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OrthoMCL: identification of ortholog groups for eukaryotic genomes

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2003	The human-bacterial pathogen protein interaction networks of Bacillus anthracis, Francisella tularensis, and Yersinia pestis. <b>2010</b> , 5, e12089		110
2002	Comparative genome analysis reveals an absence of leucine-rich repeat pattern-recognition receptor proteins in the kingdom Fungi. <b>2010</b> , 5, e12725		28
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1829	Evolution and architecture of the inner membrane complex in asexual and sexual stages of the malaria parasite. <b>2012</b> , 29, 2113-32	77
1828	LegumeIP: an integrative database for comparative genomics and transcriptomics of model legumes. <b>2012</b> , 40, D1221-9	83
1827	Revised phylogeny and novel horizontally acquired virulence determinants of the model soft rot phytopathogen Pectobacterium wasabiae SCC3193. <b>2012</b> , 8, e1003013	81
1826	Comparative genomics of enterococci: variation in Enterococcus faecalis, clade structure in E. faecium, and defining characteristics of E. gallinarum and E. casseliflavus. <b>2012</b> , 3, e00318-11	198
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1822	Genomic comparison of Rickettsia helvetica and other Rickettsia species. <b>2012</b> , 194, 2751	8
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1804	Molecular evolution in nonrecombining regions of the Drosophila melanogaster genome. <b>2012</b> , 4, 278-88	42
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1799	PsRobot: a web-based plant small RNA meta-analysis toolbox. <b>2012</b> , 40, W22-8	289
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1765	CORNET 2.0: integrating plant coexpression, protein-protein interactions, regulatory interactions, gene associations and functional annotations. <b>2012</b> , 195, 707-720	80
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1731 1730 1729 1728	Intrinsically disordered regions have specific functions in mitochondrial and nuclear proteins. 2012, 8, 247-55  The draft genome of a diploid cotton Gossypium raimondii. 2012, 44, 1098-103  What the Genomics of Arbuscular Mycorrhizal Symbiosis Teaches Us about Root Development. 2012, 171-188  Evolution of Xanthomonas Gene Content: Gene Gain/Loss History and Species Divergence. 2012, 11, 954-961  Allele identification in assembled genomic sequence datasets. 2012, 888, 197-211  Known and novel post-transcriptional regulatory sequences are conserved across plant families.	9 673

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1690	Large scale in silico identification of MYB family genes from wheat expressed sequence tags. <b>2012</b> , 52, 184-92	13
1689	Genome sequence of foxtail millet (Setaria italica) provides insights into grass evolution and biofuel potential. <b>2012</b> , 30, 549-54	447
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1687	Using MCL to extract clusters from networks. <b>2012</b> , 804, 281-95	221
1686	Phylogenomic analysis of transcriptome data elucidates co-occurrence of a paleopolyploid event and the origin of bimodal karyotypes in Agavoideae (Asparagaceae). <b>2012</b> , 99, 397-406	68
1685	Development of gene-based markers and construction of an integrated linkage map in eggplant by using Solanum orthologous (SOL) gene sets. <b>2012</b> , 125, 47-56	46
1684	De novo sequencing and a comprehensive analysis of purple sweet potato (Impomoea batatas L.) transcriptome. <b>2012</b> , 236, 101-13	101
1683	Iron transporters in marine prokaryotic genomes and metagenomes. <b>2012</b> , 14, 114-28	68
1682	Exposing the third chromosome of Burkholderia cepacia complex strains as a virulence plasmid. <b>2012</b> , 83, 362-78	70
1681	Post-transcriptional regulatory networks play a key role in noise reduction that is conserved from micro-organisms to mammals. <b>2012</b> , 279, 3501-12	13
1680	Genes under positive selection in a model plant pathogenic fungus, Botrytis. <b>2012</b> , 12, 987-96	29
1679	Conservation of thiol-oxidative stress responses regulated by SigR orthologues in actinomycetes. <b>2012</b> , 85, 326-44	51
1678	Comparative co-expression analysis in plant biology. <b>2012</b> , 35, 1787-98	66
1677	Comparative transcriptomics of three Poaceae species reveals patterns of gene expression evolution. <b>2012</b> , 71, 492-502	144
1676	BAR expressolog identification: expression profile similarity ranking of homologous genes in plant species. <b>2012</b> , 71, 1038-50	78
1675	On the culture-independent assessment of the diversity and distribution of Prochlorococcus. <b>2012</b> , 14, 567-79	8
1674	The eroded genome of a Psychotria leaf symbiont: hypotheses about lifestyle and interactions with its plant host. <b>2012</b> , 14, 2757-69	46
1673	PhiSiGns: an online tool to identify signature genes in phages and design PCR primers for examining phage diversity. <b>2012</b> , 13, 37	19
1672	A methodology for detecting the orthology signal in a PPI network at a functional complex level. <b>2012</b> , 13 Suppl 10, S18	10
1671	Genome plasticity and systems evolution in Streptomyces. <b>2012</b> , 13 Suppl 10, S8	35

1669	Reference genomes and transcriptomes of Nicotiana sylvestris and Nicotiana tomentosiformis. <b>2013</b> , 14, R60	139
1668	Draft genome of the mountain pine beetle, Dendroctonus ponderosae Hopkins, a major forest pest. <b>2013</b> , 14, R27	212
1667	Premetazoan genome evolution and the regulation of cell differentiation in the choanoflagellate Salpingoeca rosetta. <b>2013</b> , 14, R15	154
1666	The SYSCILIA gold standard (SCGSv1) of known ciliary components and its applications within a systems biology consortium. <b>2013</b> , 2, 7	104
1665	Comparative genome characterization of Achromobacter members reveals potential genetic determinants facilitating the adaptation to a pathogenic lifestyle. <b>2013</b> , 97, 6413-25	31
1664	Genomic analysis of the biocontrol strain Pseudomonas fluorescens Pf29Arp with evidence of T3SS and T6SS gene expression on plant roots. <b>2013</b> , 5, 393-403	36
1663	Multifactorial diversity sustains microbial community stability. <b>2013</b> , 7, 2126-36	113
1662	A novel method for cross-species gene expression analysis. <b>2013</b> , 14, 70	30
1661	JContextExplorer: a tree-based approach to facilitate cross-species genomic context comparison. <b>2013</b> , 14, 18	8
1660	Structural and evolutionary adaptation of rhoptry kinases and pseudokinases, a family of coccidian virulence factors. <b>2013</b> , 13, 117	57
1659	Reannotation and extended community resources for the genome of the non-seed plant Physcomitrella patens provide insights into the evolution of plant gene structures and functions. <b>2013</b> , 14, 498	140
1658	Genomic characterization provides new insight into Salmonella phage diversity. <b>2013</b> , 14, 481	54
1657	The miniature genome of a carnivorous plant Genlisea aurea contains a low number of genes and short non-coding sequences. <b>2013</b> , 14, 476	51
1656	Genomic basis of ecological niche divergence among cryptic sister species of non-biting midges. <b>2013</b> , 14, 384	14
1655	Genomic analysis of the native European Solanum species, S. dulcamara. <b>2013</b> , 14, 356	22
1654	Comparative transcriptome analysis and marker development of two closely related Primrose species (Primula poissonii and Primula wilsonii). <b>2013</b> , 14, 329	49
1653	Draft genome sequence of the rubber tree Hevea brasiliensis. <b>2013</b> , 14, 75	181
1652	Genome sequence reveals that Pseudomonas fluorescens F113 possesses a large and diverse array of systems for rhizosphere function and host interaction. <b>2013</b> , 14, 54	65

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1650	Draft genome sequence of the male-killing Wolbachia strain wBol1 reveals recent horizontal gene transfers from diverse sources. <b>2013</b> , 14, 20	49
1649	A new computational approach redefines the subtelomeric vir superfamily of Plasmodium vivax. <b>2013</b> , 14, 8	27
1648	Draft genome sequence of chickpea (Cicer arietinum) provides a resource for trait improvement. <b>2013</b> , 31, 240-6	781
1647	Synthetic circuit of inositol phosphorylceramide synthase in Leishmania : a chemical biology approach. <b>2013</b> , 6, 51-62	1
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1645	The Capsaspora genome reveals a complex unicellular prehistory of animals. <b>2013</b> , 4, 2325	195
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1455	Dissemination of cephalosporin resistance genes between Escherichia coli strains from farm animals and humans by specific plasmid lineages. <b>2014</b> , 10, e1004776	213
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1452	Evolution of a cellular immune response in Drosophila: a phenotypic and genomic comparative analysis. <b>2014</b> , 6, 273-89	40
1451	Horizontal transfers and gene losses in the phospholipid pathway of bartonella reveal clues about early ecological niches. <b>2014</b> , 6, 2156-69	14
1450	Single nucleus genome sequencing reveals high similarity among nuclei of an endomycorrhizal fungus. <b>2014</b> , 10, e1004078	195
1449	Palaeosymbiosis revealed by genomic fossils of Wolbachia in a strongyloidean nematode. <b>2014</b> , 10, e1004397	40
1448	Duplications and losses in gene families of rust pathogens highlight putative effectors. <b>2014</b> , 5, 299	32
1447	The streamlined genome of Phytomonas spp. relative to human pathogenic kinetoplastids reveals a parasite tailored for plants. <b>2014</b> , 10, e1004007	56
1446	The genome of Spironucleus salmonicida highlights a fish pathogen adapted to fluctuating environments. <b>2014</b> , 10, e1004053	44
1445	Hidden diversity in honey bee gut symbionts detected by single-cell genomics. <b>2014</b> , 10, e1004596	102
1444	Genome update of the dimorphic human pathogenic fungi causing paracoccidioidomycosis. <b>2014</b> , 8, e3348	31
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1442	Phylogenetic Analyses. <b>2014</b> , 93-110	
1441	Elucidation of the molecular responses to waterlogging in Jatropha roots by transcriptome profiling. <b>2014</b> , 5, 658	39
1440	PanGP: a tool for quickly analyzing bacterial pan-genome profile. <b>2014</b> , 30, 1297-9	105
1439	Analysis of the genome and transcriptome of Cryptococcus neoformans var. grubii reveals complex RNA expression and microevolution leading to virulence attenuation. <b>2014</b> , 10, e1004261	<b>2</b> 60
1438	Widespread genome reorganization of an obligate virus mutualist. <b>2014</b> , 10, e1004660	58
1437	Recurrent loss of specific introns during angiosperm evolution. <b>2014</b> , 10, e1004843	17
1436	Nannochloropsis genomes reveal evolution of microalgal oleaginous traits. <b>2014</b> , 10, e1004094	173

