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antiSMASH 5.0: updates to the secondary metabolite genome mining pipeline

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1408	sp. nov. and sp. nov., isolated from human faeces. <b>2021</b> , 71,	О
1407	Dumulmycin, an Antitubercular Bicyclic Macrolide from a Riverine Sediment-Derived sp. <b>2021</b> , 23, 3359-3363	6
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1400	Comparative Genomics Analysis of Keratin-Degrading Species Reveals Their Keratinolytic Potential for Secondary Metabolite Production. <b>2021</b> , 9,	O
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1246	Diploidy within a Haploid Genus of Entomopathogenic Fungi. <b>2021</b> , 13,	1
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1244	Synthetic biology-inspired strategies and tools for engineering of microbial natural product biosynthetic pathways. <b>2021</b> , 49, 107759	6
1243	Antifungal potential against Sclerotinia sclerotiorum (Lib.) de Bary and plant growth promoting abilities of Bacillus isolates from canola (Brassica napus L.) roots. <b>2021</b> , 248, 126754	3
1242	Chemical interplay and complementary adaptative strategies toggle bacterial antagonism and co-existence. <b>2021</b> , 36, 109449	2
1241	sp. nov. and sp. nov., two new members of the family. <b>2021</b> , 71,	1
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1239	Discovery of anti-infective adipostatins through bioactivity-guided isolation and heterologous expression of a type III polyketide synthase. <b>2021</b> , 112, 104925	1
1238	Discovery and Characterization of Epemicins A and B, New 30-Membered Macrolides from sp. CA-103260. <b>2021</b> , 16, 1456-1468	2
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1232	Mining and Biosynthesis of Bioactive Lanthipeptides From Microorganisms. <b>2021</b> , 9, 692466	1
1231	Complete Genome Sequence of Pantoea agglomerans ASB05 Using Illumina and PacBio Sequencing. <b>2021</b> , 10, e0050121	1

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1227	Draft Genome Sequences of the Three Strains AB1, ST3, and ZL223. <b>2021</b> , 10, e0045121	O
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1205	Lactic Acid Bacteria Diversity and Characterization of Probiotic Candidates in Fermented Meats. <b>2021</b> , 10,	4
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1196	Whole genome sequence data of strain B28A, isolated from Marine Water in India. <b>2021</b> , 37, 107240	
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1194	Co-occurrence of linear and cyclic pelgipeptins in broth cultures of Paenibacillus elgii AC13. <b>2021</b> , 52, 1825-1833	1
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1189	Biology and applications of co-produced, synergistic antimicrobials from environmental bacteria. <b>2021</b> , 6, 1118-1128	5
1188	Genome assembly and annotation of Photorhabdus heterorhabditis strain ETL reveals genetic features involved in pathogenicity with its associated entomopathogenic nematode and anti-host effectors with biocontrol potential applications. <b>2021</b> , 795, 145780	o
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1091	Computational Applications in Secondary Metabolite Discovery (CAiSMD): an online workshop. <b>2021</b> , 13, 64		1
1090	Metagenomic Insights Into the Microbial Iron Cycle of Subseafloor Habitats. <b>2021</b> , 12, 667944		O
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1083	A new species of cryptic cyanobacteria isolated from the epidermis of a bottlenose dolphin and as a bioaerosol. 1-16	O
1082	High-Quality Complete Genome Resource of Plant-Pathogenic Bacterium IPO 2019, Isolated from. <b>2021</b> , 34, 1088-1092	0
1081	The Structure of Cyclodecatriene Collinolactone, its Biosynthesis, and Semisynthetic Analogues: Effects of Monoastral Phenotype and Protection from Intracellular Oxidative Stress. <b>2021</b> , 60, 23212-23216	3
1080	Plant growth promoting endophyte Burkholderia contaminans NZ antagonizes phytopathogen Macrophomina phaseolina through melanin synthesis and pyrrolnitrin inhibition. <b>2021</b> , 16, e0257863	4
1079	Die Struktur des Cyclodecatriens Collinolacton, seine Biosynthese und semisynthetische Derivate: monopolare Spindeln und Schutz vor intrazelluliem oxidativem Stress. <b>2021</b> , 133, 23399	
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1077	Genomic diversity of Serratia proteamaculans and Serratia liquefaciens predominant in seafood products and spoilage potential analyses. <b>2021</b> , 354, 109326	O
1076	Sesquiterpenoids and their quaternary ammonium hybrids from the mycelium of mushroom Stereum hirsutum by medium optimization. <b>2021</b> , 189, 112852	3
1075	Pan-Genome of the Genus and Prioritization of Biosynthetic Gene Clusters With Potential to Produce Antibiotic Compounds. <b>2021</b> , 12, 677558	2
1074	A Conserved Nonribosomal Peptide Synthetase in Produces Citrulline-Functionalized Lipopeptides. <b>2021</b> , 84, 2692-2699	0
1073	Echinicola salinicaeni sp. nov., a novel bacterium isolated from saltern mud. <b>2021</b> , 114, 1915-1924	1
1072	Bioprospecting Trichoderma: A Systematic Roadmap to Screen Genomes and Natural Products for Biocontrol Applications. <b>2021</b> , 2,	3
1071	Phenogenomic Characterization of a Newly Domesticated and Novel Species from the Genus. <b>2021</b> , 87, e0132721	
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1069	sp. nov., a novel urea-hydrolysing bacterium isolated from the roots of. <b>2021</b> , 71,	O

1068	Complete Genomic Data of Pantoea ananatis Strain TZ39 Associated with New Bacterial Blight of Rice in China. <b>2021</b> ,	
1067	Integrated omics approaches for deciphering antifungal metabolites produced by a novel Bacillus species, B. cabrialesii TE3, against the spot blotch disease of wheat (Triticum turgidum L. subsp. durum). <b>2021</b> , 251, 126826	5
1066	Strain-level multiomics analysis reveals significant variation in cheeses from different regions. <b>2021</b> , 151, 112043	2
1065	Description and functional testing of four species of the novel phototrophic genus Chioneia gen. nov., isolated from different East Antarctic environments. <b>2021</b> , 44, 126250	O
1064	Sequencing of non-virulent strains of Fusarium fujikuroi reveals genes putatively involved in bakanae disease of rice. <b>2021</b> , 156, 103622	1
1063	Genomic and in silico protein structural analyses provide insights into marine polysaccharide-degrading enzymes in the sponge-derived Pseudoalteromonas sp. PA2MD11. <b>2021</b> , 191, 973-995	O
1062	Nonribosomal peptide synthetases and nonribosomal cyanopeptides synthesis in Microcystis: A comparative genomics study. <b>2021</b> , 59, 102432	О
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1059	Genomic insights into the biosynthesis and physiology of the cyanobacterial neurotoxin 2,4-diaminobutanoic acid (2,4-DAB). <b>2021</b> , 192, 112953	1
1058	The bacterial phylum Planctomycetes as novel source for bioactive small molecules. <b>2021</b> , 53, 107818	2
1057	Functional annotation unravels probiotic properties of a poultry isolate, Bacillus velezensis CGS1.1. <b>2022</b> , 153, 112471	1
1056	Complete genome sequence of lovastatin producer Aspergillus terreus ATCC 20542 and evaluation of genomic diversity among A. terreus strains. <b>2021</b> , 105, 1615-1627	О
1055	Bacillus subtilis-based microbial cell factories. <b>2021</b> , 139-164	
1054	sp. nov., isolated from deep sea water. <b>2021</b> , 71,	1
1053	Specialized Metabolites Reveal Evolutionary History and Geographic Dispersion of a Multilateral Symbiosis. <b>2021</b> , 7, 292-299	7
1052	Screening for Microbial Metal-Chelating Siderophores for the Removal of Metal Ions from Solutions. <b>2021</b> , 9,	3
1051	Efflux identification and engineering for ansamitocin P-3 production in Actinosynnema pretiosum. <b>2021</b> , 105, 695-706	3

1050	Functional Analysis and Genome Mining Reveal High Potential of Biocontrol and Plant Growth Promotion in Nodule-Inhabiting Bacteria Within Complex. <b>2020</b> , 11, 618601	17
1049	Systems and synthetic biology to elucidate secondary metabolite biosynthetic gene clusters encoded in genomes. <b>2021</b> , 38, 1330-1361	11
1048	Antimicrobial activity screening of rhizosphere soil bacteria from tomato and genome-based analysis of their antimicrobial biosynthetic potential. <b>2021</b> , 22, 29	9
1047	Bioactivity Screening and Gene-Trait Matching across Marine Sponge-Associated Bacteria. <b>2021</b> , 19,	4
1046	Description of Cohnella zeiphila sp. nov., a bacterium isolated from maize callus cultures. <b>2021</b> , 114, 37-44	О
1045	Revised structural assignment of azalomycins based on genomic and chemical analysis. <b>2021</b> , 8, 4791-4798	2
1044	Mechanisms of action of ribosomally synthesized and posttranslationally modified peptides (RiPPs). <b>2021</b> , 48,	11
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1036	Biosynthesis of depsipeptides, or Depsi: The peptides with varied generations. <b>2020</b> , 29, 2316-2347	5
1035	Shimazuella alba sp. nov. isolated from desert soil and emended description of the genus Shimazuella Park et al. 2007. <b>2020</b> , 202, 1831-1838	2
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1031	Complete genome sequence analysis of a strain Lactobacillus pentosus ZFM94 and its probiotic characteristics. <b>2020</b> , 112, 3142-3149	8
1030	Discovery of Venturicidin Congeners and Identification of the Biosynthetic Gene Cluster from sp. NRRL S-4. <b>2021</b> , 84, 110-119	4
1029	Biosynthesis of the Nuclear Factor of Activated T Cells Inhibitor NFAT-133 in. <b>2020</b> , 15, 3217-3226	4
1028	Genome-scale determination of 5🛘 and 3ឋ boundaries of RNA transcripts in Streptomyces genomes. <b>2020</b> , 7, 436	4
1027	sp. nov., isolated from roots of var. Valenton, and reclassification of as comb. nov. <b>2019</b> , 69, 2884-2891	1
1026	sp. nov., a novel psychrophilic bacterium isolated from Arctic soil. <b>2020</b> , 70, 44-50	2
1025	Polyphasic classification of strains isolated from the Karakum Desert and description of sp. nov., sp. nov., sp. nov., and sp. nov. <b>2020</b> , 70, 636-647	10
1024	sp. nov., isolated from soil. <b>2020</b> , 70, 1042-1047	1
1023	sp. nov., a bacterium isolated from Arctic marine sediment. <b>2020</b> , 70, 2072-2078	2
	sp. nov., a bacterium isolated from Arctic marine sediment. <b>2020</b> , 70, 2072-2078  sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. <b>2020</b> , 70, 2269-2280	2
1022		
1022	sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. <b>2020</b> , 70, 2269-2280	
1022	sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. <b>2020</b> , 70, 2269-2280 sp. nov., isolated from cool temperate forest soil. <b>2020</b> , 70, 2509-2514  Nine novel psychrotolerant species of the genus isolated from Arctic soil with potential antioxidant	2
1022 1021 1020	sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. <b>2020</b> , 70, 2269-2280  sp. nov., isolated from cool temperate forest soil. <b>2020</b> , 70, 2509-2514  Nine novel psychrotolerant species of the genus isolated from Arctic soil with potential antioxidant activities. <b>2020</b> , 70, 2537-2553	2 4
1022 1021 1020	sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. 2020, 70, 2269-2280  sp. nov., isolated from cool temperate forest soil. 2020, 70, 2509-2514  Nine novel psychrotolerant species of the genus isolated from Arctic soil with potential antioxidant activities. 2020, 70, 2537-2553  sp. nov., a new member of isolated from Chilika lagoon. 2020, 70, 2616-2623	2 4 1
1022 1021 1020 1019 1018	sp. nov., sp. nov., and sp. nov., novel psychrophilic bacteria isolated from Arctic soil. 2020, 70, 2269-2280  sp. nov., isolated from cool temperate forest soil. 2020, 70, 2509-2514  Nine novel psychrotolerant species of the genus isolated from Arctic soil with potential antioxidant activities. 2020, 70, 2537-2553  sp. nov., a new member of isolated from Chilika lagoon. 2020, 70, 2616-2623  sp. nov., a bacterium isolated from Chukotka hot spring, Arctic region, Russia. 2020, 70, 2726-2731  sp. nov., isolated from desert soil and reclassification of as a later heterotypic synonym of. 2020,	2 4 1 13 3

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1005 sp. nov., isolated from hazelnut orchard soil. <b>2020</b> , 70, 4791-4797	O
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985	Broad geographical and ecological diversity from similar genomic toolkits in the ascomycete genus Tetracladium.	3
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983	Integration of machine learning and pan-genomics expands the biosynthetic landscape of RiPP natural products.	3
982	A large accessory genome, high recombination rates, and selection of secondary metabolite genes help maintain global distribution and broad host range of the fungal plant pathogen Claviceps purpurea.	1
981	Large scale metagenome assembly reveals novel animal-associated microbial genomes, biosynthetic gene clusters, and other genetic diversity.	2
980	Co-Occurrence of Enzyme Domains Guides the Discovery of an Oxazolone Synthetase.	4
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976	BiG-SLiCE: A Highly Scalable Tool Maps the Diversity of 1.2 Million Biosynthetic Gene Clusters.	6
975	Identification of trans-AT polyketide clusters in two marine bacteria reveals cryptic similarities between distinct symbiosis factors.	O
974	Phylogenetic analysis of the salinipostin Ebutyrolactone gene cluster uncovers new potential for bacterial signaling-molecule diversity.	1
973	Phylogenetic distribution of secondary metabolites in the Bacillus subtilis species complex.	1
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971	clinker & clustermap.js: Automatic generation of gene cluster comparison figures.	11
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969	Long read metagenomics, the next step?.	2
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	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities	
968	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities encountering a mix of alginate and pectin particles.	1
968 967	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities encountering a mix of alginate and pectin particles.  Comparative genomics provides insight into the function of broad-host range sponge symbionts.  BiG-MAP: an automated pipeline to profile metabolic gene cluster abundance and expression in	3
968 967 966	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities encountering a mix of alginate and pectin particles.  Comparative genomics provides insight into the function of broad-host range sponge symbionts.  BiG-MAP: an automated pipeline to profile metabolic gene cluster abundance and expression in microbiomes.	1 3 4
968 967 966 965	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities encountering a mix of alginate and pectin particles.  Comparative genomics provides insight into the function of broad-host range sponge symbionts.  BiG-MAP: an automated pipeline to profile metabolic gene cluster abundance and expression in microbiomes.  Vertical inheritance governs biosynthetic gene cluster evolution and chemical diversification.	1 3 4 6
968 967 966 965 964	Sweet and magnetic: Succession and CAZyme expression of marine bacterial communities encountering a mix of alginate and pectin particles.  Comparative genomics provides insight into the function of broad-host range sponge symbionts.  BiG-MAP: an automated pipeline to profile metabolic gene cluster abundance and expression in microbiomes.  Vertical inheritance governs biosynthetic gene cluster evolution and chemical diversification.  Streptomyces endophytes promote the growth of Arabidopsis thaliana.	<ul><li>3</li><li>4</li><li>6</li><li>3</li></ul>

