatiotemporal Investigation of Antibiotic Resistance in the Urban Water Cycle Influenced by Environmental and Anthropogenic Activity. 0
- 76 Highly Sensitive and Specific Detection of Mobilized Colistin Resistance Gene *mcr-1* by CRISPR-Based Platform. 0
- 75 First Belgian Report of Ertapenem Resistance in an ST11 *Klebsiella Pneumoniae* Strain Isolated from a Dog Carrying *blaSCO-1* and *blaDHA-1* Combined with Permeability Defects. **2022**, 11, 1253 0
- 74 Lipopolysaccharide -mediated resistance to host antimicrobial peptides and hemocyte-derived reactive-oxygen species are the major *Providencia alcalifaciens* virulence factors in *Drosophila melanogaster*. **2022**, 18, e1010825 0
- 73 Preferential Selection of Low-Frequency, Lipopolysaccharide-Modified, Colistin-Resistant Mutants with a Combination of Antimicrobials in *Acinetobacter baumannii*. 2
- 72 *MgrB* Mutations and Altered Cell Permeability in Colistin Resistance in *Klebsiella pneumoniae*. **2022**, 11, 2995 1
- 71 Epidemiological characteristics an outbreak of ST11 multidrug-resistant and hypervirulent *Klebsiella pneumoniae* in Anhui, China. 13, 0
- 70 Causes of polymyxin treatment failure and new derivatives to fill the gap. **2022**, 75, 593-609 0
- 69 Pharmacodynamics of colistin resistance in carbapenemase-producing *Klebsiella pneumoniae*: the double-edged sword of heteroresistance and adaptive resistance. **2022**, 71, 0
- 68 More than *mcr*: Canonical Plasmid- and Transposon-Encoded Mobilized Colistin Resistance (*mcr*) Genes Represent a Subset of Phosphoethanolamine Transferases. 0
- 67 Calcium Potentiated Carbapenem Effectiveness Against Resistant *Enterobacter* Species. **2022**, 15, 117863612211337 0
- 66 Molecular Screening of Clinical Multidrug-Resistant Gram-Negative Bacteria Shows Endemicity of Carbapenemases, Coexistence of Multiple Carbapenemases, and Rarity of *mcr* in South Africa. 0
- 65 The variants of polymyxin susceptibility in different species of genus *Aeromonas*. 13, 0
- 64 Potential Role of Lysine Acetylation in Antibiotic Resistance of *Escherichia coli*. 0
- 63 Characteristics of the plasmid-mediated colistin-resistance gene *mcr-1* in *Escherichia coli* isolated from a veterinary hospital in Shanghai. 13, 0
- 62 Multidrug-Resistant High-Risk *Escherichia coli* and *Klebsiella pneumoniae* Clonal Lineages Occur in Black-Headed Gulls from Two Conservation Islands in Germany. **2022**, 11, 1357 0

61	Synergistic Membrane Disturbance Improves the Antibacterial Performance of Polymyxin B. 2022 , 14, 4316	0
60	Molecular Epidemiology of mcr-1-Positive Escherichia coli and Klebsiella pneumoniae Isolates: Results from Russian Sentinel Surveillance (2013-2018). 2022 , 10, 2034	1
59	Effects of amikacin, polymyxin-B, and sulbactam combination on the pharmacodynamic indices of mutant selection against multi-drug resistant Acinetobacter baumannii. 13,	1
58	Strategies to combat antimicrobial resistance in Indian scenario. 2022 , 91,	0
57	Genomic Characterization of Colistin-Resistant Isolates from the King Fahad Medical City, Kingdom of Saudi Arabia. 2022 , 11, 1597	0
56	Mechanisms and Detection of Antimicrobial Resistance. 2023 , 1506-1516.e4	0
55	Proteus, Providencia, and Morganella Species. 2023 , 852-853.e1	0
54	6-Bromoindirubin-3'-oxime derivatives are highly active colistin adjuvants against Klebsiella pneumoniae.	0
53	Antimicrobial Resistance and Virulence of Escherichia coli in the Purview of Public Health Monitoring.	0
52	Screening of colistin-resistant bacteria in livestock animals from France. 2022 , 53,	0