1435	Whole-Genome Sequence of Burkholderia sp. Strain RPE67, a Bacterial Gut Symbiont of the Bean Bug Riptortus pedestris. <b>2014</b> , 2,	12
1434	Draft Genome Sequence of Rickettsia aeschlimannii, Associated with Hyalomma marginatum Ticks. <b>2014</b> , 2,	3
1433	Genome Sequence of Rickettsia tamurae, a Recently Detected Human Pathogen in Japan. <b>2014</b> , 2,	6
1432	Complete Genome Sequence of Vibrio vulnificus 93U204, a Bacterium Isolated from Diseased Tilapia in Taiwan. <b>2014</b> , 2,	8
1431	Complete Genome Sequence of Spiroplasma apis B31T (ATCC 33834), a Bacterium Associated with May Disease of Honeybees (Apis mellifera). <b>2014</b> , 2,	18
1430	Genome Sequence of Rickettsia hoogstraalii, a Geographically Widely Distributed Tick-Associated Bacterium. <b>2014</b> , 2,	4
1429	Complete Genome Sequence of Mycobacterium tuberculosis Strain MtURU-001, Isolated from a Rapidly Progressing Outbreak in Uruguay. <b>2014</b> , 2,	
1428	Draft Genome Sequences of Streptococcus agalactiae Strains Isolated from Nile Tilapia (Oreochromis niloticus) Farms in Thailand. <b>2014</b> , 2,	9
1427	Comparison of gene expression of Paramecium bursaria with and without Chlorella variabilis symbionts. <b>2014</b> , 15, 183	42
1426	Metagenome-wide association of microbial determinants of host phenotype in Drosophila melanogaster. <b>2014</b> , 5, e01631-14	86
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1422	Whole-genome sequencing of cultivated and wild peppers provides insights into Capsicum domestication and specialization. <b>2014</b> , 111, 5135-40	466
1421	The complex jujube genome provides insights into fruit tree biology. <b>2014</b> , 5, 5315	155
1420	Phylogenomics of "Candidatus Hepatoplasma crinochetorum," a lineage of mollicutes associated with noninsect arthropods. <b>2014</b> , 6, 407-15	25
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1415	Pathways and substrate-specific regulation of amino acid degradation in Phaeobacter inhibens DSM 17395 (archetype of the marine Roseobacter clade). <b>2014</b> , 16, 218-38	24
1414	Conservation and divergence of gene expression plasticity following c. 140 million years of evolution in lodgepole pine (Pinus contorta) and interior spruce (Picea glaucaPicea engelmannii). <b>2014</b> , 203, 578-591	36
1413	Microsporidia DB. <b>2014</b> , 687-693	
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1411	Acetic acid bacteria genomes reveal functional traits for adaptation to life in insect guts. <b>2014</b> , 6, 912-20	53
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1406	From microbial gene essentiality to novel antimicrobial drug targets. <b>2014</b> , 15, 958	39
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1399	Massive expansion of Ubiquitination-related gene families within the Chlamydiae. <b>2014</b> , 31, 2890-904	26
1398	Phylogenomic study indicates widespread lateral gene transfer in Entamoeba and suggests a past intimate relationship with parabasalids. <b>2014</b> , 6, 2350-60	21
1397	DNA-dependent RNA polymerase detects hidden giant viruses in published databanks. <b>2014</b> , 6, 1603-10	33
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1391	The Apicoplast and Mitochondrion of Toxoplasma gondii. <b>2014</b> , 297-350	5
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1380	Comparative genomics of Taphrina fungi causing varying degrees of tumorous deformity in plants. <b>2014</b> , 6, 861-72	25
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1373	ITEP: an integrated toolkit for exploration of microbial pan-genomes. <b>2014</b> , 15, 8	77
1372	Genome of the human hookworm Necator americanus. <b>2014</b> , 46, 261-269	139
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1361	Comparing effective population sizes of dominant marine alphaproteobacteria lineages. <b>2014</b> , 6, 167-72	23
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1335	Whole-genome sequencing reveals clonal expansion of multiresistant Staphylococcus haemolyticus in European hospitals. <b>2014</b> , 69, 2920-7	33
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1317	Comparative genomics of Riemerella anatipestifer reveals genetic diversity. <b>2014</b> , 15, 479	40
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1301	Structural and functional partitioning of bread wheat chromosome 3B. <b>2014</b> , 345, 1249721	397
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	The genome and life-stage specific transcriptomes of Globodera pallida elucidate key aspects of	
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1298	The genome and life-stage specific transcriptomes of Globodera pallida elucidate key aspects of plant parasitism by a cyst nematode. <b>2014</b> , 15, R43  Genome sequence of the cultivated cotton Gossypium arboreum. <b>2014</b> , 46, 567-72  Comparative exoprotein profiling of different Staphylococcus epidermidis strains reveals potential	155 613
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1286	Transcriptomic analyses reveal the adaptive features and biological differences of guts from two invasive whitefly species. <b>2014</b> , 15, 370	30
1285	Comparative genome analysis of pathogenic and non-pathogenic Clavibacter strains reveals adaptations to their lifestyle. <b>2014</b> , 15, 392	25
1284	Sequencing of transcriptomes from two Miscanthus species reveals functional specificity in rhizomes, and clarifies evolutionary relationships. <b>2014</b> , 14, 134	16
1283	Comparative genomic analysis of the R2R3 MYB secondary cell wall regulators of Arabidopsis, poplar, rice, maize, and switchgrass. <b>2014</b> , 14, 135	42
1282	Genes associated with agronomic traits in non-heading Chinese cabbage identified by expression profiling. <b>2014</b> , 14, 71	17
1281	The complete genome of Blastobotrys (Arxula) adeninivorans LS3 - a yeast of biotechnological interest. <b>2014</b> , 7, 66	50
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1278	Inference of transcriptional networks in Arabidopsis through conserved noncoding sequence analysis. <b>2014</b> , 26, 2729-45	45
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1276	Genomic analysis of the causative agents of coccidiosis in domestic chickens. <i>Genome Research</i> , <b>2014</b> , 24, 1676-85	121
1275	Data showing the compositional complexity of the mitochondrial proteome of a unicellular eukaryote (Acanthamoeba castellanii, supergroup Amoebozoa). <b>2014</b> , 1, 12-4	3
1274	Functional genomic characterization of virulence factors from necrotizing fasciitis-causing strains of Aeromonas hydrophila. <b>2014</b> , 80, 4162-83	39

1273	Genome-wide analysis of the GRAS gene family in Chinese cabbage (Brassica rapa ssp. pekinensis). <b>2014</b> , 103, 135-46	79
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1271	Genomic analyses of pneumococci from children with sickle cell disease expose host-specific bacterial adaptations and deficits in current interventions. <b>2014</b> , 15, 587-599	43
1270	Molecular evolution of the actin-like MreB protein gene family in wall-less bacteria. <b>2014</b> , 446, 927-32	23
1269	The Brassica oleracea genome reveals the asymmetrical evolution of polyploid genomes. <b>2014</b> , 5, 3930	676
1268	Whipworm genome and dual-species transcriptome analyses provide molecular insights into an intimate host-parasite interaction. <b>2014</b> , 46, 693-700	101
1267	Pseudozyma brasiliensis sp. nov., a xylanolytic, ustilaginomycetous yeast species isolated from an insect pest of sugarcane roots. <b>2014</b> , 64, 2159-2168	14
1266	The complete genome sequence of 'Candidatus Liberibacter americanus', associated with Citrus huanglongbing. <b>2014</b> , 27, 163-76	66
1265	De novo transcriptome analysis of the Siberian apricot (Prunus sibirica L.) and search for potential SSR markers by 454 pyrosequencing. <b>2014</b> , 544, 220-7	26
1264	The mitochondrial respiratory chain of the secondary green alga Euglena gracilis shares many additional subunits with parasitic Trypanosomatidae. <b>2014</b> , 19 Pt B, 338-49	48
1263	Comparative genomic analysis provides insights into the evolution and niche adaptation of marine Magnetospira sp. QH-2 strain. <b>2014</b> , 16, 525-44	37
1262	A real-time PCR for detection and quantification of Mycoplasma ovipneumoniae. <b>2014</b> , 76, 1631-4	10
1261	Phosphoproteomic analysis of the non-seed vascular plant model Selaginella moellendorffii. <b>2014</b> , 12, 16	14
1260	Leptospiral pathogenomics. <b>2014</b> , 3, 280-308	57
1259	A draft genome for the African crocodilian trypanosome Trypanosoma grayi. <b>2014</b> , 1, 140024	33
1258	Gene expression of chicken gonads is sex- and side-specific. <b>2014</b> , 8, 178-91	10
1257	Identifying gene clusters by discovering common intervals in indeterminate strings. <b>2014</b> , 15 Suppl 6, S2	4
1256	Complete genome sequence of Planctomyces brasiliensis type strain (DSM 5305(T)), phylogenomic analysis and reclassification of Planctomycetes including the descriptions of Gimesia gen. nov., Planctopirus gen. nov. and Rubinisphaera gen. nov. and emended descriptions of the order	39

1255	Complete genome sequence of DSM 30083(T), the type strain (U5/41(T)) of Escherichia coli, and a proposal for delineating subspecies in microbial taxonomy. <b>2014</b> , 9, 2	267
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1253	TreSpEx-Detection of Misleading Signal in Phylogenetic Reconstructions Based on Tree Information. <b>2014</b> , 10, 51-67	73
1252	The Comparative Genomics and Phylogenomics of Leishmania amazonensis Parasite. <b>2014</b> , 10, 131-53	19
1251	Genomic analysis of Agrobacterium radiobacter DSM 30147(T) and emended description of A. radiobacter (Beijerinck and van Delden 1902) Conn 1942 (Approved Lists 1980) emend. Sawada et al. 1993. <b>2014</b> , 9, 574-84	9
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1249	Orthology and paralogy constraints: satisfiability and consistency. <b>2014</b> , 15 Suppl 6, S12	32
1248	A meta-approach for improving the prediction and the functional annotation of ortholog groups. <b>2014</b> , 15 Suppl 6, S16	16
1247	Whole genome sequence and analysis of the Marwari horse breed and its genetic origin. <b>2014</b> , 15 Suppl 9, S4	17
1246	Evolutionary divergence of core and post-translational circadian clock genes in the pitcher-plant mosquito, Wyeomyia smithii. <b>2015</b> , 16, 754	9
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1244	Mining from transcriptomes: 315 single-copy orthologous genes concatenated for the phylogenetic analyses of Orchidaceae. <b>2015</b> , 5, 3800-7	14
1243	Supergroup C Wolbachia, mutualist symbionts of filarial nematodes, have a distinct genome structure. <b>2015</b> , 5, 150099	26
1242	Genomes of 'Candidatus Liberibacter solanacearum' Haplotype A from New Zealand and the United States Suggest Significant Genome Plasticity in the Species. <b>2015</b> , 105, 863-71	28
1241	Whole-genome sequencing reveals the effect of vaccination on the evolution of Bordetella pertussis. <b>2015</b> , 5, 12888	32
1240	The Plasmodiophora brassicae genome reveals insights in its life cycle and ancestry of chitin synthases. <b>2015</b> , 5, 11153	127
1239	Pangenomic Analysis of the Rhizobiales Using the GET_HOMOLOGUES Software Package. <b>2015</b> , 271-280	
1238	The Azotobacter vinelandii Genome: An Update. <b>2015</b> , 225-234	2