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949	Genome Sequence of Oxalobacter formigenes Strain SSYG-15. <b>2019</b> , 8,	1
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939	SeMPI 2.0-A Web Server for PKS and NRPS Predictions Combined with Metabolite Screening in Natural Product Databases. <b>2020</b> , 11,	7
938	Complete Genome Sequence of Ovine subsp. Strain JIII-386 (MAP-S/type III) and Its Comparison to MAP-S/type I, MAP-C, and Complex Genomes. <b>2020</b> , 9,	4
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924	Genome analysis of alginate synthesizing Pseudomonas aeruginosa strain SW1 isolated from degraded seaweeds. <b>2021</b> , 114, 2205-2217	1
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922	Ice nucleation in a Gram-positive bacterium isolated from precipitation depends on a polyketide synthase and non-ribosomal peptide synthetase. <b>2021</b> ,	O
921	Comparative Genomics and Transcriptomics Depict Marine Algicolous Arthrinium Species as Endosymbionts That Help Regulate Oxidative Stress in Brown Algae. <b>2021</b> , 8,	O
9 <b>2</b> 0	IMA Genome - F15: Draft genome assembly of Fusarium pilosicola, Meredithiella fracta, Niebla homalea, Pyrenophora teres hybrid WAC10721, and Teratosphaeria viscida. <b>2021</b> , 12, 30	2
919	Roseitranquillus sediminis gen. nov., sp. nov. a novel genus and species of the family Rhodobacteraceae, isolated from sediment of an Arctic fjord. <b>2021</b> , 114, 2147-2162	O
918	Annotating unknown species of urban microorganisms on a global scale unveils novel functional diversity and local environment association. <b>2021</b> , 207, 112183	О
917	The Discovery and Biosynthesis of Nicotinic Myxochelins from an sp. SDU34. <b>2021</b> , 84, 2744-2748	1
916	Description and genome analysis of Microvirga antarctica sp. nov., a novel pink-pigmented psychrotolerant bacterium isolated from Antarctic soil. <b>2021</b> , 114, 2219-2228	2
915	Nesterenkonia sedimenti sp. nov., isolated from marine sediment. <b>2021</b> , 203, 6287-6293	O
914	Haloferax litoreum sp. nov., Haloferax marinisediminis sp. nov., and Haloferax marinum sp. nov., low salt-tolerant haloarchaea isolated from seawater and sediment. <b>2021</b> , 114, 2065-2082	O
913	Nerpa: A Tool for Discovering Biosynthetic Gene Clusters of Bacterial Nonribosomal Peptides. <b>2021</b> , 11,	2
912	Microcella flavibacter sp. nov., isolated from marine sediment, and reclassification of Chryseoglobus frigidaquae, Chryseoglobus indicus, and Yonghaparkia alkaliphila as Microcella frigidaquae comb. nov., Microcella indica nom. nov., and Microcella alkalica nom. nov. <b>2021</b> , 114, 2133-2145	0
911	sp. nov., a carboxymethyl cellulose-hydrolysing bacterium isolated from coastal water. <b>2021</b> , 71,	O
910	Produces Piscibactin and Amphibactin and Both Siderophores Contribute Significantly to Virulence for Clams. <b>2021</b> , 11, 750567	O
909	Adaptation to Endophytic Lifestyle Through Genome Reduction by sp. SUK42. <b>2021</b> , 9, 740722	1
908	Evaluating the Distribution of Bacterial Natural Product Biosynthetic Genes across Lake Huron Sediment. <b>2021</b> , 16, 2623-2631	О
907	Transcriptome Comparison of Secondary Metabolite Biosynthesis Genes Expressed in Cultured and Lichenized Conditions of Cladonia rangiferina. <b>2021</b> , 13, 529	1

906	Genomic adaptation in the CAZyome and specialised metabolism of the plant-associated Streptomyces violaceusniger clade.	
905	Depside and Depsidone Synthesis in Lichenized Fungi Comes into Focus through a Genome-Wide Comparison of the Olivetoric Acid and Physodic Acid Chemotypes of. <b>2021</b> , 11,	5
904	Music of metagenomics-a review of its applications, analysis pipeline, and associated tools. 2021, 1	О
903	The Bioinformatics Virtual Coordination Network: An Open-Source and Interactive Learning Environment. <b>2021</b> , 6,	1
902	Genome Sequence Resource of Burkholderia glumae UAPB13.	
901	ThpacC Acts as a Positive Regulator of Homodimericin A Biosynthesis and Antifungal Activities of 3.9236. <b>2021</b> , 69, 12695-12704	O
900	Molecular basis of a bacterial-amphibian symbiosis revealed by comparative genomics, modeling, and functional testing. <b>2021</b> ,	2
899	sp. nov., isolated from marine sediment sand. <b>2021</b> , 71,	Ο
898	The Predatory Myxobacterium gen. nov. sp. nov. Showed Antifungal Activity and Bacteriolytic Property against Phytopathogens. <b>2021</b> , 9,	1
897	Transcriptomics Reveals the Putative Mycoparasitic Strategy of the Mushroom on Species of the Mushroom Genus. <b>2021</b> , 6, e0054421	2
896	Type S Non Ribosomal Peptide Synthetases for the rapid generation of tailor-made peptide libraries.	
895	Genome sequence data of L-17. <b>2021</b> , 39, 107505	
894	A supervised fingerprint-based strategy to connect natural product mass spectrometry fragmentation data to their biosynthetic gene clusters.	
893	Charting the complexity of the activated sludge microbiome through a hybrid sequencing strategy. <b>2021</b> , 9, 205	3
892	Genomic Features and Molecular Function of a Novel Stress-Tolerant Strain Isolated from an Extreme Environment. <b>2021</b> , 10,	1
891	Metagenomic Sequencing of Multiple Soil Horizons and Sites in Close Vicinity Revealed Novel Secondary Metabolite Diversity. <b>2021</b> , 6, e0101821	6
890	Bacillus velezensis T149-19 and Bacillus safensis T052-76 as Potential Biocontrol Agents against Foot Rot Disease in Sweet Potato. <b>2021</b> , 11, 1046	0
889	Genome assisted probiotic characterization and application of Bacillus velezensis ZBG17 as an alternative to antibiotic growth promoters in broiler chickens. <b>2021</b> , 113, 4061-4074	O

888	Saccharopolyspora karakumensis sp. nov., Saccharopolyspora elongata sp. nov., Saccharopolyspora aridisoli sp. nov., Saccharopolyspora terrae sp. nov. and their biotechnological potential revealed by genome analysis. <b>2021</b> , 44, 126270	1
887	A metabolomic study of vegetative incompatibility in Cryphonectria parasitica. <b>2021</b> , 157, 103633	
886	Molecular identification of Klebsiella pneumoniae and expression of immune genes in infected spotted gar Lepisosteus oculatus. <b>2021</b> , 119, 220-230	О
885	Whole Genome Sequence of Strain SMR5, Shown to Promote Growth in its Diatom Host. <b>2019</b> , 7, 60-63	2
884	NeuRiPP: Neural network identification of RiPP precursor peptides.	1
883	Genome rearrangements and megaplasmid loss in the filamentous bacteriumKitasatospora viridifaciensare associated with protoplast formation and regeneration.	
882	sp. nov. and sp. nov., two novel with antimicrobial activity isolated from lake sediment. <b>2019</b> , 71,	О
881	Comprehensive genome data analysis establishes a triple whammy of carbapenemases, ICEs and multiple clinically-relevant bacteria.	О
880	gen. nov. sp. nov., a member of the family with alginate-degradation activity, isolated from marine alga. <b>2019</b> , 71,	2
879	sp. nov., a carotenoid and flexirubin-type pigment producing species isolated from flooded paddy field. <b>2019</b> , 71,	1
878	sp. nov., isolated from humic soil on bird's nest fern ( L.). <b>2019</b> , 71,	2
877	Description of sp. nov., a cold-adapted bacterium isolated from Arctic soil. <b>2019</b> , 71,	1
876	Discovery of a polybrominated aromatic secondary metabolite from a planctomycete points at an ambivalent interaction with its macroalgae host.	
875	Complete Genome Sequence of Enterococcus faecalis Strain SGAir0397, Isolated from a Tropical Air Sample Collected in Singapore. <b>2019</b> , 8,	
874	Draft Genome Sequence of Teicoplanin-Producing Strain Actinoplanes teichomyceticus CPCC 203265. <b>2019</b> , 8,	О
873	Draft Genome Sequence of Vibrio cyclitrophicus NCT10V, Cultivated from the Microbiome of a Marine Copepod. <b>2019</b> , 8,	1
872	Genome Sequence of sp. UKPF54, a Plant Growth-Promoting Rhizobacterial Strain with NO-Mitigating Abilities, Isolated from Paddy Soil. <b>2020</b> , 9,	1
871	Commensal oralRothia mucilaginosaproduces enterobactin 🛭 metal chelating siderophore.	

870	gen. nov., sp. nov., isolated from soil in Fildes Peninsula, Antarctica. <b>2020</b> , 70, 1861-1867	1
869	Draft Genome Sequences of Four Microcystis aeruginosa Strains (NIES-3787, NIES-3804, NIES-3806, and NIES-3807) Isolated from Lake Kasumigaura, Japan. <b>2020</b> , 9,	1
868	Shared PKS modules in biosynthesis of synergistic laxaphycins.	
867	Genome Assembly of Azotobacter chroococcum Strain W5, a Free-Living Diazotroph Isolated from India. <b>2020</b> , 9,	
866	Chemical, Bioactivity, and Biosynthetic Screening of Epiphytic Fungus. <b>2020</b> , 25,	O
865	Assessing biosynthetic gene cluster diversity in a multipartite nutritional symbiosis between herbivorous turtle ants and conserved gut symbionts.	
864	Iron-meditated fungal starvation by lupine rhizosphere-associated and extremotolerant Streptomyces sp. S29 desferrioxamine production.	
863	Transporter genes in biosynthetic gene clusters predict metabolite characteristics and siderophore activity.	O
862	Elucidating the diversity and potential function of nonribosomal peptide and polyketide biosynthetic gene clusters in the root microbiome.	О
861	Isolation and characterization of Streptomyces bacteriophages and Streptomyces strains encoding biosynthetic arsenals: Streptomyces strains and phages for antibiotic discovery.	
860	Characteristics of Genome of Bacillus velezensis ONU 553 Strain Isolated from the Bottom Sediments of the Black Sea. <b>2020</b> , 82, 14-21	
859	Draft Genome Sequences of Two Strains, MZ03-37 and MZ03-48, Isolated from Lava Tube Speleothems. <b>2020</b> , 9,	1
858	Bioinformatic and Reactivity-Based Discovery of Linaridins.	
857	Comparative genomics analyses of lifestyle transitions at the origin of an invasive fungal pathogen in the genus Cryphonectria.	
856	A haplotype-phased genome of wheat stripe rust pathogen Puccinia striiformis f. sp. tritici, race PST-130 from the Western USA.	
855	gen. nov., sp. nov., a bacterium in the family isolated from seawater. <b>2020</b> , 70, 4562-4568	O
854	Bacterial-like nonribosomal peptide synthetases produce cyclopeptides in the zygomycetous fungusMortierella alpina.	О
853	Mutanofactin promotes bacterial adhesion and biofilm formation of cariogenic Streptococcus mutans.	O

852	Draft Genome Sequence of sp. Strain WMMC2535, a Marine Ascidian-Associated Bacterium. <b>2020</b> , 9,	
851	Opfi: A Python package for identifying gene clusters in large genomics and metagenomics data sets <b>2021</b> , 6,	O
850	Infection Process and Genome Assembly Provide Insights into the Pathogenic Mechanism of Destructive Mycoparasite with Host Specificity. <b>2021</b> , 7,	1
849	Identification, Characterization and Synthesis of Natural Parasitic Cysteine Protease Inhibitors [] More Potent Falcitidin Analogs.	
848	Activation and Identification of a Griseusin Cluster in sp. CA-256286 by Employing Transcriptional Regulators and Multi-Omics Methods. <b>2021</b> , 26,	1
847	Characterization and Antimicrobial Studies of Iturin-Like and Bogorol-Like Lipopeptides From spp. Strains GI9 and SKDU10. <b>2021</b> , 12, 729026	0
846	Resistance-guided mining of bacterial genotoxins defines a family of DNA glycosylases.	
845	A Multidisciplinary Approach to Unraveling the Natural Product Biosynthetic Potential of a Strain Collection Isolated from Leaf-Cutting Ants. <b>2021</b> , 9,	Ο
844	A non-reactive natural product precursor of the duocarmycin family has potent and selective antimalarial activity. <b>2021</b> ,	Ο
843	Complete Genome Analysis of Undecylprodigiosin Pigment Biosynthesizing Marine Species Displaying Potential Bioactive Applications. <b>2021</b> , 9,	1
842	Interaction Between Transcribing RNA Polymerase and Topoisomerase I Prevents R-loop Formation in E. coli.	Ο
841	HERMES: a molecular-formula-oriented method to target the metabolome. <b>2021</b> , 18, 1370-1376	3
840	M etagenomic insights into the microbial communities of inert and oligotrophic outdoor pier surfaces of a coastal city. <b>2021</b> , 9, 213	Ο
839	Top-down synthetic biology approach for titer improvement of clinically important antibiotic daptomycin in Streptomyces roseosporus. <b>2021</b> , 69, 40-49	4
838	The microbiome of a shell mound: ancient anthropogenic waste as a source of Streptomyces degrading recalcitrant polysaccharides. <b>2021</b> , 37, 210	
837	Complete Genome Sequence of Two Deep-Sea Isolates from Madeira Archipelago and Evaluation of Their Biosynthetic Potential. <b>2021</b> , 19,	O
836	Metabologenomics approach to the discovery of novel compounds from sp. GMR22 as anti-SARS-CoV-2 drugs. <b>2021</b> , 7, e08308	0
835	Sesbanimide R, a novel cytotoxic polyketide produced by magnetotactic bacteria.	