51	Efflux-mediated tolerance to cationic biocides, a cause for concern?. 2022 , 168,	0
50	The role of pmrCAB genes in colistin-resistant Acinetobacter baumannii. 2022 , 12,	0
49	Naringenin Microsphere as a Novel Adjuvant Reverses Colistin Resistance via Various Strategies against Multidrug-Resistant Klebsiella pneumoniae Infection.	0
48	Genomic islands and their role in fitness traits of two key sepsis-causing bacterial pathogens.	0
47	2-Aminoimidazole Analogs Target PhoP Altering DNA Binding Activity and Affect Outer Membrane Stability in Gram-Negative Bacteria. 2022 , 61, 2948-2960	0
46	Identification of combinatorial colistin resistance mutations in Shewanella algae.	0
45	Resveratrol Increases Sensitivity of Clinical Colistin-Resistant Pseudomonas aeruginosa to Colistin In Vitro and In Vivo.	1
44	Colistin Resistance and Management of Drug Resistant Infections. 2022 , 2022, 1-10	0

- 43 Modified Drug-Susceptibility Testing and Screening Culture Agar for Colistin-Susceptible Enterobacteriaceae Isolates Harboring a Mobilized Colistin Resistance Gene *mcr-9*. **2022**, 60, 0
- 42 Antibiotic Susceptibility Testing with Raman Biosensing. **2022**, 11, 1812 0
- 41 Detection of *mcr-1*-mediated resistance to polymyxins in Enterobacterales using colistin disk chelator application. **2022**, 24, 254-260 0
- 40 Resolving colistin resistance and heteroresistance in *Enterobacter* species. **2023**, 14, 0
- 39 Colistin: From the shadows to a One Health approach for addressing antimicrobial resistance. **2023**, 106713 0
- 38 Colistin potentiation in multidrug-resistant *Acinetobacter baumannii* by a non-cytotoxic guanidine derivative of silver. 13, 0
- 37 Comparative Proteomics of Outer Membrane Vesicles from Polymyxin-Susceptible and Extremely Drug-Resistant *Klebsiella pneumoniae*. 0
- 36 Discovery and Characterization of Polymyxin-Resistance Genes *pmrE* and *pmrF* from Sediment and Seawater Microbiome. 0
- 35 Comparative genomics and molecular epidemiology of colistin-resistant *Acinetobacter baumannii*. **2023**, 21, 574-585 3
- 34 *Serratia marcescens* antibiotic resistance mechanisms of an opportunistic pathogen: a literature review. 11, e14399 1
- 33 Re-sensitization of Multidrug-Resistant and Colistin-Resistant Gram-Negative Bacteria to Colistin by Povarov/Doebner-Derived Compounds. **2023**, 9, 283-295 0
- 32 Interaction of Tryptophan- and Arginine-Rich Antimicrobial Peptide with *E. coli* Outer Membrane: A Molecular Simulation Approach. **2023**, 24, 2005 1
- 31 Bacterial pneumonia associated with multidrug-resistant Gram-negative pathogens: Understanding epidemiology, resistance patterns, and implications with COVID-19. 12, 92 0
- 30 Genomic Characteristics and Phylogenetic Analyses of a Multiple Drug-Resistant *Klebsiella pneumoniae* Harboring Plasmid-Mediated MCR-1 Isolated from Taiñn City, China. **2023**, 12, 221 0
- 29 Critical role of the RpoE stress response pathway in polymyxin resistance of *Escherichia coli*. 0
- 28 Regulatory Landscape of the *Pseudomonas aeruginosa* Phosphoethanolamine Transferase Gene *eptA* in the Context of Colistin Resistance. **2023**, 12, 200 0
- 27 Antimicrobial activities of nanomaterials. **2023**, 127-148 0
- 26 *Escherichia coli* B-strains are intrinsically resistant to colistin and not suitable for characterization and identification of *mcr* genes. 0

- 25 Lipopolysaccharide structure modulates cationic biocide susceptibility and crystalline biofilm formation in *Proteus mirabilis*. 14, ○
- 24 The menace of colistin resistance across globe: Obstacles and opportunities in curbing its spread. **2023**, 270, 127316 ○