1237	Donkey genome and insight into the imprinting of fast karyotype evolution. <b>2015</b> , 5, 14106	20
1236	Transcriptomes reveal the genetic mechanisms underlying ionic regulatory adaptations to salt in the crab-eating frog. <b>2015</b> , 5, 17551	11
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1234	Comparative differential gene expression analysis of nucleus-encoded proteins for Rafflesia cantleyi against Arabidopsis thaliana. <b>2015</b> ,	
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1232	Comparative genomics Lactobacillus reuteri from sourdough reveals adaptation of an intestinal symbiont to food fermentations. <b>2015</b> , 5, 18234	40
1231	Exploring molecular variation in Schistosoma japonicum in China. <b>2015</b> , 5, 17345	19
1230	Insights into the Transcriptional Architecture of Behavioral Plasticity in the Honey Bee Apis mellifera. <b>2015</b> , 5, 11136	38
1229	Comparative genome analysis reveals the molecular basis of nicotine degradation and survival capacities of Arthrobacter. <b>2015</b> , 5, 8642	20
1228	Gossypium barbadense genome sequence provides insight into the evolution of extra-long staple fiber and specialized metabolites. <b>2015</b> , 5, 14139	165
1227	Comprehensive analysis of the flowering genes in Chinese cabbage and examination of evolutionary pattern of CO-like genes in plant kingdom. <b>2015</b> , 5, 14631	30
1226	Defining the Schistosoma haematobium kinome enables the prediction of essential kinases as anti-schistosome drug targets. <b>2015</b> , 5, 17759	32
1225	LegumeIP: An Integrative Platform for Comparative Genomics and Transcriptomics of Model Legumes. <b>2015</b> , 807-816	2
1224	De Novo Assembly and Characterization of Four Anthozoan (Phylum Cnidaria) Transcriptomes. <b>2015</b> , 5, 2441-52	41
1223	Spatial differentiation of gene expression in Aspergillus niger colony grown for sugar beet pulp utilization. <b>2015</b> , 5, 13592	12
1222	Gene-pseudogene evolution: a probabilistic approach. <b>2015</b> , 16 Suppl 10, S12	3
1221	Reconstructing a SuperGeneTree minimizing reconciliation. <b>2015</b> , 16 Suppl 14, S4	4
1220	Transcriptome sequencing of three Pseudo-nitzschia species reveals comparable gene sets and the presence of Nitric Oxide Synthase genes in diatoms. <b>2015</b> , 5, 12329	48

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1219	Genome analyses of the sunflower pathogen Plasmopara halstedii provide insights into effector evolution in downy mildews and Phytophthora. <b>2015</b> , 16, 741	78
1218	Transcriptome analysis of 20 taxonomically related benzylisoquinoline alkaloid-producing plants. <b>2015</b> , 15, 227	54
1217	Improved orthologous databases to ease protozoan targets inference. <b>2015</b> , 8, 494	1
1216	High quality draft genomic sequence of Flavobacterium enshiense DK69(T) and comparison among Flavobacterium genomes. <b>2015</b> , 10, 92	1
1215	Genetic control of pear rootstock-induced dwarfing and precocity is linked to a chromosomal region syntenic to the apple Dw1 loci. <b>2015</b> , 15, 230	23
1214	IMA Genome-F 4: Draft genome sequences of Chrysoporthe austroafricana, Diplodia scrobiculata, Fusarium nygamai, Leptographium lundbergii, Limonomyces culmigenus, Stagonosporopsis tanaceti, and Thielaviopsis punctulata. <b>2015</b> , 6, 233-48	40
1213	Following the Footsteps of Chlamydial Gene Regulation. <b>2015</b> , 32, 3035-46	17
1212	Genome analysis of Daldinia eschscholtzii strains UM 1400 and UM 1020, wood-decaying fungi isolated from human hosts. <b>2015</b> , 16, 966	12
1211	High quality draft genomic sequence of Arenimonas donghaensis DSM 18148(T). <b>2015</b> , 10, 59	4
1210	Draft genome sequence of Cellulomonas carbonis T26(T) and comparative analysis of six Cellulomonas genomes. <b>2015</b> , 10, 104	5
1209	A host plant genome (Zizania latifolia) after a century-long endophyte infection. 2015, 83, 600-9	36
1208	Complete Genome Sequence of "Candidatus Sulcia muelleri" ML, an Obligate Nutritional Symbiont of Maize Leafhopper (Dalbulus maidis). <b>2015</b> , 3,	11
1207	Analysis of 5' gene regions reveals extraordinary conservation of novel non-coding sequences in a wide range of animals. <b>2015</b> , 15, 227	4
1206	Saprophytic and pathogenic fungi in the Ceratocystidaceae differ in their ability to metabolize plant-derived sucrose. <b>2015</b> , 15, 273	26
1205	Transcriptome analysis of the white pine blister rust pathogen Cronartium ribicola: de novo assembly, expression profiling, and identification of candidate effectors. <b>2015</b> , 16, 678	34
1204	Transcriptome-enabled marker discovery and mapping of plastochron-related genes in Petunia spp. <b>2015</b> , 16, 726	22
1203	Comparative genome analysis of Weissella ceti, an emerging pathogen of farm-raised rainbow trout. <b>2015</b> , 16, 1095	7
1202	Positionally-conserved but sequence-diverged: identification of long non-coding RNAs in the Brassicaceae and Cleomaceae. <b>2015</b> , 15, 217	40

1201	OrthoFinder: solving fundamental biases in whole genome comparisons dramatically improves orthogroup inference accuracy. <b>2015</b> , 16, 157	1591
1200	Comparative genomics of Steinernema reveals deeply conserved gene regulatory networks. <b>2015</b> , 16, 200	53
1199	The first draft genome of the aquatic model plant Lemna minor opens the route for future stress physiology research and biotechnological applications. <b>2015</b> , 8, 188	62
1198	Comparison of the protein-coding gene content of Chlamydia trachomatis and Protochlamydia amoebophila using a Raspberry Pi computer. <b>2015</b> , 8, 561	3
1197	A comparison of the protein-coding genomes of two green sulphur bacteria, Chlorobium tepidum TLS and Pelodictyon phaeoclathratiforme BU-1. <b>2015</b> , 8, 565	2
1196	Genomic information of the arsenic-resistant bacterium Lysobacter arseniciresistens type strain ZS79(T) and comparison of Lysobacter draft genomes. <b>2015</b> , 10, 88	6
1195	High quality draft genome sequence of the moderately halophilic bacterium Pontibacillus yanchengensis Y32(T) and comparison among Pontibacillus genomes. <b>2015</b> , 10, 93	4
1194	Complete Genome Sequence of Spiroplasma cantharicola CC-1T (DSM 21588), a Bacterium Isolated from Soldier Beetle (Cantharis carolinus). <b>2015</b> , 3,	5
1193	BIR Pipeline for Preparation of Phylogenomic Data. <b>2015</b> , 11, 79-83	7
1192	toxoMine: an integrated omics data warehouse for Toxoplasma gondii systems biology research. <b>2015</b> , 2015, bav066	5
1191	Rock, paper, scissors: harnessing complementarity in ortholog detection methods improves comparative genomic inference. <b>2015</b> , 5, 629-38	7
1190	Genome sequence of Valsa canker pathogens uncovers a potential adaptation of colonization of woody bark. <b>2015</b> , 208, 1202-16	74
1189	Patterns of Wnt signaling in the life cycle of Podocoryna carnea and its implications for medusae evolution in Hydrozoa (Cnidaria). <b>2015</b> , 17, 325-36	16
1188	Molecular evolution and species-specific expansion of the NAP members in plants. <b>2015</b> , 57, 673-87	9
1187	PTGBase: an integrated database to study tandem duplicated genes in plants. <b>2015</b> , 2015,	31
1186	DroughtDB: an expert-curated compilation of plant drought stress genes and their homologs in nine species. <b>2015</b> , 2015, bav046	46
1185	Full-length de novo assembly of RNA-seq data in pea (Pisum sativum L.) provides a gene expression atlas and gives insights into root nodulation in this species. <b>2015</b> , 84, 1-19	109
1184	Complete Genome Sequence of Spiroplasma litorale TN-1T (DSM 21781), a Bacterium Isolated from a Green-Eyed Horsefly (Tabanus nigrovittatus). <b>2015</b> , 3,	7

1183	Genomic limitations to RNA sequencing expression profiling. <b>2015</b> , 84, 491-503	17
1182	Draft Genome Sequence of a 16SrII-A Subgroup Phytoplasma Associated with Purple Coneflower (Echinacea purpurea) Witches' Broom Disease in Taiwan. <b>2015</b> , 3,	13
1181	Comparative Genome Analysis Reveals Divergent Genome Size Evolution in a Carnivorous Plant Genus. <b>2015</b> , 8, eplantgenome2015.04.0021	39
1180	Genome-wide identification of evolutionarily conserved alternative splicing events in flowering plants. <b>2015</b> , 3, 33	68
1179	Full Genome Sequence Analysis of Two Isolates Reveals a Novel Xanthomonas Species Close to the Sugarcane Pathogen Xanthomonas albilineans. <b>2015</b> , 6, 714-33	12
1178	Genome-Wide Analysis of Sorbitol Dehydrogenase (SDH) Genes and Their Differential Expression in Two Sand Pear (Pyrus pyrifolia) Fruits. <b>2015</b> , 16, 13065-83	10
1177	A predicted protein interactome identifies conserved global networks and disease resistance subnetworks in maize. <b>2015</b> , 6, 201	21
1176	A taxonomic framework for emerging groups of ecologically important marine gammaproteobacteria based on the reconstruction of evolutionary relationships using genome-scale data. <b>2015</b> , 6, 281	88
1175	Whole-genome comparative analysis of virulence genes unveils similarities and differences between endophytes and other symbiotic bacteria. <b>2015</b> , 6, 419	19
1174	Welcome to pandoraviruses at the 'Fourth TRUC' club. <b>2015</b> , 6, 423	18
1173	Phylogenomics of Xanthomonas field strains infecting pepper and tomato reveals diversity in effector repertoires and identifies determinants of host specificity. <b>2015</b> , 6, 535	94
1172	Pithovirus sibericum, a new bona fide member of the "Fourth TRUC" club. <b>2015</b> , 6, 722	16
1171	Comparative genomic analysis of multiple strains of two unusual plant pathogens: Pseudomonas corrugata and Pseudomonas mediterranea. <b>2015</b> , 6, 811	25
1170	Genetic determinants of heat resistance in Escherichia coli. <b>2015</b> , 6, 932	80
1169	Slow and Fast Evolving Endosymbiont Lineages: Positive Correlation between the Rates of Synonymous and Non-Synonymous Substitution. <b>2015</b> , 6, 1279	14
1168	Pan-Genome Analysis of Brazilian Lineage A Amoebal Mimiviruses. <b>2015</b> , 7, 3483-99	22
1167	Whole-genome optical mapping and finished genome sequence of Sphingobacterium deserti sp. nov., a new species isolated from the Western Desert of China. <b>2015</b> , 10, e0122254	4
1166	Extensive Identification of Bacterial Riboflavin Transporters and Their Distribution across Bacterial Species. <b>2015</b> , 10, e0126124	72