834	Understanding Thioamitide Biosynthesis Using Pathway Engineering and Untargeted Metabolomics.	1
833	Genomics- and Metabolomics-Based Investigation of the Deep-Sea Sediment-Derived Yeast, 50-3-19/20B. <b>2020</b> , 19,	5
832	Exometabolite Dynamics over Stationary Phase Reveal Strain-Specific Responses. 2020, 5,	1
831	Dynamics of the compartmentalized Streptomyces chromosome during metabolic differentiation.	
830	Metabolic potential of uncultured Antarctic soil bacteria revealed through long-read metagenomic sequencing.	1
829	Genome-based classification of gen. nov., sp. nov., isolated from a hot spring in Turkey, with reclassification of as comb. nov. and as comb. nov. <b>2020</b> , 70, 6418-6427	О
828	Metagenome-Assembled Genome Sequence of Dolichospermum circinale Strain Clear-D4, Assembled from a Harmful Cyanobacterial Bloom Enrichment Culture. <b>2020</b> , 9,	2
827	Vagococcus fluvialis isolation and sequencing from urine of healthy cattle. <b>2021</b> , 11,	2
826	Angucycline-like Aromatic Polyketide from a Novel Species Reveals Freshwater Snail as Underexplored Reservoir for Antibiotic-Producing Actinomycetes. <b>2020</b> , 10,	1
825	Genome sequence of A7, a marine-derived fungus with antibacterial activity. <b>2021</b> , 64, 719-733	О
824	A novel family of nonribosomal peptides modulate collective behavior in Pseudovibrio bacteria isolated from marine sponges.	
823	Exometabolites of endospore-forming bacteria of Bacillus genus identified by genomic-metabolomic profiling. <b>2020</b> , 92, 154-164	
822	Leaf Bleaching in Rice: A New Disease in Vietnam Caused by Methylobacterium indicum, Its Genomic Characterization and the Development of a Suitable Detection Technique. <b>2021</b> , 36,	
821	Comparative genomics and proposal of Streptomyces radicis sp. nov., an endophytic actinomycete from roots of plants in Thailand. <b>2022</b> , 254, 126889	
820	Polyketide-derived macrobrevins from marine macroalga-associated Bacillus amyloliquefaciens as promising antibacterial agents against pathogens causing nosocomial infections. <b>2022</b> , 193, 112983	4
819	Whole genome sequencing of an edible and medicinal mushroom, Russula griseocarnosa, and its association with mycorrhizal characteristics. <b>2022</b> , 808, 145996	1
818	Mining Natural Product Biosynthesis in Eukaryotic Algae. <b>2020</b> , 18,	3
817	Engineering Natural Product Biosynthetic Pathways to Produce Commodity and Specialty Chemicals. <b>2020</b> , 352-376	

816 Bioinformatics The Power of Integrated Platforms for Omics Mining. 2020, 211-221

815	In silico detection tools to identify fungal secondary metabolites and their biosynthetic gene clusters. <b>2020</b> , 23-35	
814	A genomic view of trophic and metabolic diversity in clade-specific Lamellodysidea sponge microbiomes.	
813	Isolation and genome sequencing of 14 Spongia sp. bacterial associates expands the taxonomic and functional breadth of the cultivatable marine sponge microbiome.	O
812	sp. nov., a starch-degrading bacterium isolated from marine sediment. <b>2020</b> , 70, 2008-2015	О
811	From iron to antibiotics: Identification of conserved bacterial-fungal interactions across diverse partners.	1
810	Investigation of a night soil compost psychrotrophic bacterium Glutamicibacter arilaitensis LJH19 for its safety, efficient hydrolytic and plant growth-promoting potential.	О
809	Bactericidal Effect of sp. nov., a Novel Species Against Reduces Disease Severity of Bacterial Leaf Streak of Rice. <b>2021</b> , 12, 759536	Ο
808	Genomic Insights Into New Species of the Genus Reveals Potential for New Osmoadaptative Strategies in Halophilic Archaea. <b>2021</b> , 12, 751746	1
807	Mining of Cyanobacterial Genomes Indicates Natural Product Biosynthetic Gene Clusters Located in Conjugative Plasmids. <b>2021</b> , 12, 684565	Ο
806	In Silico/In Vitro Strategies Leading to the Discovery of New Nonribosomal Peptide and Polyketide Antibiotics Active against Human Pathogens. <b>2021</b> , 9,	3
805	Metaproteomics reveals insights into microbial structure, interactions, and dynamic regulation in defined communities as they respond to environmental disturbance. <b>2021</b> , 21, 308	3
804	Down in the pond: Isolation and characterization of a new Serratia marcescens strain (LVF3) from the surface water near frog's lettuce (Groenlandia densa). <b>2021</b> , 16, e0259673	О
803	Heterologous production of a cyanobacterial bacteriocin with potent antibacterial activity. <b>2021</b> , 3, 281-281	1
802	Artificial intelligence-guided discovery of anticancer lead compounds from plants and associated microorganisms. <b>2021</b> ,	3
801	Proteome and strain analysis of cyanobacterium "Phormidium alkaliphilum" reveals traits for success in biotechnology. <b>2021</b> , 24, 103405	4
800	High-quality genome assembly and annotation resource of Botryosphaeria dothidea strain BDLA16-7, causing trunk canker disease on Chinese hickory. <b>2021</b> ,	1
799	Re-classification of strains and mining secondary metabolite biosynthetic gene clusters. <b>2021</b> , 24, 103410	

79 <sup>8</sup>	Bacterial marginolactones trigger formation of algal gloeocapsoids, protective aggregates on the verge of multicellularity. <b>2021</b> , 118,	О
797	Properties of sp. nov., a Kind of Novel Phosphate-Solubilizing Actinobacteria Inhabited in the Desert Biological Soil Crusts. <b>2021</b> , 12, 742798	1
796	Mapping the catalytic conformations of an assembly-line polyketide synthase module. <b>2021</b> , 374, 729-734	8
795	Comparative whole-genome approach to identify traits underlying microbial interactions.	О
794	Production of diverse beauveriolide analogs in closely related fungi: a rare case of fungal chemodiversity.	
793	Twists and turns of the salicylate catabolism in Aspergillus terreus.	
792	Distribution of Epsilon-Polylysine Synthetases in Coryneform Bacteria Isolated from Cheese and Human Skin.	
791	CRISPR-Based Transcriptional Activation Tool for Silent Genes in Filamentous Fungi.	
790	Genomics-accelerated discovery of diverse fungicidal bacteria.	
789	Metagenomics and quantitative stable isotope probing offer insights into metabolism of polycyclic aromatic hydrocarbons degraders in chronically polluted seawater.	
788	Aquisphaera. 1-7	
787	sp. nov., an endogenous actinomycete isolated from. <b>2020</b> , 70, 4883-4889	О
786	sp. nov., a N-fixing bacterium isolated from forest soil and emendation of the genus and the species and. <b>2020</b> , 70, 5312-5318	2
785	sp. nov., isolated from a Yellow River sediment sample. <b>2020</b> , 70, 5693-5700	1
784	One pathway, two cyclic pentapeptides: heterologous expression of BE-18257 A-C and pentaminomycins A-E fromStreptomyces cacaoiCA-170360.	
783	Convergent evolution of Streptomyces protease inhibitors involving a tRNA-mediated condensation-minus NRPS.	
782	Metabolomic investigation of the pseudouridimycin producer, a prolific streptomycete.	
781	Characterization and Engineering ofStreptomyces griseofuscusDSM 40191 as a Potential Host for Heterologous Expression of Biosynthetic Gene Clusters.	

780	Single-colony sequencing reveals phylosymbiosis, co-phylogeny, and horizontal gene transfer between the cyanobacterium Microcystis and its microbiome.	1
779	Automatic reconstruction of metabolic pathways from identified biosynthetic gene clusters.	
778	Draft Genome Sequence of the Toxic Freshwater Microcystis aeruginosa Strain PMC 728.11 (Cyanobacteria, Chroococcales). <b>2020</b> , 9,	O
777	A haplotype-phased genome of wheat stripe rust pathogen Puccinia striiformis f. sp. tritici, race PST-130 from the Western USA. <b>2020</b> , 15, e0238611	3
776	Full Issue PDF. <b>2021</b> , 5, 249-366	
775	Biocontrol applications of microbial metabolites. <b>2022</b> , 181-216	
774	Developing fungal heterologous expression platforms to explore and improve the production of natural products from fungal biodiversity. <b>2021</b> , 54, 107866	6
773	Full Issue PDF. <b>2021</b> , 34, 990-1092	
772	Genome and Analysis of the Probiotic Properties of a Bacterial Endophyte, Strain MHSD3. <b>2021</b> , 12, 672149	O
771	sp. nov., isolated from the root of in north-west PR China. <b>2021</b> , 71,	O
770	sp. nov., isolated from tidal mudflat. <b>2021</b> , 71,	O
769	Bioinformatics-Guided Expansion and Discovery of Graspetides. 2021,	3
768	Actinomadura graeca sp. nov.: A novel producer of the macrocyclic antibiotic zelkovamycin. <b>2021</b> , 16, e0260413	1
767	Genomic Organization of Streptomyces flavotricini NGL1 and Streptomyces erythrochromogenes HMS4 Reveals Differential Plant Beneficial Attributes and Laccase Production Capabilities. <b>2021</b> , 1	O
766	gen. nov., sp. nov., an algicidal bacterium against the ichthyotoxic dinoflagellate. <b>2021</b> , 71,	O
765	Isolation and characterization of tick-borne Roseomonas haemaphysalidis sp. nov. and rodent-borne Roseomonas marmotae sp. nov. <b>2021</b> , 1	1
764	Polycyclic Tetramate Macrolactams-A Group of Natural Bioactive Metallophores. <b>2021</b> , 9, 772858	О
763	Rausuquinone, a non-glycosylated pluramycin-class antibiotic from Rhodococcus. <b>2021</b> ,	1

762	Genome analysis suggests the bacterial family Acetobacteraceae is a source of undiscovered specialized metabolites. <b>2021</b> , 1	2
761	Comparative genomics of species from terrestrial and marine habitats <b>2021</b> , 2, 100087	О
760	sp. nov., isolated from Arctic tundra soil, and emended descriptions of , and. <b>2021</b> , 71,	2
759	sp. nov. and sp. nov., isolated from soil. <b>2021</b> , 71,	6
758	sp. nov. a novel species on the borderline of the genus. <b>2021</b> , 71,	0
757	Metagenomic sequencing-driven multidisciplinary approaches to shed light on the untapped microbial natural products. <b>2021</b> ,	
756	Deep-BGCpred: A unified deep learning genome-mining framework for biosynthetic gene cluster prediction.	
755	Pan-genome analysis identifies intersecting roles for specialized metabolites in potato pathogen inhibition. <b>2021</b> , 10,	4
754	Long-read metagenomics of soil communities reveals phylum-specific secondary metabolite dynamics. <b>2021</b> , 4, 1302	2
753	Whokaryote: distinguishing eukaryotic and prokaryotic contigs in metagenomes based on gene structure.	o
752	Ecological generalism drives hyperdiversity of secondary metabolite gene clusters in xylarialean endophytes. <b>2021</b> ,	3
751	Comparative genomics and pangenomics of vancomycin resistant and susceptible Enterococcus faecium from Irish hospitals across 20 years []	О
750	Genome-Guided Discovery of Natural Products through Multiplexed Low-Coverage Whole-Genome Sequencing of Soil Actinomycetes on Oxford Nanopore Flongle. <b>2021</b> , e0102021	0
749	sp. strain UY79, isolated from a root nodule of , displays a broad spectrum of antifungal activity. <b>2021</b> , AEM0164521	O
748	Acremopeptaibols A-F, 16-Residue Peptaibols from the Sponge-Derived sp. IMB18-086 Cultivated with Heat-Killed. <b>2021</b> , 84, 2990-3000	4
747	In Silico Analysis of PKS and NRPS Gene Clusters in Arisostatin- and Kosinostatin-Producers and Description of sp. nov <b>2021</b> , 10,	3
746	Synthaser: a CD-Search enabled Python toolkit for analysing domain architecture of fungal secondary metabolite megasynth(et)ases. <b>2021</b> , 8, 13	1
745	Draft Genome Sequence of Fusarium equiseti K3, a Fungal Species Isolated from Hexachlorocyclohexane-Contaminated Soil. <b>2021</b> , 10, e0088521	o

Lentzeacins A-E, New Bacterial-Derived 2,5- and 2,6-Disubstituted Pyrazines from a BGC-Rich Soil Bacterium sp. GA3-008. **2021**, 26,