- 23 Emergence of colistin-resistant *Acinetobacter modestus* harbouring the intrinsic phosphoethanolamine transferase EptA. **2023**, 33, 101-108 ○
- 22 Physiologically-based pharmacokinetic modeling to inform dosing regimens and routes of administration of rifampicin and colistin combination against *Acinetobacter baumannii*. **2023**, 185, 106443 ○
- 21 A whole cell-based Matrix-assisted laser desorption/ionization mass spectrometry lipidomic assay for the discovery of compounds that target lipid a modifications. 14, ○
- 20 In vitro activity of riparin III in combination with antimicrobials against multidrug-resistant clinical isolates of *Staphylococcus aureus* and *Acinetobacter baumannii*. **2023**, 3, 100414 ○
- 19 Carbonyl Cyanide 3-Chloro Phenyl Hydrazone (CCCP) Restores the Colistin Sensitivity in *Brucella intermedia*. **2023**, 24, 2106 ○
- 18 Within-host resistance evolution of a fatal ST11 hypervirulent carbapenem-resistant *Klebsiella pneumoniae*. **2023**, 61, 106747 ○
- 17 Identification of a novel adjuvant loperamide that enhances the antibacterial activity of colistin against MCR-1-positive pathogens in vitro/vivo. **2023**, 76, ○
- 16 Antimicrobial Activity of an Fmoc-Plantaricin 149 Derivative Peptide against Multidrug-Resistant Bacteria. **2023**, 12, 391 ○
- 15 Chinese consensus guidelines for therapeutic drug monitoring of polymyxin B, endorsed by the Infection and Chemotherapy Committee of the Shanghai Medical Association and the Therapeutic Drug Monitoring Committee of the Chinese Pharmacological Society. **2023**, 24, 130-142 ○
- 14 Evaluation of Early Reading of Broth Microdilution Technique for Polymyxin B. **2023**, 29, 59-64 ○
- 13 Colistin Resistance in *Acinetobacter baumannii*: Molecular Mechanisms and Epidemiology. **2023**, 12, 516 ○
- 12 The European Union Summary Report on Antimicrobial Resistance in zoonotic and indicator bacteria from humans, animals and food in 2020/2021. **2023**, 21, ○
- 11 Genetic characteristic of coexisting of mcr-1 and blaNDM-5 in *Escherichia coli* isolates from lesion-bearing animal organs. 14, ○
- 10 In vivo adaptive antimicrobial resistance in *Klebsiella pneumoniae* during antibiotic therapy. 14, ○
- 9 The combination effect of meropenem/sulbactam/polymyxin-B on the pharmacodynamic parameters for mutant selection windows against carbapenem-resistant *Acinetobacter baumannii*. 13, ○
- 8 Comparative Genomic Analysis of Virulent *Vibrio (Listonella) anguillarum* Serotypes Revealed Genetic Diversity and Genomic Signatures in the O-Antigen Biosynthesis Gene Cluster. **2023**, 11, 792 ○

- 7 Antibiotics and Bacterial Resistance: A Short Story of an Endless Arms Race. **2023**, 24, 5777 ○
- 6 Unrecognized Potent Activities of Colistin Against Clinically Important mcr+ Enterobacteriaceae Revealed in Synergy with Host Immunity. ○
- 5 Two-site study on performances of a commercially available MALDI-TOF MS-based assay for the detection of colistin resistance in *Escherichia coli*. ○
- 4 Cross-talk between QseBC and PmrAB two-component systems is crucial for regulation of motility and colistin resistance in Enteropathogenic *Escherichia coli*. ○
- 3 Outbreak report of polymyxin-carbapenem-resistant *Klebsiella pneumoniae* causing untreatable infections evidenced by synergy tests and bacterial genomes. **2023**, 13, ○
- 2 A Single Residue within the MCR-1 Protein Confers Anticipatory Resilience. ○
- 1 Identification of combinatorial mutations associated with colistin resistance in *Shewanella algae*. **2023**, 105143 ○