1165	Genome-Wide Transcriptional Profiling of Clostridium perfringens SM101 during Sporulation Extends the Core of Putative Sporulation Genes and Genes Determining Spore Properties and Germination Characteristics. <b>2015</b> , 10, e0127036	10
1164	Reproductive Mode and the Evolution of Genome Size and Structure in Caenorhabditis Nematodes. <b>2015</b> , 11, e1005323	70
1163	The Dynamic Genome and Transcriptome of the Human Fungal Pathogen Blastomyces and Close Relative Emmonsia. <b>2015</b> , 11, e1005493	51
1162	Targeting Lysine Deacetylases (KDACs) in Parasites. <b>2015</b> , 9, e0004026	36
1161	Collembolan Transcriptomes Highlight Molecular Evolution of Hexapods and Provide Clues on the Adaptation to Terrestrial Life. <b>2015</b> , 10, e0130600	19
1160	Transcriptome Analysis of the Emerald Ash Borer (EAB), Agrilus planipennis: De Novo Assembly, Functional Annotation and Comparative Analysis. <b>2015</b> , 10, e0134824	8
1159	Genome Analysis of Pseudomonas fluorescens PCL1751: A Rhizobacterium that Controls Root Diseases and Alleviates Salt Stress for Its Plant Host. <b>2015</b> , 10, e0140231	51
1158	Pangenome Analysis of Burkholderia pseudomallei: Genome Evolution Preserves Gene Order despite High Recombination Rates. <b>2015</b> , 10, e0140274	28
1157	orthoFind Facilitates the Discovery of Homologous and Orthologous Proteins. <b>2015</b> , 10, e0143906	2
1156	Genomic Patterns of Positive Selection at the Origin of Rust Fungi. <b>2015</b> , 10, e0143959	9
1155	De Novo Assembly of Coding Sequences of the Mangrove Palm (Nypa fruticans) Using RNA-Seq and Discovery of Whole-Genome Duplications in the Ancestor of Palms. <b>2015</b> , 10, e0145385	19
1154	Application of a Novel "Pan-Genome"-Based Strategy for Assigning RNAseq Transcript Reads to Staphylococcus aureus Strains. <b>2015</b> , 10, e0145861	8
1153	In Silico Comparative Transcriptome Analysis of Two Color Morphs of the Common Coral Trout (Plectropomus Leopardus). <b>2015</b> , 10, e0145868	9
1152	Leptomonas seymouri: Adaptations to the Dixenous Life Cycle Analyzed by Genome Sequencing, Transcriptome Profiling and Co-infection with Leishmania donovani. <b>2015</b> , 11, e1005127	77
1151	Intraspecies Genomic Diversity and Long-Term Persistence of Bifidobacterium longum. <b>2015</b> , 10, e0135658	27
1150	A novel workflow correlating RNA-seq data to Phythophthora infestans resistance levels in wild Solanum species and potato clones. <b>2015</b> , 6, 718	15
1149	Transcriptome analysis reveals regulatory networks underlying differential susceptibility to Botrytis cinerea in response to nitrogen availability in Solanum lycopersicum. <b>2015</b> , 6, 911	28
1148	Comparative Genomics of Pathogenic and Nonpathogenic Strains of Xanthomonas arboricola Unveil Molecular and Evolutionary Events Linked to Pathoadaptation. <b>2015</b> , 6, 1126	50

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1147	Related Yeast Species. <b>2015</b> , 2015, 748681	11
1146	Genome-Wide Comparative Analysis of Flowering-Related Genes in Arabidopsis, Wheat, and Barley. <b>2015</b> , 2015, 874361	24
1145	Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. <b>2015</b> , 4, e06974	138
1144	The Glycine max cv. Enrei Genome for Improvement of Japanese Soybean Cultivars. <b>2015</b> , 2015, 358127	28
1143	Inside the Pan-genome - Methods and Software Overview. <b>2015</b> , 16, 245-52	51
1142	Population structure of Neisseria gonorrhoeae based on whole genome data and its relationship with antibiotic resistance. <b>2015</b> , 3, e806	58
1141	Comparative genomic analysis of Helicobacter pylori from Malaysia identifies three distinct lineages suggestive of differential evolution. <b>2015</b> , 43, 324-35	21
1140	The evolution of parasitism in Nematoda. <b>2015</b> , 142 Suppl 1, S26-39	146
1139	Employing Phylogenomics to Resolve the Relationships among Cnidarians, Ctenophores, Sponges, Placozoans, and Bilaterians. <b>2015</b> , 55, 1084-95	33
1138	Genome-guided investigation of plant natural product biosynthesis. <b>2015</b> , 82, 680-92	128
1137	Rapid molecular evolution across amniotes of the IIS/TOR network. <b>2015</b> , 112, 7055-60	46
1136	Phytomonas: trypanosomatids adapted to plant environments. <b>2015</b> , 11, e1004484	38
1135	Parallel Epidemics of Community-Associated Methicillin-Resistant Staphylococcus aureus USA300 Infection in North and South America. <b>2015</b> , 212, 1874-82	75
1134	The genomes of closely related Pantoea ananatis maize seed endophytes having different effects on the host plant differ in secretion system genes and mobile genetic elements. <b>2015</b> , 6, 440	44
1133	Genome-wide survey and expression analysis of the PUB family in Chinese cabbage (Brassica rapa ssp. pekinesis). <b>2015</b> , 290, 2241-60	15
1132	High quality reference genome of drumstick tree (Moringa oleifera Lam.), a potential perennial crop. <b>2015</b> , 58, 627-38	40
1131	Transcriptome sequencing of three Ranunculus species (Ranunculaceae) reveals candidate genes in adaptation from terrestrial to aquatic habitats. <b>2015</b> , 5, 10098	19
1130	Genome-wide analysis of AP2/ERF transcription factors in carrot (Daucus carota L.) reveals evolution and expression profiles under abiotic stress. <b>2015</b> , 290, 2049-61	37

1129	Adapting simultaneous analysis phylogenomic techniques to study complex disease gene relationships. <b>2015</b> , 54, 10-38	2
1128	Genomic features separating ten strains of Neorhizobium galegae with different symbiotic phenotypes. <b>2015</b> , 16, 348	9
1127	Antigenicity and immunogenicity of PvRALP1, a novel Plasmodium vivax rhoptry neck protein. <b>2015</b> , 14, 186	7
1126	Genome sequences of the Shiga-like toxin-producing Escherichia coli NCCP15655 and NCCP15656. <b>2015</b> , 7, 13	1
1125	OrthoVenn: a web server for genome wide comparison and annotation of orthologous clusters across multiple species. <b>2015</b> , 43, W78-84	291
1124	Genome-wide analysis reveals diverged patterns of codon bias, gene expression, and rates of sequence evolution in picea gene families. <b>2015</b> , 7, 1002-15	46
1123	Wrangler's user environment: A software framework for management of data-intensive computing system. <b>2015</b> ,	6
1122	Low Temperature Adaptation Is Not the Opposite Process of High Temperature Adaptation in Terms of Changes in Amino Acid Composition. <b>2015</b> , 7, 3426-33	17
1121	Found and Lost: The Fates of Horizontally Acquired Genes in Arthropod-Symbiotic Spiroplasma. <b>2015</b> , 7, 2458-72	28
1120	Combinatorial DNA Rearrangement Facilitates the Origin of New Genes in Ciliates. <b>2015</b> , 7, 2859-70	19
1119	Comparative Genomics of the Genus Porphyromonas Identifies Adaptations for Heme Synthesis within the Prevalent Canine Oral Species Porphyromonas cangingivalis. <b>2015</b> , 7, 3397-413	15
1118	Phylotranscriptomic analyses in plants using Betulaceae as an example. <b>2015</b> , 53, 403-410	4
1117	Scrutinizing the immune defence inventory of Camponotus floridanus applying total transcriptome sequencing. <b>2015</b> , 16, 540	27
1116	Genome sequencing of herb Tulsi (Ocimum tenuiflorum) unravels key genes behind its strong medicinal properties. <b>2015</b> , 15, 212	60
1115	Phylogenomic Analysis of Oenococcus oeni Reveals Specific Domestication of Strains to Cider and Wines. <b>2015</b> , 7, 1506-18	38
1114	Distinctive Genome Reduction Rates Revealed by Genomic Analyses of Two Coxiella-Like Endosymbionts in Ticks. <b>2015</b> , 7, 1779-96	98
1113	SynFind: Compiling Syntenic Regions across Any Set of Genomes on Demand. <b>2015</b> , 7, 3286-98	43
1112	Genome Sequences of Three Helicobacter pylori Strains from Patients with Gastric Mucosa-Associated Lymphoid Tissue Lymphoma. <b>2015</b> , 3,	9