743	Conservation of griseofulvin genes in the gsf gene cluster among fungal genomes. 2021,	1
742	Toward the Heterologous Biosynthesis of Plant Natural Products: Gene Discovery and Characterization. <b>2021</b> , 10, 2784-2795	2
741	Differences at Species Level and in Repertoires of Secondary Metabolite Biosynthetic Gene Clusters among Streptomyces coelicolor A3(2) and Type Strains of S. coelicolor and Its Taxonomic Neighbors. <b>2021</b> , 1, 573-585	2
740	Transcriptional profiles of a foliar fungal endophyte (Pestalotiopsis, Ascomycota) and its endohyphal bacterium (Luteibacter, Gammaproteobacteria) in co-culture support sulfur exchange and growth regulation.	0
739	Vertical Inheritance Facilitates Interspecies Diversification in Biosynthetic Gene Clusters and Specialized Metabolites. <b>2021</b> , e0270021	3
738	Enemy or ally: a genomic approach to elucidate the lifestyle of Phyllosticta citrichinaensis.	0
737	MBSA-MJ1 Increases Shoot Growth and Tissue Nutrient Concentration in Containerized Ornamentals Grown Under Low-Nutrient Conditions <b>2021</b> , 12, 788198	1
736	A Meta-Omics Analysis Unveils the Shift in Microbial Community Structures and Metabolomics Profiles in Mangrove Sediments Treated with a Selective Actinobacterial Isolation Procedure. <b>2021</b> , 26,	1
735	Isolation, Whole-Genome Sequencing, and Annotation of Three Unclassified Antibiotic-Producing Bacteria, Enterobacter sp. Strain RIT 637, Pseudomonas sp. Strain RIT 778, and sp. Strain RIT 780. <b>2021</b> , 10, e0086321	O
734	In vitro interaction network of a synthetic gut bacterial community. 2021,	5
733	Discovery of an Antarctic Ascidian-Associated Uncultivated with Antimelanoma Palmerolide Biosynthetic Potential. <b>2021</b> , e0075921	3
732	Evolutionary transition to the ectomycorrhizal habit in the genomes of a hyper-diverse lineage of mushroom-forming fungi. <b>2021</b> ,	О
731	Aerobiology from an Inactive Pyrite Mine: the Genome Sequence of the Airborne sp. Strain L5B5. <b>2021</b> , 10, e0102921	O
730	Full Issue PDF. <b>2021</b> , 5, 368-472	
729	Kaistella soli sp. nov., isolated from oil-contaminated experimental soil <b>2022</b> , 204, 118	1
728	Paenibacillus piscarius sp. nov., a novel nitrogen-fixing species isolated from the gut of the armored catfish Parotocinclus maculicauda <b>2022</b> , 115, 155-165	О
727	Sandacrabins - Structurally Unique Antiviral RNA Polymerase Inhibitors from a Rare Myxobacterium <b>2022,</b> e202104484	O

726	Bacillimidazoles A-F, Imidazolium-Containing Compounds Isolated from a Marine <b>2022</b> , 20,	1
725	Gene cluster from plant to microbes: Their role in genome architecture, organism's development, specialized metabolism and drug discovery. <b>2021</b> , 193, 1-1	О
724	Metagenomic features of traditional fermented milk products. <b>2022</b> , 155, 112945	1
723	Screening Strategies for Biosurfactant Discovery. <b>2021</b> ,	1
722	Discovery of Argyrin-Producing Archangium gephyra MEHO_001 and Identification of Its Argyrin Biosynthetic Genes. <b>2021</b> ,	
721	Applications of Microbial Fermentation to Food Products, Chemicals and Pharmaceuticals. <b>2021</b> , 173-577	
720	Comparative Genomic Analysis of () Strains Isolated From the Mariana Trench: Insights Into the Metabolic Potentials and Biogeochemical Functions <b>2021</b> , 12, 770370	1
719	sp. nov., derived from a human genito-urinary lesion. <b>2021</b> , 71,	Ο
718	A candidate gene cluster for the bioactive natural product gyrophoric acid in lichen-forming fungi.	2
717	Arthrobacter wenxiniae sp. nov., a novel plant growth-promoting rhizobacteria species harbouring a carotenoids biosynthetic gene cluster <b>2022</b> , 115, 353	1
716	Role is in the eye of the beholder - the multiple functions of the antibacterial compound tropodithietic acid produced by marine Rhodobacteraceae <b>2022</b> ,	1
715	Marinobacter arenosus sp. nov., a halotolerant bacterium isolated from a tidal flat <b>2022</b> , 204, 155	
714	Biosynthesis of Tasikamides Pathway Coupling and Diazonium-Mediated Hydrazone Formation <b>2022</b> ,	0
713	Advances in Microbiome-Derived Solutions and Methodologies Are Founding a New Era in Skin Health and Care <b>2022</b> , 11,	3
712	A naturally inspired antibiotic to target multidrug-resistant pathogens 2022,	17
711	Biotechnological potential of Kocuria rhizophila PT10 isolated from roots of Panicum turgidum. 1	
710	Nutrient Availability Shifts the Biosynthetic Potential of Soil-Derived Microbial Communities <b>2022</b> , 79, 64	0
709	Involvement of the Iron-Regulated Loci and in Biofilm Formation and Survival of Staphylococcus epidermidis within the Host <b>2022</b> , e0216821	2

708	Multi-omic characterisation of NRRL 30439: detailed assessment of its secondary metabolic potential <b>2022</b> ,	О
707	Biosynthesis of Calipyridone A Represents a Fungal 2-Pyridone Formation without Ring Expansion in <b>2022</b> ,	O
706	FJKB0103 Isolated from Rhizosphere Exhibits Anti-Methicillin-Resistant Activity 2022, 10,	2
705	A Highly Contiguous Genome Assembly of Arthrinium puccinoides 2022,	O
704	Characterization of Microorganisms from Larva Frass 2022, 10,	O
703	The virulome of in response to cello-oligosaccharide elicitors 2022, 8,	O
702	Generating lineage-resolved, complete metagenome-assembled genomes from complex microbial communities <b>2022</b> ,	13
701	Comparative genomics of the black rot pathogen pv. and non-pathogenic co-inhabitant from Trinidad reveal unique pathogenicity determinants and secretion system profiles <b>2022</b> , 9, e12632	O
700	Complete Genome Sequencing and Comparative Genomics of Three Potential Probiotic Strains, FBL6, FBL7, and FBL8 <b>2021</b> , 12, 794315	3
699	Biosynthetic Gene Cluster Analysis in Actinobacterial Genus Streptomyces. <b>2022</b> , 247-262	
698	ICEO, a biological ontology for representing and analyzing bacterial integrative and conjugative elements <b>2022</b> , 9, 11	О
697	Corallococcus silvisoli sp. nov., a novel myxobacterium isolated from subtropical forest soil <b>2022</b> , 204, 141	1
696	Ribosomally derived lipopeptides containing distinct fatty acyl moieties 2022, 119,	4
695	Toxoflavin secreted by Pseudomonas alcaliphila inhibits growth of Legionella pneumophila and its host Vermamoeba vermiformis.	O
694	Genome Sequence of Bacillus velezensis P1, a Strain Isolated from a Biofilm Captured on a Pig Farm Building <b>2022</b> , e0121921	О
693	Traditional Screening and Genome-Guided Screening of Natural Products from Actinobacteria. <b>2022</b> , 59-76	
692	Aggregatimonas sangjinii gen. nov., sp. nov., a novel silver nanoparticle synthesizing bacterium belonging to the family Flavobacteriaceae <b>2022</b> , 115, 325	
691	Advances, challenges, and opportunities in DNA sequencing technology. <b>2022</b> , 31-43	

690	Paenibacillus arenosi sp. nov., a siderophore-producing bacterium isolated from coastal sediment <b>2022</b> , 204, 113	1
689	Intake of Bifidobacterium lactis Probio-M8 fermented milk protects against alcoholic liver disease <b>2022</b> ,	1
688	Analysis of secondary metabolite gene clusters and chitin biosynthesis pathways of Monascus purpureus with high production of pigment and citrinin based on whole-genome sequencing.	
687	sp. nov., an endophytic actinobacterium isolated from the root of (L.) <b>2022</b> , 72,	О
686	Isolation and characterization of Streptomyces bacteriophages and Streptomyces strains encoding biosynthetic arsenals <b>2022</b> , 17, e0262354	1
685	Genome insights into the pharmaceutical and plant growth promoting features of the novel species Nocardia alni sp. nov <b>2022</b> , 23, 70	4
684	Prospect of Metabolic Engineering for Biochemical Production. <b>2022</b> , 557-573	
683	Habitat Adaptation Drives Speciation of a Species with Distinct Habitats and Disparate Geographic Origins <b>2022</b> , e0278121	4
682	Cloning and Heterologous Expression of Natural Products from Actinobacteria. 2022, 135-161	0
681	The natural product biosynthesis potential of the microbiomes of Earth - Bioprospecting for novel anti-microbial agents in the meta-omics era <b>2022</b> , 20, 343-352	1
680	sp. nov., isolated from Antarctic soil <b>2022</b> , 72,	0
679	A novel bacteriocin produced by Bifidobacterium longum subsp. infantis has dual antimicrobial and immunomodulatory activity.	1
678	Genome analysis of Pseudomonas sp. 14A reveals metabolic capabilities to support epiphytic behavior <b>2022</b> , 38, 49	0
677	Global analysis of biosynthetic gene clusters reveals conserved and unique natural products in entomopathogenic nematode-symbiotic bacteria.	O
676	Metagenomics revealing molecular profiling of microbial community structure and metabolic capacity in Bamucuo, Tibet.	0
675	Whole-Genome Sequence of Paenibacillus polymyxa Strain SRT9.1, a Promising Plant Growth-Promoting Bacterium <b>2022</b> , 11, e0109721	
674	Mucisphaera calidilacus gen. nov., sp. nov., a novel planctomycete of the class Phycisphaerae isolated in the shallow sea hydrothermal system of the Lipari Islands <b>2022</b> , 115, 407	0
673	Mobilization of cryptic antibiotic biosynthesis loci from human-pathogenic Nocardia <b>2022</b> , 664, 173-197	

672	Peroxidase-producing actinobacteria from Algerian environments and insights from the genome sequence of peroxidase-producing Streptomyces sp. S19 <b>2022</b> , 1	1
671	sp. nov., isolated from soil <b>2022</b> , 72,	O
670	sp. nov., an endophytic actinomycete isolated from the root of <b>2022</b> , 72,	1
669	Recently Discovered Secondary Metabolites from Species <b>2022</b> , 27,	4
668	sp. nov., isolated from Antarctic soil <b>2022</b> , 72,	1
667	Structures and function of a tailoring oxidase in complex with a nonribosomal peptide synthetase module <b>2022</b> , 13, 548	O
666	sp. nov., isolated from marine sediment <b>2022</b> , 72,	O
665	Biosynthetic potential of the endophytic fungus Helotiales sp. BL73 revealed via compound identification and genome mining <b>2022</b> , aem0251021	O
664	Characterization of pyridomycin B reveals the formation of functional groups in antimycobacterial pyridomycin <b>2022</b> , AEM0203521	O
663	Multi-Omics Data Mining: A Novel Tool for BioBrick Design.	
662	sp. nov. and sp. nov., new members in the genus <b>2022</b> , 72,	1
661	Comparative Genome Analysis Reveals Phylogenetic Identity of Bacillus velezensis HNA3 and Genomic Insights into Its Plant Growth Promotion and Biocontrol Effects <b>2022</b> , e0216921	2
660	In vitro and in silico analysis of Brilliant Black degradation by Actinobacteria and a Paraburkholderia sp <b>2022</b> , 114, 110266-110266	1
659	Exploration of Diverse Secondary Metabolites From sp. YINM00001, Using Genome Mining and One Strain Many Compounds Approach <b>2022</b> , 13, 831174	1
658	gen. nov., sp. nov., a novel actinobacterial strain isolate from a Portuguese solar saltern and proposal of fam. nov. and ord. nov <b>2022</b> , 72,	O
657	Endophytic Fungi: Key Insights, Emerging Prospects, and Challenges in Natural Product Drug Discovery <b>2022</b> , 10,	3
656	Exploring the roles of microbes in facilitating plant adaptation to climate change <b>2022</b> , 479, 327-335	О
655	Phyllosphere-associated microbiota in built environment: Do they have the potential to antagonize human pathogens?. <b>2022</b> ,	O

654	Lapcin, a potent dual topoisomerase I/II inhibitor discovered by soil metagenome guided total chemical synthesis <b>2022</b> , 13, 842	О
653	Integrated Genomic and Metabolomic Analysis Illuminates Key Secreted Metabolites Produced by the Novel Endophyte Cal.l.30 Involved in Diverse Biological Control Activities <b>2022</b> , 10,	1
652	Co-elicitation of lignocelluloytic enzymatic activities and metabolites production in an co-culture during lignocellulose fractionation <b>2022</b> , 3, 100108	O
651	Targeted isolation of two new anti-inflammatory and UV-A protective dipyrroloquinones from the sponge-associated fungus Aspergillus tamarii MCCF102 <b>2022</b> ,	
650	Ecological Interactions of Cyanobacteria and Heterotrophs Enhances the Robustness of Cyanobacterial Consortium for Carbon Sequestration <b>2022</b> , 13, 780346	1
649	A large accessory genome and high recombination rates may influence global distribution and broad host range of the fungal plant pathogen Claviceps purpurea <b>2022</b> , 17, e0263496	O
648	spp. Probiotic Strains as a Potential Tool for Limiting the Use of Antibiotics, and Improving the Growth and Health of Pigs and Chickens <b>2022</b> , 13, 801827	6
647	Bacterial Antagonistic Species of the Pathogenic Genus Isolated from Cooling Tower <b>2022</b> , 10,	O
646	sp. nov., isolated from an arid soil in Pakistan <b>2022</b> , 72,	O
645	Draft genome sequence of LAMA 639 and its biotechnological potential <b>2022</b> , 41, 107927	O
644	Comparative genome analysis, predicted lifestyle and antimicrobial strategies of Lactococcus carnosus and Lactococcus paracarnosus isolated from meat <b>2022</b> , 258, 126982	1
643	Efficient heterologous expression of cytochrome P450 enzymes in microorganisms for the biosynthesis of natural products <b>2022</b> , 1-15	5
642	Identification of bacterial populations and functional mechanisms potentially involved in biochar-facilitated antagonism of the soilborne pathogen Fusarium oxysoporum.	O
641	Genome Sequence of Strain Tok2021, a Soil Actinobacterium Isolated from a Pinus radiata Forest <b>2022</b> , e0084421	
640	Draft Genome Sequence of Sweet Pepper Fruit Epiphyte-Associated Bacillus cereus HRT7.7 <b>2022</b> , e0112521	
639	A chromosomal-level reference genome of the widely utilized Coccidioides posadasii laboratory strain "Silveira" <b>2022</b> ,	1
638	Complex peptide natural products: Biosynthetic principles, challenges and opportunities for pathway engineering <b>2022</b> , 7, 631-647	2
637	Paracoccus´shandongensis´sp. nov., Isolated from Activated Sludge <b>2021</b> , 79, 8	

636	Alteriqipengyuania abyssalis sp. nov., a Novel Member of the Class Alphaproteobacteria Isolated from Sponge, and Emended Description of the Genus Alteriqipengyuania. <b>2021</b> , 13, 670	3
635	Unsaturated fatty acids and a prenylated tryptophan derivative from a rare actinomycete of the genus <b>2021</b> , 17, 2939-2949	1
634	Combined Pan-, Population-, and Phylo-Genomic Analysis of Aspergillus fumigatus Reveals Population Structure and Lineage-Specific Diversity.	2
633	Amycolatopsis sp. nov., a Halotolerant Actinobacterium, Produces New Secondary Metabolites <b>2021</b> , 12, 743116	2
632	Genomic and Metabolomic Insights into Secondary Metabolites of the Novel Hil4, an Endophyte with Promising Antagonistic Activity against Gray Mold and Plant Growth Promoting Potential <b>2021</b> , 9,	1
631	Marker-Free CRISPR-Cas9 Based Genetic Engineering of the Phytopathogenic Fungus, <i>Penicillium expansum</i> .	
630	Amplicon-based and metagenomic approaches provide insights into toxigenic potential in understudied Atlantic Canadian lakes. <b>2022</b> , 7, 194-214	O
629	Pacificimonas pallium sp. nov., an Isolated Bacterium from the Mantle of Pacific Oyster Crassostrea gigas in Germany, and Prediction of One-Carbon Metabolism. <b>2022</b> , 14, 181	O
628	Genome-based characterization of a plasmid-associated micrococcin P1 biosynthetic gene cluster and virulence factors in IMDO-S72 <b>2021</b> , AEM0208821	0
627	Biosynthetic gene cluster profiling predicts the positive association between antagonism and phylogeny in Bacillus <b>2022</b> , 13, 1023	2
626	Genome Mining and Analysis of PKS Genes in E1 Isolated from Fuzhuan Brick Tea 2022, 8,	0
625	Characterization of a Cryptic NRPS Gene Cluster in Bacillus velezensis FZB42 Reveals a Discrete Oxidase Involved in Multithiazole Biosynthesis. <b>2022</b> , 12, 3371-3381	1
624	Sclerotiamides C-H, Notoamides from a Marine Gorgonian-Derived Fungus with Cytotoxic Activities <b>2022</b> ,	1
623	Draft Genome Sequence of an Unusual Ectomycorrhizal Fungus, Pseudotulostoma volvatum <b>2022</b> , 11, e0080121	O
622	Cross-kingdom metagenomic profiling of Lake Hillier reveals pigment-rich polyextremophiles and wide-ranging metabolic adaptations.	O
621	gen. nov., sp. nov., a member of the family isolated from soil <b>2022</b> , 72,	1
620	Unveiling the genomic potential of type strains for discovering new natural products 2022, 8,	О
619	Application of Psychrotolerant Antarctic Bacteria and Their Metabolites as Efficient Plant Growth Promoting Agents <b>2022</b> , 10, 772891	O

618	New Report: Genome Mining Untaps the Antibiotics Biosynthetic Gene Cluster of Pseudoalteromonas xiamenensis STKMTI.2 from a Mangrove Soil Sediment <b>2022</b> , 24, 190	1
617	Biocontrol properties from phyllospheric bacteria isolated from Solanum lycopersicum and Lactuca sativa and genome mining of antimicrobial gene clusters <b>2022</b> , 23, 152	0
616	Genome Sequencing and Analysis of (Hypocreaceae) Isolates Exhibiting Antagonistic Activity against the Papaya Dieback Pathogen, <b>2022</b> , 8,	0
615	Biosynthesis of aurodox, a Type III secretion system inhibitor from Streptomyces goldiniensis.	Ο
614	System-Level Analysis of Transcriptional and Translational Regulatory Elements in <b>2022</b> , 10, 844200	
613	An inventory of early branch points in microbial phosphonate biosynthesis <b>2022</b> , 8,	O
612	High-Quality Genome Sequence Resource of Strain LY-HS-1, Causing Scab Disease of Peanut <b>2022</b> , PDI	S11212 <b>5</b> 49A
611	Do lanthanide-dependent microbial metabolisms drive the release of REEs from weathered granites?.	
610	Identification, Characterization, and Synthesis of Natural Parasitic Cysteine Protease Inhibitors: Pentacitidins Are More Potent Falcitidin Analogues <b>2022</b> ,	0
609	Machine learning from Pseudomonas aeruginosa transcriptomes identifies independently modulated sets of genes associated with known transcriptional regulators <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1 3
608	Genomic and Functional Variation of the Chlorophyll -Producing Cyanobacterium 2022, 10,	1
607	Halovirs I-K, antibacterial and cytotoxic lipopeptaibols from the plant pathogenic fungus Paramyrothecium roridum NRRL 2183 <b>2022</b> ,	1
606	Correlational networking guides the discovery of unclustered lanthipeptide protease-encoding genes <b>2022</b> , 13, 1647	1
605	Heterologous Expression and Biochemical Analysis Reveal a Schizokinen-Based Siderophore Pathway in (Cyanobacteria) <b>2022</b> , e0237321	
604	sp. nov., Isolated from Freshwater of Daechung Reservoir during Bloom <b>2022</b> , 32, 1-10	1
603	Enemy or ally: a genomic approach to elucidate the lifestyle of Phyllosticta citrichinaensis 2022,	
602	Siderophores as an iron source for picocyanobacteria in deep chlorophyll maximum layers of the oligotrophic ocean <b>2022</b> ,	1
601	Haloarchaea have a high genomic diversity for the biosynthesis of carotenoids of biotechnological interest <b>2021</b> , 103919	2

600	Black fungi and ants: a genomic comparison of species inhabiting carton nests versus domatia <b>2022</b> , 13, 4	О
599	Ensifer meliloti L6-AK89, an Effective Inoculant of Medicago lupulina Varieties: Phenotypic and Deep-Genome Screening. <b>2022</b> , 12, 766	Ο
598	Discovery and Characterization of Marinsedin, a New Class II Lanthipeptide Derived from Marine Bacterium F2 <b>2022</b> ,	
597	Sphingolipid synthesis inhibitor fumonisin B1 causes verticillium wilt in cotton 2022,	Ο
596	A Secondary Metabolism Pathway Involved in the Production of a Putative Toxin Is Expressed at Early Stage of Infection <b>2022</b> , 13, 818483	
595	Discovery of the non-cosmopolitan lineages in Candidatus Thermoprofundales 2022,	Ο
594	Genomic Comparisons of Two Armillaria Species with Different Ecological Behaviors and Their Associated Soil Microbial Communities <b>2022</b> , 1	Ο
593	Genome mining revealed polyhydroxybutyrate biosynthesis by Ramlibacter agri sp. nov., isolated from agriculture soil in Korea <b>2022</b> , 115, 563	Ο
592	Genome-Mining-Guided Discovery and Characterization of the PKS-NRPS-Hybrid Polyoxyperuin Produced by a Marine-Derived Streptomycete <b>2022</b> ,	1
591	The genome wide analysis deciphered virulence factors and secondary metabolites of Chryseobacterium and description of Chryseobacterium indicum sp. nov.	
590	Strategies to access biosynthetic novelty in bacterial genomes for drug discovery 2022,	1
589	Non-ribosomal peptide synthetase domain boundary identification and new motifs discovery based on motif-intermotifs standardized architecture.	Ο
588	Biosynthetic pathways of triterpenoids and strategies to improve their Biosynthetic Efficiency <b>2022</b> , 1-16	5
587	Type S Non Ribosomal Peptide Synthetases for the rapid generation of tailormade peptide libraries <b>2022</b> ,	O
586	Whole-Genome Sequencing and Comparative Genomic Analysis of Antimicrobial Producing from the Rumen <b>2022</b> , 10,	
585	Resistance-Guided Mining of Bacterial Genotoxins Defines a Family of DNA Glycosylases <b>2022</b> , e0329721	Ο
584	Structure and biosynthesis of carotenoids produced by a novel Planococcus sp. isolated from South Africa <b>2022</b> , 21, 43	1
583	Isomaltooligosaccharides utilization and genomic characterization of human infant anti-inflammatory and strains <b>2022</b> , 12, 89	O

582	Activating cryptic biosynthetic gene cluster through a CRISPR-Cas12a-mediated direct cloning approach <i>Nucleic Acids Research</i> , <b>2022</b> ,	1
581	Shinella oryzae sp. nov., a novel zearalenone-resistant bacterium isolated from rice paddy soil <b>2022</b> , 1	O
580	Comparative Genome Analysis of Lactobacillus acidophilus Isolates from Different Ecological Niches.	
579	Shared in planta population and transcriptomic features of nonpathogenic members of endophytic phyllosphere microbiota <b>2022</b> , 119, e2114460119	1
578	Cerebral Intraparenchymal Hemorrhage Changes Patients' Gut Bacteria Composition and Function <b>2022</b> , 12, 829491	O
577	Transcriptional Profiles of a Foliar Fungal Endophyte (, Ascomycota) and Its Bacterial Symbiont (, ) Reveal Sulfur Exchange and Growth Regulation during Early Phases of Symbiotic Interaction <b>2022</b> , e0009122	0
576	The Venturia inaequalis effector repertoire is expressed in waves, and is dominated by expanded families with predicted structural similarity to avirulence proteins from other fungi.	0
575	sp. nov., a carotenoid-producing bacterium isolated from surface seawater <b>2022</b> , 72,	O
574	Diversity of for the Production of the Phytotoxic Metabolites (-)-Terremutin and ()-Mellein 2022, 8,	0
573	Draft Genome Sequences of 6 Actinobacterial Strains Isolated from Rock Surfaces Obtained from Indian Stone Ruins in Tamil Nadu, India, and Rocks from New England, United States <b>2022</b> , e0002422	O
572	Diverse Protein Architectures and \( \text{\text{Methylation Patterns Define Split Borosin RiPP Biosynthetic Gene Clusters 2022,}\)	1
571	Exploration of Chemical Biology Approaches to Facilitate the Discovery and Development of Novel Antibiotics. 3,	1
570	Tracking of Diversity and Evolution in the Brown Rot Fungi , , and <b>2022</b> , 13, 854852	1
569	Single-cell metabolite detection and genomics reveals uncultivated talented producer. 2022, 1,	3
568	Draft Genome Sequences of Two Species Associated with Hexachlorocyclohexane (HCH) Degradation Isolated from an HCH-Contaminated Soil <b>2022</b> , e0088621	0
567	A comparative whole-genome approach identifies bacterial traits for marine microbial interactions <b>2022</b> , 5, 276	1
566	Emergence of a Multidrug-Resistant Co-Carrying a New Variant and Genes Recovered from a Urinary Tract Infection <b>2022</b> , 15, 1499-1503	О
565	Characterization of a rare clinical isolate of A. spinulosporus following a central nervous system infection <b>2022</b> , 104973	

564	Population genomics of the grapevine pathogen Eutypa lata reveals evidence for population expansion and intraspecific differences in secondary metabolite gene clusters <b>2022</b> , 18, e1010153	O
563	Bioprospecting of Ribosomally Synthesized and Post-translationally Modified Peptides Through Genome Characterization of a Novel Probiotic UTNGt21A Strain: A Promising Natural Antimicrobials Factory <b>2022</b> , 13, 868025	
562	Comparative metagenomic analysis of biosynthetic diversity across sponge microbiomes highlights metabolic novelty, conservation and diversification.	
561	Antibiotic-producing Micrococcales govern the microbiome that inhabits the fur of two- and three-toed sloths.	1
560	The Genome of SC60 Provides Evidence for Its Plant Probiotic Effects 2022, 10,	O
559	Cross-kingdom expression of synthetic genetic elements promotes discovery of metabolites in the human microbiome <b>2022</b> ,	2
558	Harnessing phosphonate antibiotics argolaphos biosynthesis enables a synthetic biology-based green synthesis of glyphosate <b>2022</b> , 13, 1736	2
557	Purification and characterization of antifungal lipopeptide produced by Bacillus velezensis isolated from raw honey <b>2022</b> , 17, e0266470	3
556	Recovering metagenome-assembled genomes from shotgun metagenomic sequencing data: Methods, applications, challenges, and opportunities <b>2022</b> , 260, 127023	O
555	Marker-free CRISPR-Cas9 based genetic engineering of the phytopathogenic fungus, Penicillium expansum <b>2022</b> , 160, 103689	O
554	Data on genome assembly and annotation of sp. strain CA1 isolated from indigenous diatom found in whiteleg shrimp pond in Malaysia <b>2022</b> , 42, 108049	
553	Toxoflavin secreted by Pseudomonas alcaliphila inhibits the growth of Legionella pneumophila and Vermamoeba vermiformis <b>2022</b> , 216, 118328	O
552	Complete genome analysis reveals secondary metabolite biosynthetic capabilities of Streptomyces sp. R527F isolated from the Arctic Ocean <b>2022</b> , 63, 100949	1
551	Full Issue PDF <b>2021</b> , 34, 1228-1333	
550	Phenotypic Characterization and Comparative Genomics of the Melanin-Producing Yeast Reveals a Distinct Stress Tolerance Profile and Reduced Ribosomal Genetic Content <b>2021</b> , 7,	O
549	Analysis of the Genome of the Heavy Metal Resistant and Hydrocarbon-Degrading Rhizospheric ZCR6 Strain and Assessment of Its Plant-Growth-Promoting Traits <b>2021</b> , 23,	0
548	Identification of structurally diverse menaquinone-binding antibiotics with in vivo activity against multidrug-resistant pathogens <b>2021</b> ,	1
547	Genomic and Metabolomic Analyses of the Marine Fungus: Insights into Saltwater Adaptability Mechanisms and Its Biosynthetic Potential <b>2021</b> , 8,	3