1111	Complete Genome Sequence of Agrobacterium tumefaciens Ach5. <b>2015</b> , 3,	18
1110	Single-molecule sequencing of the desiccation-tolerant grass Oropetium thomaeum. <b>2015</b> , 527, 508-11	208
1109	Hybrid de novo genome assembly of the Chinese herbal plant danshen (Salvia miltiorrhiza Bunge). <b>2015</b> , 4, 62	59
1108	A computational framework for integrative analysis of large microbial genomics data. 2015,	O
1107	Chlamydiaceae Genomics Reveals Interspecies Admixture and the Recent Evolution of Chlamydia abortus Infecting Lower Mammalian Species and Humans. <b>2015</b> , 7, 3070-84	21
1106	Comparative genomic analysis of Leishmania (Viannia) peruviana and Leishmania (Viannia) braziliensis. <b>2015</b> , 16, 715	37
1105	SpirPro: A Spirulina proteome database and web-based tools for the analysis of protein-protein interactions at the metabolic level in Spirulina (Arthrospira) platensis C1. <b>2015</b> , 16, 233	13
1104	Deciphering Genome Content and Evolutionary Relationships of Isolates from the Fungus Magnaporthe oryzae Attacking Different Host Plants. <b>2015</b> , 7, 2896-912	60
1103	Taxon-rich phylogenomic analyses resolve the eukaryotic tree of life and reveal the power of subsampling by sites. <b>2015</b> , 64, 406-15	57
1102	Tiger Swallowtail Genome Reveals Mechanisms for Speciation and Caterpillar Chemical Defense. <b>2015</b> , 10, 910-919	66
1101	Comparative interrogation of the developing xylem transcriptomes of two wood-forming species: Populus trichocarpa and Eucalyptus grandis. <b>2015</b> , 206, 1391-405	40
1100	Pantograph: A template-based method for genome-scale metabolic model reconstruction. <b>2015</b> , 13, 1550006	21
1099	Robust identification of orthologues and paralogues for microbial pan-genomics using GET_HOMOLOGUES: a case study of plncA/C plasmids. <b>2015</b> , 1231, 203-32	26
1098	Biased gene conversion and GC-content evolution in the coding sequences of reptiles and vertebrates. <b>2014</b> , 7, 240-50	43
1097	Draft genome sequence of the intestinal parasite Blastocystis subtype 4-isolate WR1. <b>2015</b> , 4, 22-3	20
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1094	Functional and phylogenetic characterization of proteins detected in various nematode intestinal compartments. <b>2015</b> , 14, 812-27	15

1093	Genome-wide patterns of genetic polymorphism and signatures of selection in Plasmodium vivax. <b>2014</b> , 7, 106-19	27
1092	Draft genome sequence of adzuki bean, Vigna angularis. <b>2015</b> , 5, 8069	95
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1089	The draft genome of Tibetan hulless barley reveals adaptive patterns to the high stressful Tibetan Plateau. <b>2015</b> , 112, 1095-100	102
1088	Integrated genome sequence and linkage map of physic nut (Jatropha curcas L.), a biodiesel plant. <b>2015</b> , 81, 810-21	96
1087	The same or not the same: lineage-specific gene expansions and homology relationships in multigene families in nematodes. <b>2015</b> , 80, 18-36	18
1086	Genomic diversification in strains of Rickettsia felis Isolated from different arthropods. <b>2014</b> , 7, 35-56	46
1085	Comparative proteomic analysis of developing rhizomes of the ancient vascular plant Equisetum hyemale and different monocot species. <b>2015</b> , 14, 1779-91	7
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1070	The bimodal distribution of genic GC content is ancestral to monocot species. <b>2014</b> , 7, 336-48	23
1069	Evolution of gene regulation during transcription and translation. <b>2015</b> , 7, 1155-67	32
1068	Genomic Tools for the Study of Azospirillum and Other Plant Growth-Promoting Rhizobacteria. <b>2015</b> , 83-97	
1067	A combinatorial approach of comprehensive QTL-based comparative genome mapping and transcript profiling identified a seed weight-regulating candidate gene in chickpea. <b>2015</b> , 5, 9264	46
1066	Articulating "Archiannelids": Phylogenomics and Annelid Relationships, with Emphasis on Meiofaunal Taxa. <b>2015</b> , 32, 2860-75	107
1065	GreedyPlus: An Algorithm for the Alignment of Interface Interaction Networks. <b>2015</b> , 5, 12074	
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1059	Functional Diversity of Haloacid Dehalogenase Superfamily Phosphatases from Saccharomyces cerevisiae: BIOCHEMICAL, STRUCTURAL, AND EVOLUTIONARY INSIGHTS. <b>2015</b> , 290, 18678-98	52
1058	Parasitic Plants <i>Striga</i> and <i>Phelipanche</i> Dependent upon Exogenous Strigolactones for Germination Have Retained Genes for Strigolactone Biosynthesis. <b>2015</b> , 06, 1151-1166	9

1057	Global genome and transcriptome analyses of Magnaporthe oryzae epidemic isolate 98-06 uncover novel effectors and pathogenicity-related genes, revealing gene gain and lose dynamics in genome evolution. <b>2015</b> , 11, e1004801	96
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1055	Genome dynamics and evolution of Salmonella Typhi strains from the typhoid-endemic zones. <b>2014</b> , 4, 7457	13
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1049	Systematic analysis of maize class III peroxidase gene family reveals a conserved subfamily involved in abiotic stress response. <b>2015</b> , 566, 95-108	65
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1026	Protocols and Methods for the in Silico Reconstruction of the Origin and Evolution of Metabolic Pathways. <b>2015</b> , 67-75	
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1024	The red coral (Corallium rubrum) transcriptome: a new resource for population genetics and local adaptation studies. <b>2015</b> , 15, 1205-15	37
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1022	Extracellular vesicle-mediated export of fungal RNA. <b>2015</b> , 5, 7763	134

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1014	Homology-independent metrics for comparative genomics. <b>2015</b> , 13, 352-7	9
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1003	Comparative genomic and phenomic analysis of Clostridium difficile and Clostridium sordellii, two related pathogens with differing host tissue preference. <b>2015</b> , 16, 448	15
1002	Chromosomal copy number variation reveals differential levels of genomic plasticity in distinct Trypanosoma cruzi strains. <b>2015</b> , 16, 499	49
1001	The Genome and Methylome of a Beetle with Complex Social Behavior, Nicrophorus vespilloides (Coleoptera: Silphidae). <b>2015</b> , 7, 3383-96	65
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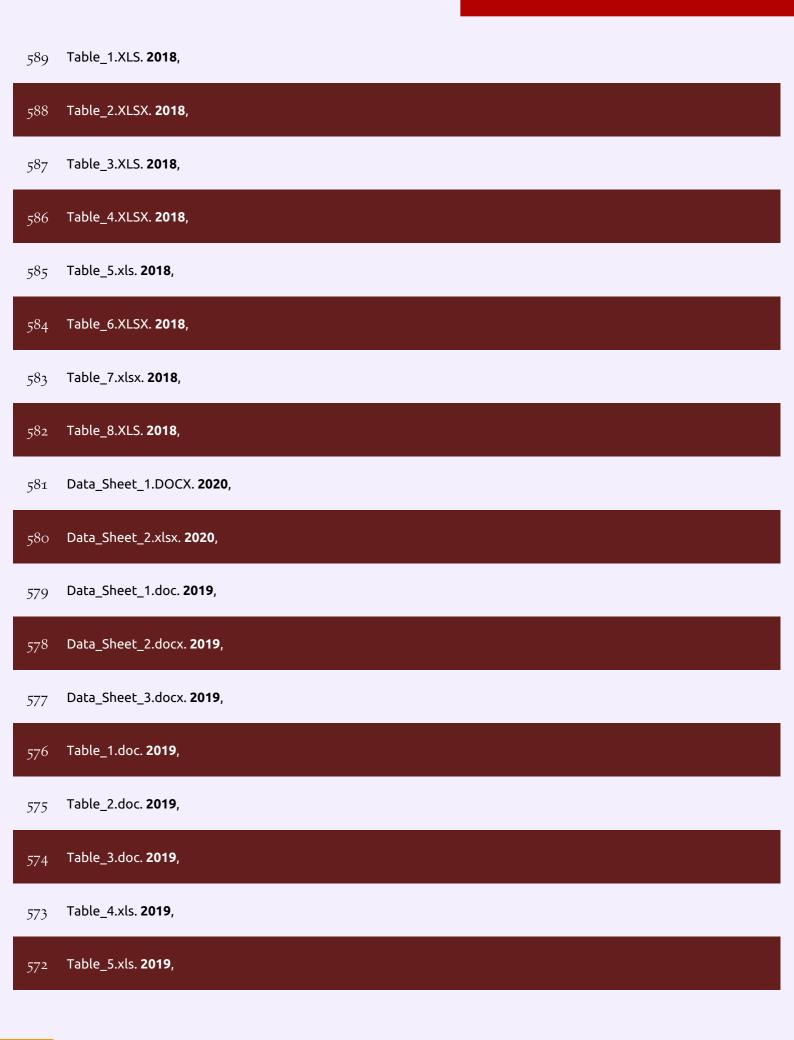
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#### (2018-2018)

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#### (2019-2018)

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355 Table\_4.XLSX. **2018**,

354	Deletion and tandem duplications of biosynthetic genes drive the diversity of triterpenoids in Aralia elata <b>2022</b> , 13, 2224	2
353	Genomes of leafy and leafless Platanthera orchids illuminate the evolution of mycoheterotrophy <b>2022</b> , 8, 373-388	4
352	Optimizing the Parametrization of Homologue Classification in the Pan-Genome Computation for a Bacterial Species: Case Study Streptococcus pyogenes <b>2022</b> , 2449, 299-324	О
351	Molecular Characterization of a Flatworm Girardia Isolate from Guanajuato, Mexico.	
350	Vaginal microbiome-host interactions modeled in a human vagina-on-a-chip.	О
349	The Unusual Metalloprotease-Rich Venom Proteome of the Australian Elapid Snake Hoplocephalus stephensii. <b>2022</b> , 14, 314	О
348	Speciation with gene flow between two Neotropical sympatric species (spp.: Bromeliaceae) <b>2022</b> , 12, e8834	
347	Phase separation driven by interchangeable properties in the intrinsically disordered regions of protein paralogs <b>2022</b> , 5, 400	1
346	Survival and Genome Diversity of Vibrio parahaemolyticus Isolated from Edible Aquatic Animals. <b>2022</b> , 14, 350	1
345	Phylogenomics provides insights into the evolution of cactophily and host plant shifts in Drosophila.	0
344	The genome sequencing and comparative analysis of a wild kiwifruit Actinidia eriantha. 2022, 2,	1
343	sp. nov., a catalase-negative new member of the genus, isolated from Anatolian Ground Squirrel () in Turkey <b>2022</b> , 72,	О
342	ProtPathDB: a Web-based Resource of Parasite Proteases. <b>2022</b> , 17,	
341	The Quest for Orthologs orthology benchmark service in 2022 <b>2022</b> ,	O
340	MLST analysis of genetic diversity of Bacillus coagulans strains to evaluate effects on constipation model. <b>2022</b> , 11, 815-827	o
339	Description of the two novel species of the genus Helicobacter: Helicobacter anatolicus sp. nov., and Helicobacter kayseriensis sp. nov., isolated from feces of urban wild birds <b>2022</b> , 45, 126326	1
338	Giant Starship elements mobilize accessory genes in fungal genomes 2022,	O