546	Draft Genome Sequences of Two Strains of Enterococcus lactis Showing High Potential as Cattle Probiotic Supplements. <b>2021</b> , 10, e0043621	
545	Zooshikella harenae sp. nov., Isolated from Pacific Oyster Crassostrea gigas, and Establishment of Zooshikella ganghwensis subsp. marina subsp. nov. and Zooshikella ganghwensis subsp. ganghwensis subsp. nov <b>2021</b> , 13, 641	1
544	pan-genome reveals specific functional traits for plant beneficial and pathogenic plant-associations. <b>2021</b> , 7,	0
543	Draft genome sequence of a lipopeptide-producing Bacillus amyloliquefaciens strain isolated from wheat field soil with antagonistic activity against azole-resistant Fusarium graminearum <b>2021</b> ,	
542	Mesorhizobium xinjiangense sp. nov., isolated from rhizosphere soil of Alhagi sparsifolia <b>2021</b> , 204, 29	О
541	sp. nov., a thermophilic bacterium isolated from deep sea sediment in the South China Sea <b>2021</b> , 71,	1
540	Novel Alkaloids from Marine Actinobacteria: Discovery and Characterization 2021, 20,	1
539	Diverse Protein Architectures and 🗗 Methylation Patterns Define Split Borosin RiPP Biosynthetic Gene Clusters.	
538	Comprehensive Guide to Extracting and Expressing Fungal Secondary Metabolites with Aspergillus fumigatus as a Case Study <b>2021</b> , 1, e321	O
537	Comparative genome characterization of Echinicola marina sp. nov., isolated from deep-sea sediment provide insight into carotenoid biosynthetic gene cluster evolution <b>2021</b> , 11, 24188	1
536	Genomics: Chromosomal Diversity and Plasmidome Versatility 2021, 12, 789929	1
535	Genomic, Antimicrobial, and Aphicidal Traits of ATR2, and Its Biocontrol Potential against Ginger Rhizome Rot Disease Caused by <b>2021</b> , 10,	1
534	Williamsia soli sp. nov., an actinobacterium isolated from soil at a thermal power plant in Yantai, China <b>2021</b> , 204, 102	O
533	sp. nov., an acid-tolerant actinobacterium isolated from bio-fertilizer of species <b>2021</b> , 71,	o
532	Pseudaestuariivita rosea sp. nov., isolated from Acmaea sp., a marine mollusk <b>2021</b> , 204, 94	O
531	Advances in Biosynthesis of Natural Products from Marine Microorganisms <b>2021</b> , 9,	3
530	Genomic Insights into the Distribution and Phylogeny of Glycopeptide Resistance Determinants within the Phylum <b>2021</b> , 10,	1
529	Bacillibactin class of siderophore antibiotics from a marine symbiotic Bacillus as promising antibacterial agents <b>2022</b> , 106, 329-340	2

528	sp. nov., with an antibacterial property, isolated from mangrove sediment. 2021, 71,	1
527	gen. nov., sp. nov. isolated from marine sand <b>2021</b> , 71,	1
526	sp. nov. and sp. nov., isolated from Jeongbang Waterfall on Jeju Island <b>2021</b> , 71,	2
525	Bioinformatic and Mechanistic Analysis of the Palmerolide PKS-NRPS Biosynthetic Pathway From the Microbiome of an Antarctic Ascidian <b>2021</b> , 9, 802574	2
524	Pharmacological Properties, Volatile Organic Compounds, and Genome Sequences of Bacterial Endophytes from the Mangrove Plant Blume <b>2021</b> , 10,	О
523	Fungal Secondary Metabolism. <b>2022</b> , 2, 1-13	4
522	Genome Characteristics Reveal the Biocontrol Potential of Actinobacteria Isolated From Sugarcane Rhizosphere <b>2021</b> , 12, 797889	3
521	Bhargavaea massiliensis sp. nov. and Dietzia massiliensis sp. nov., Novel Bacteria Species Isolated from Human Urine Samples in Nigeria <b>2021</b> , 79, 18	
520	Genomic Features and Construction of Streamlined Genome Chassis of Nisin Z Producer N8 <b>2021</b> , 10,	2
519	PLaBAse: A comprehensive web resource for analyzing the plant growth-promoting potential of plant-associated bacteria.	1
518	Three Novel Bacteria Associated with Two Centric Diatom Species from the Mediterranean Sea, and <b>2021</b> , 22,	О
517	Isolation and Identification of Pentalenolactone Analogs from sp. NRRL S-4. <b>2021</b> , 26,	1
516	An isotopic labeling approach linking natural products with biosynthetic gene clusters 2021,	0
515	Genome and Metabolome MS-Based Mining of a Marine Strain of <b>2021</b> , 7,	3
514	Single cell genome sequencing of laboratory mouse microbiota improves taxonomic and functional resolution of this model microbial community.	
513	Functional analysis of a gene cluster for putative bacteriocin deduced from the genome sequence of Aeribacillus pallidus PI8 <b>2022</b> ,	
512	Endophytic Actinomycetes: Secondary Metabolites and Genomic Approaches. 2022, 363-391	
511	Mining for NRPS and PKS Genes in Actinobacteria Using Whole-Genome Sequencing and Bioinformatic Tools. <b>2022</b> , 393-410	

510 Synthetic Biology in Actinomycetes for Natural Product Discovery. **2022**, 331-362

509	Actinobacteria from Marine Environments: A Unique Source of Natural Products. <b>2022</b> , 1-45	
508	High molecular weight DNA extraction methods lead to high quality filamentous ascomycete fungal genome assemblies using Oxford Nanopore sequencing <b>2022</b> , 8,	О
507	A rapid and efficient strategy to identify and recover biosynthetic gene clusters from soil metagenomes <b>2022</b> , 106, 3293	1
506	Streptomyces griseicoloratus sp. nov., isolated from soil in cotton fields in Xinjiang, China <b>2022</b> , 204, 254	
505	Lifestyle, mating type and mitochondrial genome features of the plant pathogen Calonectria hawksworthii (Hypocreales, Nectriaceae) as revealed by genome analyses.	
504	Comparative Genomic Analysis of the Lettuce Bacterial Leaf Spot Pathogen, pv. , to Investigate Race Specificity <b>2022</b> , 13, 840311	1
503	Combining in vitro and in vivo screening to identify efficient Pseudomonas biocontrol strains against the phytopathogenic bacterium Ralstonia solanacearum <b>2022</b> , 11, e1283	1
502	Comparative genomics analysis of genus Leuconostoc resolves its taxonomy and elucidates its biotechnological importance. <b>2022</b> , 104039	О
501	In-depth genome analysis of Bacillus sp. BH32, a salt stress-tolerant endophyte obtained from a halophyte in a semiarid region <b>2022</b> ,	O
500	Nocardia noduli sp. nov., a novel actinobacterium with biotechnological potential 2022, 204, 260	1
499	Single cell genome sequencing of laboratory mouse microbiota improves taxonomic and functional resolution of this model microbial community <b>2022</b> , 17, e0261795	O
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496	Genomic insights into the biosynthesis and physiology of the cyanobacterial neurotoxin 3-N-methyl-2,3-diaminopropanoic acid (BMAA) <b>2022</b> , 113198	O
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368	Genome sequencing and genomic analysis of Amycolatopsis tucumanensis DSM 45259 applicable in gray, red, and nano-biotechnology <b>2022</b> ,	O
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355	Isolation and Biosynthesis of Phenazine-Polyketide Hybrids from sp. KIB-H483 <b>2022</b> ,	1
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240	Genome sequence of freshwater nontoxigenic Limnoraphis associated with microcystin-producing blooms <b>2022</b> , 118, 102309	
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227	Microalgae and Cyanobacteria: A Potential Source for Drug Discovery Using Genome Mining Approach. <b>2022</b> , 177-204	O
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221	Biosynthesis of Sesquiterpenes in Basidiomycetes: A Review. <b>2022</b> , 8, 913	3
220	Genetic localization of epicoccamide biosynthetic gene cluster in Epicoccum nigrum KACC 40642. <b>2022</b> , 65, 159-166	0
219	Defining a Nonribosomal Specificity Code for Design.	O
218	Streptomyces pimonensis sp. nov., isolated from the Taklimakan desert in Xinjiang, China. <b>2022</b> , 204,	0
217	Cryptic specialized metabolites drive Streptomyces exploration and provide a competitive advantage during growth with other microbes. <b>2022</b> , 119,	1
216	Metagenomics-resolved genomics provides novel insights into chitin turnover, metabolic specialization, and niche partitioning in the octocoral microbiome. <b>2022</b> , 10,	0
215	Genomic Analysis of Surfactant-Producing Bacillus vallismortis TIM68: First Glimpse at Species Pangenome and Prediction of New Plipastatin-Like Lipopeptide.	O
214	Validation of the application of gel beads-based single-cell genome sequencing platform to soil and seawater. <b>2022</b> , 2,	0
213	Mining Biosynthetic Gene Clusters in Carnobacterium maltaromaticum by Interference Competition Network and Genome Analysis. <b>2022</b> , 10, 1794	O
212	The structure of a polyketide synthase bimodule core. <b>2022</b> , 8,	O
211	Characterization of an Exceptional Fungal Mutant Enables the Discovery of the Specific Regulator of a Silent PKSNRPS Hybrid Biosynthetic Pathway. <b>2022</b> , 70, 11769-11781	O
210	Rhizobium quercicola sp. nov., isolated from the leaf of Quercus variablis in China. 2022, 204,	0
209	Rahnella aquatilis JZ-GX1 alleviates iron deficiency chlorosis in Cinnamomum camphora by secreting desferrioxamine and reshaping the soil fungal community. 13,	O
208	Uncovering Lasonolide A Biosynthesis Using Genome-Resolved Metagenomics.	2
207	Genomic features predict bacterial life history strategies in soil, as identified by metagenomic stable isotope probing.	O
206	Multi-omics Data Reveal the Effect of Sodium Butyrate on Gene Expression and Protein Modification in Streptomyces. <b>2022</b> ,	0
205	Dyella sedimenti sp. nov., Isolated from the Sediment of a Winery. <b>2022</b> , 79,	O

204	Genomic Comparative Analysis of Cordyceps pseudotenuipes with Other Species from Cordyceps. <b>2022</b> , 12, 844	0
203	Flavobacterium soyae sp. nov., isolated from the rhizosphere of soya bean. <b>2022</b> , 72,	1
202	Isolation and genomic characterization of metal-resistant Stenotrophomonas maltophilia SRM01 from the marine environment.	O
201	Genome-based discovery and total synthesis of janustatins, potent cytotoxins from a plant-associated bacterium. <b>2022</b> , 14, 1193-1201	1
200	A visualization reporter system for characterizing antibiotic biosynthetic gene clusters expression with high-sensitivity. <b>2022</b> , 5,	1
199	Comparative genomics of Rothia species reveals diversity in novel biosynthetic gene clusters and ecological adaptation to different eukaryotic hosts and host niches. <b>2022</b> , 8,	O
198	Bacillus velezensis strain Ag75 as a new multifunctional agent for biocontrol, phosphate solubilization and growth promotion in maize and soybean crops. <b>2022</b> , 12,	3
197	Predicting the secondary metabolic potential of microbiomes from marker genes using PSMPA.	O
196	Genome Insight and Description of Previously Uncultured N2-Fixing Bacterium Rhizobium terricola sp. nov., Isolated from Forest Rhizospheric Soil by Using Modified Culture Method. <b>2022</b> , 14, 733	1
195	Shared Core Microbiome and Functionality of Key Taxa Suppressive to Banana Fusarium Wilt. <b>2022</b> , 2022, 1-15	O
194	Screening of Thiopeptide-Producing Streptomycetes Isolated From the Rhizosphere Soil of Juniperus excelsa. <b>2022</b> , 79,	0
193	Inherent tendency of Synechococcus and heterotrophic bacteria for mutualism on long-term coexistence despite environmental interference. <b>2022</b> , 8,	O
192	Environmental Adaptability and Organic Pollutant Degradation Capacity of a Novel Rhodococcus Species Derived from Soil in the Uninhabited Area of the Qinghai-Tibet Plateau. <b>2022</b> , 10, 1935	O
191	Genome mining as a biotechnological tool for the discovery of novel biosynthetic genes in lichens. 3,	1
190	Expanded Sequence Space of Radical S-Adenosylmethionine-Dependent Enzymes Involved in Post-translational Macrocyclization.	0
189	Colicins of Escherichia coli Lead to Resistance against the Diarrhea-Causing Pathogen Enterotoxigenic E. coli in Pigs.	1
188	Physiological properties and genomic insights into the plant growth [promoting rhizobacterium Brevibacillus laterosporus K75 isolated from maize rhizosphere.	0
187	Expanded Sequence Space of Radical S-Adenosylmethionine-Dependent Enzymes Involved in Post-translational Macrocyclization.	O

186	The Diversity of Lipopeptides in the Pseudomonas syringae Complex Parallels Phylogeny and Sheds Light on Structural Diversification during Evolutionary History.	O
185	Genome-centric analysis of short and long read metagenomes reveals uncharacterized microbiome diversity in Southeast Asians. <b>2022</b> , 13,	0
184	Demystifying Bacteriocins of human microbiota by genome guided prospects: An impetus to rekindle the antimicrobial research. <b>2022</b> , 24,	O
183	Characterization of Pseudomonas sp. NIBR-H-19, an Antimicrobial Secondary Metabolite Producer Isolated from the Gut of Korean Native Sea Roach, Ligia exotica. <b>2022</b> ,	0
182	Transcriptomics in serum and culture medium reveal shared and differential gene regulation in pathogenic and commensalStreptococcus suis.	O
181	Whole genome analysis of host-associated lactobacillus salivarius and the effects on hepatic antioxidant enzymes and gut microorganisms of Sinocyclocheilus grahami. 13,	O
180	Nocardioides ochotonae sp. nov., Nocardioides campestrisoli sp. nov. and Nocardioides pantholopis sp. nov., isolated from the Qinghaillibet Plateau. <b>2022</b> , 72,	0
179	Microbiome composition modulates secondary metabolism in a multispecies bacterial community. <b>2022</b> , 119,	3
178	Genome Sequencing Suggests Diverse Secondary Metabolism in Coral-Associated Aquimarina megaterium.	O
177	Structural basis of colibactin activation by the ClbP peptidase.	O
176	Comparative genomics and pangenomics of vancomycin-resistant and susceptible Enterococcus	
	faecium from Irish hospitals. <b>2022</b> , 71,	0
175	faecium from Irish hospitals. <b>2022</b> , 71,  Synthetic Biology Meets Machine Learning. <b>2023</b> , 21-39	0
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175	Synthetic Biology Meets Machine Learning. <b>2023</b> , 21-39	0
175 174	Synthetic Biology Meets Machine Learning. 2023, 21-39  Atopomonas sediminilitoris sp. nov., isolated from beach sediment of Zhairuo Island, China.  Cellulomonas dongxiuzhuiae sp. nov., Cellulomonas wangleii sp. nov. and Cellulomonas fengjieae	0
175 174 173	Synthetic Biology Meets Machine Learning. 2023, 21-39  Atopomonas sediminilitoris sp. nov., isolated from beach sediment of Zhairuo Island, China.  Cellulomonas dongxiuzhuiae sp. nov., Cellulomonas wangleii sp. nov. and Cellulomonas fengjieae sp. nov., isolated from the intestinal contents of Marmota himalayana. 2022, 72,	0
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167	Anthranilic acid accumulation in Saccharomyces cerevisiae induced by expression of a nonribosomal peptide synthetase gene from Paecilomyces cinnamomeus BCC 9616.	O
166	Thermorubin Biosynthesis Initiated by a Salicylate Synthase Suggests an Unusual Conversion of Phenols to Pyrones.	0
165	Enhanced Rishirilide Biosynthesis by a Rare In-Cluster Phosphopantetheinyl Transferase in Streptomyces xanthophaeus.	Ο
164	Breaking the Bottleneck in Anticancer Drug Development: Efficient Utilization of Synthetic Biology. <b>2022</b> , 27, 7480	1
163	Genomic Characterization of a Multidrug-Resistant Escherichia coli Isolate Co-Carrying blaNDM-5 and blaCTX-M-14 Genes Recovered from a Pediatric Patient in China. Volume 15, 6405-6412	Ο
162	Talaropeptins A and B, Tripeptides with an N-trans-Cinnamoyl Moiety from the Marine-Derived Fungus Talaromyces purpureogenus CX11.	0
161	In silico, in vitro and in vivo characterization of host-associated Latilactobacillus curvatus strains for potential probiotic applications in farmed Atlantic salmon (Salmo salar). <b>2022</b> , 12,	Ο
160	A Catalog of over 5,000 Metagenome-Assembled Microbial Genomes from the Caprinae Gut Microbiota.	0
159	Mucilaginibacter aquariorum sp. nov., Isolated from Fresh Water. <b>2022</b> ,	
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158	Genomic Landscape Highlights Molecular Mechanism Involved in Silicate Solubilization, Stress Tolerance, and Potential Growth-Promoting Activity of Bacteria Enterobacter sp. LR6. <b>2022</b> , 11, 3622	0
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157	Genomic Landscape Highlights Molecular Mechanism Involved in Silicate Solubilization, Stress Tolerance, and Potential Growth-Promoting Activity of Bacteria Enterobacter sp. LR6. 2022, 11, 3622  Versatile role of Pseudomonas fuscovaginae cyclic lipopeptides in plant and microbial interactions. 13,  Reconciliation and Evolution of Penicillium rubens Genome-Scale Metabolic Networks IWhat about	0
157 156	Genomic Landscape Highlights Molecular Mechanism Involved in Silicate Solubilization, Stress Tolerance, and Potential Growth-Promoting Activity of Bacteria Enterobacter sp. LR6. 2022, 11, 3622  Versatile role of Pseudomonas fuscovaginae cyclic lipopeptides in plant and microbial interactions. 13,  Reconciliation and Evolution of Penicillium rubens Genome-Scale Metabolic Networks IWhat about Specialised Metabolism?.  Discovery of 3?-O-EGlucosyltubercidin and the Nucleoside Specific Glycosyltrans ferase AvpGT	0 0
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149	Metagenomics revealing molecular profiles of microbial community structure and metabolic capacity in Bamucuo lake, Tibet. <b>2022</b> , 114847	O
148	Nonribosomal peptide synthetase gene clusters and characteristics of predicted NRPS-dependent siderophore synthetases in Armillaria and other species in the Physalacriaceae.	O
147	Application of Gene Knockout and Heterologous Expression Strategy in Fungal Secondary Metabolites Biosynthesis. <b>2022</b> , 20, 705	O
146	Antarctic Sphingomonas sp. So64.6b showed evolutive divergence within its genus, including new biosynthetic gene clusters. 13,	O
145	Taxonomic and genomic characterization of Sporosarcina cyprini sp. nov., moderately tolerant of Cr+6 and Cd+2 isolated from the gut of invasive fish Cyprinus carpio var. communis (Linn., 1758).	O
144	The central role of pyruvate metabolism on the epigenetic and molecular maturation of bovine cumulus-oocytes complexes	О
143	The pan-genome of Aspergillus fumigatus provides a high-resolution view of its population structure revealing high levels of lineage-specific diversity driven by recombination. <b>2022</b> , 20, e3001890	3
142	In Silico Analysis of the Genomic Potential for the Production of Specialized Metabolites of Ten Strains of the Bacillales Order Isolated from the Soil of the Federal District, Brazil. <b>2022</b> , 158-163	O
141	Standardized multi-omics of Earth microbiomes reveals microbial and metabolite diversity. <b>2022</b> , 7, 2128-2150	O
140	Fungal antibiotics control bacterial community diversity in the cheese rind microbiome.	O
139	Complete genome sequence resource of Pantoea anthophila CL1 causing soft rot disease in Clausena lansium (Wampee) in China.	O
138	Biocontrol efficacy of Bacillus velezensis strain YS-AT-DS1 against the root-knot nematode Meloidogyne incognita in tomato plants. 13,	O
137	Ribosomal RNA operons define a central functional compartment in the Streptomyces chromosome. <b>2022</b> , 50, 11654-11669	O
136	Metabolomics- and systems-biology-guided discovery of metabolite lead compounds and druggable targets. <b>2022</b> , 103460	0
135	NPOmix: a machine learning classifier to connect mass spectrometry fragmentation data to biosynthetic gene clusters.	O
134	High-throughput retrieval of target sequences from complex clone libraries using CRISPRi.	О
133	Microbiome and metagenomic analysis of Lake Hillier Australia reveals pigment-rich polyextremophiles and wide-ranging metabolic adaptations. <b>2022</b> , 17,	Ο

132	Whole Genome Sequencing and Comparative Genomics of Indian Isolates of Wheat Spot Blotch Pathogen Bipolaris sorokiniana Reveals Expansion of Pathogenicity Gene Clusters. <b>2023</b> , 12, 1	O
131	Complete genome sequence analysis of a plant growth-promoting phylloplane Bacillus altitudinis FD48 offers mechanistic insights into priming drought stress tolerance in rice. <b>2022</b> , 110550	1
130	Plant microbiomes harbor potential to promote nutrient turnover in impoverished substrates of a Brazilian biodiversity hotspot.	0
129	Endophytic Diaporthe as Promising Leads for the Development of Biopesticides and Biofertilizers for a Sustainable Agriculture. <b>2022</b> , 10, 2453	0
128	Metabolomics and Genomics Enable the Discovery of a New Class of Nonribosomal Peptidic Metallophores from a Marine Micromonospora.	0
127	Draft Genome Sequences of Probiotic Candidate Schleiferilactobacillus harbinensis Isolated from Fermented Milk ${ m I\!L}$ aban ${ m I\!I}$	O
126	Genome-level analyses resolve an ancient lineage of symbiotic ascomycetes. <b>2022</b> , 32, 5209-5218.e5	0
125	Actinotalea soli sp. nov., isolated from Kubuqi Desert soil. <b>2022</b> , 72,	Ο
124	Horizontal Transfer of Bacteriocin Biosynthesis Genes Requires Metabolic Adaptation To Improve Compound Production and Cellular Fitness.	0
123	Chryseolinea lacunae sp. nov. and Piscinibacter lacus sp. nov. Isolated from Artificial Pond Water. <b>2023</b> , 80,	0
122	Long-Read Metagenome-Assembled Genomes Improve Identification of Novel Complete Biosynthetic Gene Clusters in a Complex Microbial Activated Sludge Ecosystem. <b>2022</b> , 7,	0
121	Whole-genome analysis revealed the growth-promoting mechanism of endophytic bacterial strain Q2H1 in potato plants. 13,	Ο
120	Navigating and expanding the roadmap of natural product genome mining tools. 18, 1656-1671	Ο
119	Mining of novel secondary metabolite biosynthetic gene clusters from acid mine drainage. <b>2022</b> , 9,	0
118	CaExTun: Mitigating Cas9-Related Toxicity in Streptomyces through Species-Specific Expression Tuning with Randomized Constitutive Promoters.	0
117	Devosia oryzisoli sp. nov., a novel moderately halotolerant bacterium isolated from the roots of rice plants and genome mining revealed the biosynthesis potential as plant growth promoter.	0
116	Genetic Determinants of Antagonistic Interactions and the Response of New Endophytic Strain Serratia quinivorans KP32 to Fungal Phytopathogens. <b>2022</b> , 23, 15561	O
115	Cost-effective hybrid long-short read assembly delineates alternative GC-richStreptomyceschassis for natural product discovery.	Ο

114	Pseudomonasisolates from ponds populated with duckweed prevent disease caused by pathogenicPseudomonasspecies.	О
113	Metabolic reconstruction of the near complete microbiome of the model sponge lanthella basta .	O
112	The Botrytis cinerea Gene Expression Browser. <b>2023</b> , 9, 84	0
111	Genomic Characteristics and Comparative Genomic Analysis of a Probiotic Bacterial Strain, Lactiplantibacillus plantarum CKDB008. <b>2022</b> , 2,	O
110	Metagenomic Data Reveal Type I Polyketide Synthase Distributions Across Biomes.	0
109	Metagenomics Shines Light on the Evolution of BunscreenlPigment Metabolism in the Teloschistales (Lichen-Forming Ascomycota).	1
108	Microbial Genomics: Innovative Targets and Mechanisms. <b>2023</b> , 12, 190	О
107	Mycoparasites, gut dwellers, and saprotrophs: Phylogenomic reconstructions and comparative analyses of Kickxellomycotina fungi.	O
106	Pseudarthrobacter humi sp. nov., an actinobacterium isolated from soil. <b>2023</b> , 73,	0
105	Microbiome Data Analysis and Interpretation: Correlation Inference and Dynamic Pattern Discovery. <b>2023</b> , 119-144	O
104	Isolation and Characterization of Bacteria from Natural Hot Spring and Insights into the Thermophilic Cellulase Production. <b>2023</b> , 80,	0
103	Domain Truncation in Hispidin Synthase Orthologs from Non-Bioluminescent Fungi Does Not Lead to Hispidin Biosynthesis. <b>2023</b> , 24, 1317	O
102	Whole-genome DNA methylome analysis of different developmental stages of the entomopathogenic fungus Beauveria bassiana NCHU-157 by nanopore sequencing. 14,	О
101	Hyperspectral Visualization-Based Mass Spectrometry Imaging by LMJ-SSP: A Novel Strategy for Rapid Natural Product Profiling in Bacteria.	O
100	Phylogenomic analysis of the genus Alcanivorax: proposal for division of this genus into the emended genus Alcanivorax and two novel genera Alloalcanivorax gen. nov. and Isoalcanivorax gen. nov <b>2023</b> , 73,	О
99	Mammalian Commensal Streptococci Utilize a Rare Family of Class VI Lanthipeptide Synthetases to Synthesize Miniature Lanthipeptide-type Ribosomal Peptide Natural Products. <b>2023</b> , 62, 462-475	O
98	Description and Genomic Characterization of Oceaniferula flavus sp. nov., a Novel Potential Polysaccharide-Degrading Candidate of the Difficult-to-Cultivate Phylum Verrucomicrobiota Isolated from Seaweed. <b>2023</b> , 21, 31	О
97	Culturable bacteria diversity in stem liquid and resina from Populus euphratica and screening of plant growth-promoting bacteria. <b>2022</b> , 22,	0