337	The chromosome-level genome assembly of the Japanese yellowtail jack Seriola aureovittata provides insights into genome evolution and efficient oxygen transport <b>2022</b> ,	O
336	Modeling the effect of rRNA-mRNA interactions and mRNA folding on mRNA translation in chloroplasts. <b>2022</b> , 20, 2521-2538	
335	Genome-wide translocation events drive the evolution of Candida africana.	
334	Natrinema halophilum sp. nov., Natrinema salinisoli sp. nov., Natrinema amylolyticum sp. nov. and Haloterrigena alkaliphila sp. nov., four extremely halophilic archaea isolated from salt mine, saline soil and salt lake. <b>2022</b> , 72,	1
333	Assessing risk for butterflies in the context of climate change, demographic uncertainty, and heterogenous data sources.	1
332	Comparative genomics of five Valsa species gives insights on their pathogenicity evolution.	
331	Rapid, in-patient adaptations of Legionella pneumophila to the human host.	
330	Effects of Bacillus coagulans GBI-30, 6086 as an adjunct starter culture on the production of yogurt. <b>2022</b> , 111398	1
329	A chromosome-level genome assembly of the pollinating fig wasp Valisia javana. <b>2022</b> , 29,	
328	Transcriptional Divergence Underpinning Sexual Development in the Fungal Class Sordariomycetes.	1
327	Pan-Genomes Provide Insights into the Genetic Basis of Auricularia heimuer Domestication. <b>2022</b> , 8, 581	O
326	Genetic characterization of potential venom resistance proteins in California ground squirrels ( Otospermophilus beecheyi) using transcriptome analyses.	
325	Characterising genome architectures using genome decomposition analysis. 2022, 23,	0
324	Clade-specific genes and the evolutionary origin of novelty; new tools in the toolkit. 2022,	2
323	Chromosome-Level Genome Assembly of Acanthogobius ommaturus Provides Insights Into Evolution and Lipid Metabolism. <b>2022</b> , 9,	
322	Comparative Transcriptomics and Metabolites Analysis of Two Closely Related Euphorbia Species Reveal Environmental Adaptation Mechanism and Active Ingredients Difference. <b>2022</b> , 13,	O
321	Genomic insights into positive selection during barley domestication. 2022, 22,	0
320	High-quality chromosome-level genome assembly of Litsea coreana L. provides insights into Magnoliids evolution and flavonoid biosynthesis. <b>2022</b> , 110394	O

319	Using all gene families vastly expands data available for phylogenomic inference.	0
318	Transcriptome Mining Provides Insights into Cell Wall Metabolism and Fiber Lignification in Agave tequilana Weber. <b>2022</b> , 11, 1496	O
317	Genome, genetic evolution, and environmental adaptation mechanisms of Schizophyllum commune in deep subseafloor coal-bearing sediments. <b>2022</b> , 25, 104417	1
316	Enhancing the Phytoremediation of Heavy Metals by Combining Hyperaccumulator and Heavy Metal-Resistant Plant Growth-Promoting Bacteria. <b>2022</b> , 13,	1
315	Modern vaccine development via reverse vaccinology to combat antimicrobial resistance. <b>2022</b> , 302, 120660	
314	Chromosome-level genome assembly of the black widow spider Latrodectus elegans illuminates composition and evolution of venom and silk proteins. <b>2022</b> , 11,	1
313	Chromosomal-Level Reference Genome of the Moth Heortia Vitessoides (Lepidoptera: Crambidae), A Major Pest of Agarwood-Producing Trees.	
312	A chromosome-level genome assembly of Artocarpus nanchuanensis (Moraceae), an extremely endangered fruit tree. <b>2022</b> , 11,	O
311	The Spruce Budworm Genome: Reconstructing the Evolutionary History of Antifreeze Proteins. <b>2022</b> , 14,	О
310	Genetic Drift and Host-Adaptive Features Likely Underlie the Cladogenesis of Insect-Associated Lachnospiraceae. <b>2022</b> , 14,	1
309	The Antarctic Moss Pohlia nutans Genome Provides Insights Into the Evolution of Bryophytes and the Adaptation to Extreme Terrestrial Habitats. 13,	2
308	A chromosome-level genome assembly for the rabbit tapeworm Taenia pisiformis. 2022, 146650	
307	Expression Profile of Genes Related to the Th17 Pathway in Macrophages Infected by Leishmania major and Leishmania amazonensis: The Use of Gene Regulatory Networks in Modeling This Pathway. 12,	
306	Chromosome-level and haplotype-resolved genome provides insight into the tetraploid hybrid origin of patchouli. <b>2022</b> , 13,	O
305	Transcriptional Basis for Haustorium Formation and Host Establishment in Hemiparasitic Psittacanthus schiedeanus Mistletoes. 13,	
304	Comparative Genomic Analyses Provide Insight Into the Pathogenicity of Metschnikowia bicuspidata LNES0119. 13,	1
303	Gene Conversion Explains Elevated Diversity in the Immunity Modulating APL1 Gene of the Malaria Vector Anopheles funestus. <b>2022</b> , 13, 1102	
302	Genomic Characterization of Lactobacillus delbrueckii Strains with Probiotics Properties. 2,	О

301	Complete genome sequence and phylogenetic analysis of medicinal plant Abrus cantoniensis for evolutionary research and germplasm utilization.	O
300	Heterotrophic Sulfur Oxidation of Halomonas titanicae SOB56 and Its Habitat Adaptation to the Hydrothermal Environment. 13,	O
299	De novo assembly provides new insights into the evolution of Elaeagnus angustifolia L 2022, 18,	0
298	Molecular characterization of a flatworm Girardia isolate from Guanajuato, Mexico. 2022,	1
297	Chromosome-level genome assemblies of four wild peach species provide insights into genome evolution and genetic basis of stress resistance. <b>2022</b> , 20,	2
296	Comparative genomics reveals low levels of inter- and intraspecies diversity in the causal agents of dwarf and common bunt of wheat and hint at conspecificity of Tilletia caries and T. laevis. <b>2022</b> , 13,	O
295	Loci underlying leaf agronomic traits identified by re-sequencing celery accessions based on an assembled genome. <b>2022</b> , 25, 104565	О
294	Pangenome Analysis of Plant Transcripts and Coding Sequences. <b>2022</b> , 121-152	
293	The Manchurian Walnut Genome: Insights into Juglone and Lipid Biosynthesis. 2022, 11,	О
292	An Empirical Study on Graph-Based Clustering Algorithms Using Schizophrenia Genes. <b>2022</b> , 87-106	
291	Integrative genomics analysis of the ever-shrinking pectin methylesterase (PME) gene family in foxtail millet (Setaria italica). <b>2022</b> ,	О
290	Chromosome-level assembly and annotation of the blue catfish Ictalurus furcatus, an aquaculture species for hybrid catfish reproduction, epigenetics, and heterosis studies. <b>2022</b> , 11,	O
289	Searching for Homologous Genes Using Daisychain. <b>2022</b> , 95-101	
288	The autotetraploid potato genome provides insights into highly heterozygous species.	3
287	Marine Microeukaryote Metatranscriptomics: Sample Processing and Bioinformatic Workflow Recommendations for Ecological Applications. 9,	О
286	A chromosome-level genome of Brachymystax tsinlingensis provides resources and insights into salmonids evolution.	
285	A chromosome-level genome assembly of the orange wheat blossom midge, Sitodiplosis mosellana GBin (Diptera: Cecidomyiidae) provides insights into the evolution of a detoxification system.	
284	The genome of Prunus humilis provides new insights to drought adaption and population diversity. <b>2022</b> , 29,	1

283	Multi-Species Transcriptome Assemblies of Cultivated and Wild Lentils (Lens sp.) Provide a First Glimpse at the Lentil Pangenome. <b>2022</b> , 12, 1619	0
282	Phylotranscriptomics Illuminates the Placement of Whole Genome Duplications and Gene Retention in Ferns. 13,	2
281	A chromosome-level genome of Syringa oblata provides new insights into chromosome formation in Oleaceae and evolutionary history of lilacs.	Ο
280	A de novo assembled high-quality chromosome-scale Trifolium pratense genome and fine-scale phylogenetic analysis. <b>2022</b> , 22,	1
279	Complete Genome Sequences of Ezakiella coagulans C0061C1 and Fenollaria massiliensis C0061C2.	О
278	Identification of Peptoniphilus vaginalis-Like Bacteria, Peptoniphilus septimus sp. nov., From Blood Cultures in a Cervical Cancer Patient Receiving Chemotherapy: Case and Implications. 12,	O
277	The chromosome-scale genome of Phoebe bournei reveals contrasting fates of terpene synthase (TPS)-a and TPS-b subfamilies. <b>2022</b> , 100410	1
276	A chromosome-level genome assembly of the jade perch (Scortum barcoo). <b>2022</b> , 9,	
275	A Chromosome-level Assembly of the Japanese Eel Genome, Insights into Gene Duplication and Chromosomal Reorganization.	
274	Haplotype-resolved genome assembly of Bletilla striata (Thunb.) Reichb.f. to elucidate medicinal values.	2
273	Phenotype-genotype analysis of Latilactobacills curvatus from different niches: carbohydrate metabolism, antibiotic resistance, bacteriocin, phage fragments and Linkages with CRISPR-Cas Systems. <b>2022</b> , 111640	1
272	Complete Genome Sequence of Curtobacterium sp. C1, a Beneficial Endophyte with the Potential for In-Plant Salinity Stress Alleviation.	1
271	Whole-Genome Sequencing and Comparative Genome Analysis of Fusarium solani-melongenae Causing Fusarium Root and Stem Rot in Sweetpotatoes.	2
270	Marine gregarine genomes reveal the breadth of apicomplexan diversity with a partially conserved glideosome machinery. <b>2022</b> , 23,	O
269	The chromosome-scale genome provides insights into pigmentation in Acer rubrum. 2022,	
268	Genome sequencing reveals chromosome fusion and extensive expansion of genes related to secondary metabolism in Artemisia argyi.	3
267	Pan-genome analysis of three main Chinese chestnut varieties. 13,	О
266	Genome-wide identification and comparative analysis of MATE gene family in Cucurbitaceae species and their regulatory role in melon (Cucumis melo) under salt stress.	O