96	Localized coevolution between microbial predator and prey alters community-wide gene expression and ecosystem function.	O
95	Streptomyces guryensis sp. nov. exhibiting antimicrobial activity, isolated from riverside soil. <b>2023</b> , 73,	O
94	Role of glycosyltransferases in the biosynthesis of antibiotics. <b>2023</b> , 229-247	O
93	Global multi-omics profiling reveals evolutionary drivers of phylogeographic diversity of fungal specialized metabolism.	O
92	Discovery and Biosynthesis of Glycosylated Cycloheximide from a Millipede-Associated Actinomycete.	O
91	Haploid androgenetic development in bovines reveals imbalanced WNT signaling and impaired cell fate differentiation.	O
90	Genome mining for unknownlinknown natural products.	O
89	Genome Assembly of a Putative Plant Growth-Stimulating Bacterial Sweet Pepper Fruit Isolate, Enterobacter hormaechei SRU4.4.	O
88	Somalactams A $\mathbf{D}$ : Anti-inflammatory Macrolide Lactams with Unique Ring Systems from an Arctic Actinomycete Strain.	O
87	Somalactams A $\mathbf{D}$ : Anti-inflammatory Macrolide Lactams with Unique Ring Systems from an Arctic Actinomycete Strain.	O
86	Genome insights into the plant growth-promoting bacterium Saccharibacillus brassicae ATSA2T. <b>2023</b> , 13,	2
85	In Silico Genomic Characterization of Bacillus velezensis Strain AAK_S6 for Secondary Metabolite and Biocontrol Potential. <b>2023</b> , 80,	O
84	Apoptotic Induction in Human Cancer Cell Lines by Antimicrobial Compounds from Antarctic Streptomyces fildesensis (INACH3013). <b>2023</b> , 9, 129	O
83	Harnessing Novel Soil Bacteria for Beneficial Interactions with Soybean. <b>2023</b> , 11, 300	O
82	Unlocking the magic in mycelium: Using synthetic biology to optimize filamentous fungi for biomanufacturing and sustainability. <b>2023</b> , 19, 100560	O
81	Comparative genomic and functional annotation of Pseudomonas spp. genomes responsible for blue discoloration of Brazilian fresh soft cheese. <b>2023</b> , 140, 105605	O
80	MOLECULAR GENETIC AND FUNCTIONAL ANALYSIS OF GENES INFLUENCING PYOVERDINE SYNTHESIS IN PSEUDOMONAS BRASSICACEARUM S-1. <b>2022</b> , 33, 83-94	О
79	Resorculins: hybrid polyketide macrolides from Streptomyces sp. MST-91080. <b>2023</b> , 21, 2531-2538	O

78	Double-reporter-guided targeted activation of the oxytetracycline silent gene cluster in Streptomyces rimosus M527. <b>2023</b> , 120, 1411-1422	Ο
77	The natural pyrazolotriazine pseudoiodinine from Pseudomonas mosselii 923 inhibits plant bacterial and fungal pathogens. <b>2023</b> , 14,	О
76	The genome of Bacillus tequilensis EA-CB0015 sheds light into its epiphytic lifestyle and potential as a biocontrol agent. 14,	O
75	Genome-resolved metagenomics revealed metal-resistance, geochemical cycles in a Himalayan hot spring.	O
74	Genomics-Driven Discovery of Myxopyromides, a Class of Polyketidic Amides Associated with Predation of Myxococcussp. SDU36.	O
73	Function of the algicidal bacterium Pseudomonas sp. Go58 isolated from the biofilm on a water plant, and its active compounds, pyoluteorins. <b>2023</b> , 872, 162088	O
72	Botryosphaeriaceae gene machinery: Correlation between diversity and virulence. 2023, 127, 1010-1031	O
71	Genomic insights into a Pseudomonas amygdali isolate from Hibiscus rosa-sinensis. <b>2023</b> , 115, 110600	O
70	Woronichinia naegeliana: A common nontoxigenic component of temperate freshwater cyanobacterial blooms with 30% of its genome in transposons. <b>2023</b> , 125, 102433	O
69	Fungal arginine-containing cyclodipeptide synthases are finally revealed. 2023, 3, 100080	O
68	Cost-effective hybrid long-short read assembly delineates alternative GC-rich Streptomyces hosts for natural product discovery. <b>2023</b> , 8, 253-261	O
67	Shotgun metagenomic analysis of bacterial symbionts associated with Chromodoris quadricolor mantle. <b>2023</b> , 69, 101030	O
66	Genomic insights into secondary metabolites of pharmaceutical utility for Hyphococcus flavus MCCC 1K03223T, isolated from bathypelagic seawater. <b>2023</b> , 69, 101031	O
65	The genome of Lignosus tigris: Uncovering its hidden nutraceutical potential. 2023, 154, 108-119	1
64	A novel higher polyhydroxybutyrate producer Halomonas halmophila 18H with unique cell factory attributes. <b>2023</b> , 372, 128669	O
63	Evolution of pathogenicity-associated genes in Rhizoctonia solani AG1-IA by genome duplication and transposon-mediated gene function alterations. <b>2023</b> , 21,	O
62	Genome Sequencing Highlights the Plant Cell Wall Degrading Capacity of Edible Mushroom Stropharia rugosoannulata. <b>2023</b> , 61, 83-93	О
61	Comparative genomic study of the Penicillium genus elucidates a diverse pangenome and 15 lateral gene transfer events. <b>2023</b> , 14,	O

60	Valhidepsin Lipopeptides from Chromobacterium vaccinii: Structures, Biosynthesis, and Coregulation with FR900359 Production. <b>2023</b> , 86, 246-255	0
59	OmicStudio: A composable bioinformatics cloud platform with real-time feedback that can generate high-quality graphs for publication. <b>2023</b> , 2,	O
58	A Genomic Survey of the Natural Product Biosynthetic Potential of Actinomycetes Isolated from New Zealand Lichens.	0
57	Comparative genomics of Bacillus cereus sensu lato spp. biocontrol strains in correlation to in-vitro phenotypes and plant pathogen antagonistic capacity. 14,	0
56	CAGECAT: The CompArative GEne Cluster Analysis Toolbox for rapid search and visualisation of homologous gene clusters.	0
55	Phylogenetic distance and structural diversity directing a reclassification of glycopeptide antibiotics.	0
54	gutSMASH predicts specialized primary metabolic pathways from the human gut microbiota.	0
53	Genome Sequencing of Streptomyces griseus SCSIO PteL053, the Producer of 2,2?-Bipyridine and Actinomycin Analogs, and Associated Biosynthetic Gene Cluster Analysis. <b>2023</b> , 11, 396	Ο
52	Taxonomic Positions and Secondary Metabolite-Biosynthetic Gene Clusters of Akazaoxime- and Levantilide-Producers. <b>2023</b> , 13, 542	О
51	Stictamycin, an Aromatic Polyketide Antibiotic Isolated from a New Zealand Lichen-Sourced Streptomyces Species. <b>2023</b> , 86, 526-532	Ο
50	Engineering the plant metabolic system by exploiting metabolic regulation.	0
49	Genomic insights of an alkaliphilic bacterium Halalkalibacter alkaliphilus sp. nov. isolated from an Indian Soda Lake.	Ο
48	Serratia silvae sp. nov., Isolated from Forest Soil. <b>2023</b> , 80,	0
47	Delving into theBacillus cereusgroup biosynthetic gene clusters cosmos: a comparative-genomics-based classification framework.	0
46	Thermophilin 13: In Silico Analysis Provides New Insight in Genes Involved in Bacteriocin Production. <b>2023</b> , 11, 611	0
45	Enhanced mercury phytoremediation by Pseudomonodictys pantanalensis sp. nov. A73 and Westerdykella aquatica P71.	O
44	Delving into the Bacillus cereus group biosynthetic gene clusters cosmos: a comparative-genomics-based classification framework.	O
43	Species-specific secondary metabolism by actinomycetes of the genus Phytohabitans and discovery of new pyranonaphthoquinones and isatin derivatives.	Ο

42	Conservation of Genomic Information in Multiple Displacement Amplified Low-Quantity Metagenomic Material from Marine Invertebrates. <b>2023</b> , 21, 165	0
41	Genetic and Probiotic Characteristics of Urolithin A Producing Enterococcus faecium FUA027. <b>2023</b> , 12, 1021	O
40	Genomic Features Predict Bacterial Life History Strategies in Soil, as Identified by Metagenomic Stable Isotope Probing.	0
39	Draft Genome Sequence of Zalerion maritima ATCC 34329, a (Micro)Plastic-Degrading Marine Fungus. <b>2023</b> , 12,	O
38	Small Moleculein situResin Capture - an Organism Independent Strategy for Natural Product Discovery.	О
37	Metagenome-assembled microbial genomes from Parkinson disease fecal samples.	O
36	Genomic and Transcriptomic Characterization of Alternaria alternata during Infection. 2023, 13, 809	0
35	Hybrid inferiority and genetic incompatibilities drive divergence of fungal pathogens infecting the same host.	O
34	Genome Sequence Resource of Bacillus velezensis Strain ML61, a Potential Biocontrol Bacterium Isolated from the Rhizosphere of Bok Choy (Brassica rapa var. chinensis). <b>2023</b> , 12,	0
33	Constructing a Myxobacterial Natural Product Database to Facilitate NMR-Based Metabolomics Bioprospecting of Myxobacteria. <b>2023</b> , 95, 5256-5266	O
32	Endophyte genomes support greater metabolic gene cluster diversity compared with non-endophytes inTrichoderma.	0
31	Insights into the genomic evolution and the alkali tolerance mechanisms of Agaricus sinodeliciosus by comparative genomic and transcriptomic analyses. <b>2023</b> , 9,	O
30	Prospecting the functional potential of Bacillus altitudinis 1.4 isolated from sediment in association with Bradyrhizobium japonicum.	0
29	Hybrid De Novo Whole-Genome Assembly, Annotation, and Identification of Secondary Metabolite Gene Clusters in the Ex-Type Strain of Chrysosporium keratinophilum. <b>2023</b> , 9, 389	O
28	Isolation and characterization of bioactive metabolites of Bacillus enclensis CARE-V7 strain from southeast coast of India.	0
27	Genomes of four Streptomyces strains reveal insights into putative new species and pathogenicity of scab-causing organisms. <b>2023</b> , 24,	O
26	Two new siderophores produced by Pseudomonas sp. NCIMB 10586: The anti-oomycete non-ribosomal peptide synthetase-dependent mupirochelin and the NRPS-independent triabactin. 14,	0
25	Brevibacillus humidisoli sp. nov., a moderately thermoalkaliphilic and halotolerant species isolated from riverside soil. <b>2023</b> , 73,	O

24	Microbial community structure and exploration of bioremediation enzymes: functional metagenomics insight into Arabian Sea sediments.	O
23	The Complete Genome Sequence Resource of Rhizospheric Soil-Derived Bacillus velezensis Yao, with Biocontrol Potential Against Fusarium solani-Induced Pepper Root Rot. <b>2023</b> , 113, 580-583	O
22	Phylogeny-guided genome mining of roseocin family lantibiotics to generate improved variants of roseocin. <b>2023</b> , 13,	О
21	Soil conditions and the plant microbiome boost the accumulation of monoterpenes in the fruit of Citrus reticulata Thachi 2023, 11,	O
20	Comprehensive analysis of biosynthetic gene clusters in bacteria and discovery of Tumebacillus as a potential producer of natural products.	О
19	Global multi-omics profiling reveals evolutionary drivers of phylogeographic diversity of fungal specialized metabolism.	O
18	Peptidomics. <b>2023</b> , 3,	О
17	Paraburkholderia tagetis sp. nov., a novel species isolated from roots of Tagetes patula enhances the growth and yield of Solanum lycopersicum L. (tomato). 14,	O
16	Quantifying Shared and Unique Gene Content across 17 Microbial Ecosystems.	О
15	Chemical and genomic characterization of a potential probiotic treatment for stony coral tissue loss disease. <b>2023</b> , 6,	O
14	Global Marine Cold Seep Metagenomes Reveal Diversity of Taxonomy, Metabolic Function, and Natural Products.	О
13	The soil-borne white root rot pathogenRosellinia necatrixexpresses antimicrobial proteins during host colonization.	O
12	Arthrobacter caoxuetaonis sp. nov., Arthrobacter zhangbolii sp. nov. and Arthrobacter gengyunqii sp. nov., isolated from Marmota himalayana faeces from Qinghai-Tibet Plateau. <b>2023</b> , 73,	0
11	A Type I/Type III PKS Hybrid Generates Cinnamomycin A <b>D</b> . <b>2023</b> , 25, 2560-2564	O
10	Mining for a New Class of Fungal Natural Products: The Evolution, Diversity, and Distribution of Isocyanide Synthase Biosynthetic Gene Clusters.	О
9	Metagenomic and metatranscriptomic exploration of the Egyptian Red Sea sponge Theonella sp. associated microbial community. <b>2023</b> , 70, 101032	O
8	Dyadobacter pollutisoli sp. nov., isolated from plastic waste landfill soil. 2023, 73,	О
7	Aeoliella straminimaris sp. nov., a novel member of the phylum Planctomycetota with an unusual filamentous structure. <b>2023</b> , 73,	O

6	Discovery of New Siderophores from a Marine Streptomycetes sp. via Combined Metabolomics and Analysis of Iron-Chelating Activity.	0
5	Comparative genomics of the brown rot fungi Monilinia fructicola, M. laxa and M. fructigena. <b>2023</b> , 31-38	0
4	First draft genome and transcriptome of Cercosporidium personatum, causal agent of late leaf spot disease of peanut. <b>2023</b> , 16,	О
3	Comparative Functional Genome Analysis Reveals the Habitat Adaptation and Biocontrol Characteristics of Plant Growth-Promoting Bacteria in NCBI Databases.	O
2	Perspective on the development of synthetic microbial community (SynCom) biosensors. 2023,	О
1	Antribacter soli sp. nov., a novel actinobacterium isolated from soils of weathering dolomite. <b>2023</b> , 73,	О