265	The genome of Dioscorea zingiberensis sheds light on the biosynthesis, origin and evolution of the medicinally important diosgenin saponins.	1
264	Genomic divergence of Stellera chamaejasme through local selection across the Qinghai-Tibet Plateau and northern China.	1
263	Chromosome-level genome assembly of the Butter clam Saxidomus purpuratus.	
262	A chromosome-level genome assembly of Styphnolobium japonicum combined with comparative genomic analyses offers insights on the evolution of flavonoid and lignin biosynthesis. <b>2022</b> , 187, 115336	
261	Insights into chromosomal evolution and sex determination of Pseudobagrus ussuriensis (Bagridae, Siluriformes) based on a chromosome-level genome. <b>2022</b> , 29,	
260	Chromosome-level genome of Tibetan naked carp (Gymnocypris przewalskii) provides insights into Tibetan highland adaptation. <b>2022</b> , 29,	O
259	Comparative genomic analysis of Echinococcus multilocularis with other tapeworms.	
258	Chromosomal-level reference genome of the moth Heortia vitessoides (Lepidoptera: Crambidae), a major pest of agarwood-producing trees. <b>2022</b> , 114, 110440	
257	Testing candidate genes linked to corolla shape variation of a pollinator shift in Rhytidophyllum (Gesneriaceae). <b>2022</b> , 17, e0267540	1
256	Comparative Analysis of Enzyme Production Patterns of Lignocellulose Degradation of Two White Rot Fungi: Obba rivulosa and Gelatoporia subvermispora. <b>2022</b> , 12, 1017	2
255	Comparative genomics reveals the molecular mechanism of salt adaptation for zoysiagrasses. <b>2022</b> , 22,	
254	Effectors from a Bacterial Vector-Borne Pathogen Exhibit Diverse Subcellular Localization, Expression Profiles and Manipulation of Plant Defense.	
253	Complete gammaproteobacterial endosymbiont genome assembly from a seep tubeworm Lamellibrachia satsuma. <b>2022</b> , 60, 916-927	
252	Signatures of adaptive evolution in platyrrhine primate genomes. <b>2022</b> , 119,	1
251	Nuclear-specific gene expression in heterokaryons of the filamentous ascomycete Neurospora tetrasperma. <b>2022</b> , 289,	
250	Chromosomal-level genome of velvet bean (Mucuna pruriens) provides resources for L-DOPA synthetic research and development.	1
249	Bioinformatics and its role in the study of the evolution and probiotic potential of lactic acid bacteria.	2
248	A High-Quality Genome Assembly of Sorghum dochna. 13,	O

247	Dysfunction of Ras-GAP protein AfgapA contributes to hypoxia fitness in Aspergillus fumigatus.	
246	Chromosome-level genome assembly and population genomic analyses provide insights into adaptive evolution of the red turpentine beetle, Dendroctonus valens. <b>2022</b> , 20,	o
245	Complete genome sequence of a multiple-stress-tolerant bacterium Halomonas piezotolerans NBT06E8T isolated from a deep-sea sediment sample of the New Britain Trench. <b>2022</b> , 12,	
244	Comparative genome and evolution analyses of an endangered stony coral species Dendrophyllia cribrosa near Dokdo Islands in the East Sea.	
243	De Novo Whole-Genome Sequencing and Assembly of the Yellow-Throated Bunting (Emberiza elegans) Provides Insights into Its Evolutionary Adaptation. <b>2022</b> , 12, 2004	
242	Comparative analysis reveals distinctive genomic features of Taiwan hot-spring cyanobacterium Thermosynechococcus sp. TA-1. 13,	
241	Behavioral innovation and genomic novelty are associated with the exploitation of a challenging dietary opportunity by an avivorous bat. <b>2022</b> , 104973	O
240	Whole-Genome Sequence of Beauveria bassiana JEF-350, a Strain with High Insecticidal Activity against Melon Thrips (Thrips palmi).	
239	De Novo Long-Read Whole-Genome Assemblies and the Comparative Pan-Genome Analysis of Ascochyta Blight Pathogens Affecting Field Pea. <b>2022</b> , 8, 884	
238	Citrus Pan-genome to Breeding Database (CPBD): A comprehensive genome database for citrus breeding. <b>2022</b> ,	2
237	Metabacillus rhizolycopersici sp. nov., Isolated from the Rhizosphere Soil of Tomato Plants. <b>2022</b> , 79,	
236	The Chromosome-based Genome of Paspalum vaginatum Provides New Insights into Salt-stress Adaptation.	1
235	Improved genome assembly provides new insights into the environmental adaptation of the American cockroach, Periplaneta americana.	0
234	HSDatabase 🖟 database of highly similar duplicate genes from plants, animals, and algae.	
233	The De Novo Genome Assembly of Olea europaea subsp. cuspidate, a Widely Distributed Olive Close Relative. 13,	1
232	A chromosome-level genome assembly provides insights into the environmental adaptability and outbreaks of Chlorops oryzae. <b>2022</b> , 5,	
231	Insights into adaptive divergence of Japanese mantis shrimp Oratosquilla oratoria inferred from comparative analysis of full-length transcriptomes. 9,	
230	Genomic Analysis Reveals Adaptation of Vibrio campbellii to the Hadal Ocean. 2022, 88,	

229	Exploring the medicinally important secondary metabolites landscape through the lens of transcriptome data in fenugreek (Trigonella foenum graecum L.). <b>2022</b> , 12,	О
228	Comprehensive genome sequence analysis of the devastating tobacco bacterial phytopathogen Ralstonia solanacearum strain FJ1003. 13,	
227	Chromosome-level assembly of Gymnocypris eckloni genome. <b>2022</b> , 9,	Ο
226	A chromosome-level genome of the helmet catfish (Cranoglanis bouderius). 13,	O
225	Genomic investigation of the Chinese alligator reveals wild-extinct genetic diversity and genomic consequences of their continuous decline.	O
224	Shewanella oncorhynchi sp. nov., a novel member of the genus Shewanella, isolated from Rainbow Trout (Oncorhynchus mykiss). <b>2022</b> , 72,	1
223	Genomic and transcriptomic analyses provide insights into valuable fatty acid biosynthesis and environmental adaptation of yellowhorn. 13,	0
222	Testing Phylogenetic Stability with Variable Taxon Sampling. <b>2022</b> , 167-188	O
221	Reconstructing Gene Gains and Losses with BadiRate. <b>2022</b> , 213-232	О
220	Chromosomal-level genome of macadamia (<i>Macadamia integrifolia</i>). <b>2022</b> , 1, 1-9	O
219	Genomic and phenotypic evolution of nematode-infecting microsporidia.	0
218	Chromosome-Level Genome Assembly of a Fragrant Japonica Rice Cultivar Changxianggeng 1813 Provides Insights into Genomic Variations between Fragrant and Non-Fragrant Japonica Rice. <b>2022</b> , 23, 9705	O
217	Co-obligate symbioses have repeatedly evolved across aphids, but partner identity and nutritional contributions vary across lineages.	0
216	Comparative analysis of 31 Streptococcus gallolyticus strains uncovers their potential risks from the perspectives of virulence factors and antibiotic resistance genes.	0
215	Multi-omics provides new insights into the domestication and improvement of dark jute (Corchorus olitorius).	0
214	Synteny identifies reliable orthologs for phylogenomics and comparative genomics of the Brassicaceae.	O
213	Comparative Genome Analysis Reveals the Genomic Basis of Semi-Aquatic Adaptation in American Mink (Neovison vison). <b>2022</b> , 12, 2385	1
212	Transcriptome analysis provides insight into adaptive mechanisms of scallops under environmental stress. 9,	1

211	The complete mitochondrial genome of Isochrysis galbana harbors a unique repeat structure and a specific trans-spliced cox1 gene. 13,	O
210	First Report and Comparative Genomic Analysis of a Mycoplasma mycoides Subspecies capri HN-A in Hainan Island. <b>2022</b> , 10, 1908	O
209	The giant diploid faba genome unlocks variation in a global protein crop.	О
208	Cluster-driven evolution and modularity uncover paths of cholera emergence.	O
207	Development and Optimization of a Selective Whole-Genome Amplification To Study Plasmodium ovale Spp	О
206	Jack of all trades: genome assembly of Wild Jack and comparative genomics of Artocarpus.	0
205	The genetic architecture of phenotypic diversity in the Betta fish (Betta splendens). 2022, 8,	1
204	Elevation of Clavibacter michiganensis subsp. californiensis to species level as Clavibacter californiensis sp. nov., merging and re-classification of Clavibacter michiganensis subsp. chilensis and Clavibacter michiganensis subsp. phaseoli as Clavibacter phaseoli sp. nov. based on complete	O
203	Transcriptome profiling of barley and tomato shoot and root meristems unravels physiological variations underlying photoperiodic sensitivity. <b>2022</b> , 17, e0265981	0
202	IPGA: A handy integrated prokaryotes genome and pan-genome analysis web service.	1
201	TOGA integrates gene annotation with orthology inference at scale.	1
200	The coral Acropora loripes genome reveals an alternative pathway for cysteine biosynthesis in animals. <b>2022</b> , 8,	O
199	De novo assembly and annotation of the CHOZN $\hfill\Box$ GS $\hfill\Box$ genome supports high-throughput genome-scale screening.	О
198	Chromosome-level genome assembly and functional characterization of terpene synthases provide insights into the volatile terpenoid biosynthesis of Wurfbainia villosa.	O
197	The chromosome-level genome of Water-Wisteria establishes an ecological plant model and provides insight into the molecular mechanisms underlying heterophylly in amphibious plants.	О
196	A genome for Cissus illustrates features underlying the evolutionary success in dry savannas.	O
195	Chromosome-level genome assembly and resequencing of camphor tree (Cinnamomum camphora) provides insight into phylogeny and diversification of terpenoid and triglyceride biosynthesis of Cinnamomum.	О
194	Pan-Genome Analysis of Campylobacter: Insights on the Genomic Diversity and Virulence Profile.	O

193	Identification of Candidate Ice Nucleation Activity (INA) Genes in Fusarium avenaceum by Combining Phenotypic Characterization with Comparative Genomics and Transcriptomics. <b>2022</b> , 8, 958	O
192	A chromosome-level genome assembly of the potato grouper (Epinephelus tukula). <b>2022</b> , 114, 110473	O
191	Evolution of isoform-level gene expression patterns across tissues during lotus species divergence.	O
190	Pan-genome evolution and its association with divergence of metabolic functions in Bifidobacterium genus. <b>2022</b> , 38,	O
189	Novel genome sequence of Chinese cavefish (Triplophysa rosa) reveals pervasive relaxation of natural selection in cavefish genomes.	0
188	The draft genome and multi-omics analyses reveal new insights into geo-herbalism properties of Citrus grandis ¶omentosa[ <b>2022</b> , 111489	O
187	Comparative genomics of Sarcoptes scabiei provide new insights into adaptation to permanent parasitism and within-host species divergence.	1
186	A chromosome-level genome assembly for Dracaena cochinchinesis reveals molecular basis of its longevity and formation of dragon blood. <b>2022</b> , 100456	O
185	Comparative transcriptomics analysis pipeline for the meta-analysis of phylogenetically divergent datasets (CoRMAP). <b>2022</b> , 23,	0
184	The complex genome and adaptive evolution of polyploid Chinese pepper (Zanthoxylum armatum and Zanthoxylum bungeanum).	O
183	HSDatabasell database of highly similar duplicate genes from plants, animals, and algae. <b>2022</b> , 2022,	0
182	Phylogenomics provides insights into the evolution of cactophily and host plant shifts in Drosophila. <b>2022</b> , 107653	O
181	Chromosome-Level Assembly of Male Opsariichthys bidens Genome Provides Insights into the Regulation of the GnRH Signaling Pathway and Genome Evolution. <b>2022</b> , 11, 1500	0
180	Population genomics of an icefish reveals mechanisms of glacier-driven adaptive radiation in Antarctic notothenioids. <b>2022</b> , 20,	1
179	EchinoDB: an update to the web-based application for genomic and transcriptomic data on echinoderms. <b>2022</b> , 23,	0
178	Whole-genome sequencing and comparative genomic analysis of a pathogenic Enterocytozoon hepatopenaei strain isolated from Litopenaeus vannamei.	O
177	The chromosome-level genome of Akebia trifoliata as an important resource to study plant evolution and environmental adaptation in the Cretaceous.	2
176	Identification of shared bacterial strains in the vaginal microbiota of related and unrelated reproductive-age mothers and daughters using genome-resolved metagenomics. <b>2022</b> , 17, e0275908	O

175	Chinese fir genome and the evolution of gymnosperms.	1
174	OrthoSNAP: A tree splitting and pruning algorithm for retrieving single-copy orthologs from gene family trees. <b>2022</b> , 20, e3001827	О
173	Genomic insights into the physiology of Quinella, an iconic uncultured rumen bacterium. 2022, 13,	0
172	The Chromosome-level genome of Aesculus wilsonii provides new insights into terpenoid biosynthesis and Aesculus evolution. 13,	Ο
171	Integrated Omic Approaches Reveal Molecular Mechanisms of Tolerance during Soybean and Meloidogyne incognita Interactions. <b>2022</b> , 11, 2744	0
170	Haladaptatus halobius sp. nov. and Haladaptatus salinisoli sp. nov., two extremely halophilic archaea isolated from Gobi saline soil. <b>2022</b> , 72,	O
169	De novo genome assembly and annotation of Holothuria scabra (Jaeger, 1833) from nanopore sequencing reads.	O
168	De-novo genome assembly and annotation of sobaity seabream Sparidentex hasta. 13,	Ο
167	An overview of online resources for intra-species detection of gene duplications. 13,	Ο
166	A Chromosome-Scale Genome Assembly of Mitragyna speciosa (Kratom) and the Assessment of Its Genetic Diversity in Thailand. <b>2022</b> , 11, 1492	1
165	Massive genome investigations reveal insights of prevalent introgression for environmental adaptation and triterpene biosynthesis in Ganoderma.	O
164	Thirteen Dipterocarpoideae genomes provide insights into their evolution and borneol biosynthesis. <b>2022</b> , 100464	O
163	A chromosome-level genome of Semiothisa cinerearia provides insights into its genome evolution and control. <b>2022</b> , 23,	0
162	Comparative transcriptome and proteome analyses of the longissimus dorsi muscle for explaining the difference between donkey meat and other meats. 1-14	O
161	Genome Evolution of a Symbiont Population for Pathogen Defence in Honeybees.	0
160	The GEN-ERA toolbox: unified and reproducible workflows for research in microbial genomics.	O
159	CRISPR-based oligo recombineering prioritizes apicomplexan cysteines for drug discovery. <b>2022</b> , 7, 1891-190	)5 1
158	Comparative genomic analysis of 31 Phytophthora genomes reveal genome plasticity and horizontal gene transfer.	Ο

157	Worms and gills, plates and spines: the evolutionary origins and incredible disparity of deuterostomes revealed by fossils, genes, and development.	O
156	In-silico approach of identifying novel therapeutic targets against Yersinia pestis using pan and subtractive genomic analysis. <b>2022</b> , 107784	O
155	Chromosome-level genome assembly of the bar-headed goose (Anser indicus). 2022, 9,	0
154	Phylogenomics as an effective approach to untangle cross-species hybridization event: A case study in the family Nymphaeaceae. 13,	O
153	A secreted protease-like protein inZymoseptoria triticiis responsible for avirulence onStb9resistance gene in wheat.	О
152	Olfactory and gustatory receptor genes in fig wasps: Evolutionary insights from comparative studies. <b>2023</b> , 850, 146953	O
151	The whole-genome assembly of an endangered Salicaceae species: Chosenia arbutifolia (Pall.) A. Skv. <b>2022</b> , 11,	1
150	The Soursop Genome (Annona muricata L., Annonaceae). <b>2022</b> , 149-174	O
149	Identification of sex-linked marker and candidate sex determination gene in ornamental fish, African scat (Scatophagus tetracanthus). <b>2023</b> , 563, 739023	0
148	Whole-genome assembly and annotation for the little yellow croaker (Larimichthys polyactis) provide insights into the evolution of hermaphroditism and gonochorism.	O
147	NGSEP 4: Efficient and accurate identification of orthogroups and whole-genome alignment.	O
146	A high-quality chromosome-level genome assembly of Pelteobagrus vachelli provides insights into its environmental adaptation and population history. 13,	O
145	CoreGenes5.0: An Updated User-Friendly Webserver for the Determination of Core Genes from Sets of Viral and Bacterial Genomes. <b>2022</b> , 14, 2534	3
144	Chromosome-level genome assembly of Dongxiang wild rice (Oryza rufipogon) provides insights into resistance to disease and freezing. 13,	1
143	Flagellar genes are associated with the colonization persistence phenotype of theDrosophila melanogastermicrobiota.	O
142	Whole-genome resequencing reveals complex effects of geographic-paleoclimatic interactions on diversification of Moustache toads in East Asia.	O
141	De nova assembly, annotation and comparative genomics study on the draft genome of Indian brackish water shrimp Caridina pseudogracilirostris.	0
140	HGTree v2.0: a comprehensive database update for horizontal gene transfer (HGT) events detected by the tree-reconciliation method.	O

139	Deciphering divergent trypanosomatid nuclear complexes by analyzing interactomic datasets with AlphaFold2 and genetic approaches.	O
138	Co-occurrence of essential gene dispensability and bypass suppressor mutations across species.	О
137	Metagenome-assembled genome extraction and analysis from microbiomes using KBase.	О
136	OrthoDB v11: annotation of orthologs in the widest sampling of organismal diversity.	О
135	Dissection of Besnoitia besnoiti intermediate host life cycle stages: From morphology to gene expression. <b>2022</b> , 18, e1010955	1
134	PlantTribes2: tools for comparative gene family analysis in plant genomics.	О
133	Purging genomes of contamination eliminates systematic bias from evolutionary analyses of ancestral genomes.	О
132	A Chromosome-level assembly of the Japanese eel genome, insights into gene duplication and chromosomal reorganization. <b>2022</b> , 11,	2
131	Transcriptomics-based Analysis of the Response of Sugar Content in Litchi Pulp to Foliar Calcium Fertilizer Treatment. <b>2023</b> , 148, 9-20	О
130	Chromosomal-level genome and multi-omics dataset provides new insights into leaf pigmentation in Acer palmatum. <b>2023</b> , 227, 93-104	О
129	New Papiliotrema laurentii UFV-1 strains with improved acetic acid tolerance selected by adaptive laboratory evolution. <b>2023</b> , 164, 103765	О
128	Phylogeny Trees as a Tool to Compare Inference Algorithms of Orthologs. <b>2022</b> , 128-139	О
127	First Report and Comparative Genomic Analysis of Mycoplasma capricolum subsp. capricolum HN-B in Hainan Island, China. <b>2022</b> , 10, 2298	0
126	Chromosome-Level Genome Assembly and Multi-Omics Dataset Provide Insights into Isoflavone and Puerarin Biosynthesis in Pueraria lobata (Wild.) Ohwi. <b>2022</b> , 12, 1731	О
125	Evolutionary Diversity of Dus2 Enzymes Reveals Novel Structural and Functional Features among Members of the RNA Dihydrouridine Synthases Family. <b>2022</b> , 12, 1760	0
124	Genomic basis of the giga-chromosomes and giga-genome of tree peony Paeonia ostii. 2022, 13,	О
123	Comparative Genomics Reveal the Utilization Ability of Variable Carbohydrates as Key Genetic Features of Listeria Pathogens in Their Pathogenic Lifestyles. <b>2022</b> , 11, 1430	0
122	Vaginal microbiome-host interactions modeled in a human vagina-on-a-chip. <b>2022</b> , 10,	1

121	Functional diversification despite structural congruence in the HipBST toxin-antitoxin system of Legionella pneumophila.	О
120	The first genome sequence of Phomopsis vexans: a fungal pathogen causing Phomopsis blight in eggplant.	1
119	A new order, Entrophosporales, and three new Entrophospora species in Glomeromycota. 13,	О
118	Phylogenomics and the flowering plant tree of life.	1
117	Identification of Novel Bile Salt-Tolerant Genes in Lactobacillus Using Comparative Genomics and Its Application in the Rapid Screening of Tolerant Strains. <b>2022</b> , 10, 2371	1
116	Diverse, abundant and stable coastal RNA viruses identified by spatiotemporal metatranscriptomics.	О
115	Reverse genetics identifies proteins regulating lipid droplet biogenesis via amphipathic helices.	О
114	Genomics of Preaxostyla Flagellates Illuminates Evolutionary Transitions and the Path Towards Mitochondrial Loss.	1
113	A draft genome of the medicinal plant Cremastra appendiculata (D. Don) provides insights into the colchicine biosynthetic pathway. <b>2022</b> , 5,	О
112	A conserved complex of microneme proteins mediates rhoptry discharge inToxoplasma.	О
111	Different Effects of Different Lactobacillus acidophilus Strains on DSS-Induced Colitis. <b>2022</b> , 23, 14841	О
110	Comparative genomics of five Valsa species gives insights on their pathogenicity evolution.	О
109	Comparative Genomics for Evolutionary Cell Biology Using AMOEBAE: Understanding the Golgi and Beyond. <b>2023</b> , 431-452	О
108	Linolenic Acid-Derived Oxylipins Inhibit Aflatoxin Biosynthesis in Aspergillus flavus through Activation of Imizoquin Biosynthesis. <b>2022</b> , 70, 15928-15944	O
107	The draft genome of Andean Rhodopseudomonas sp. strain AZUL predicts genome plasticity and adaptation to chemical homeostasis. <b>2022</b> , 22,	O
106	Molecular evolution and signatures of selective pressures on Bos, focusing on the Nelore breed (Bos indicus). <b>2022</b> , 17, e0279091	O
105	Actin cytoskeleton and complex cell architecture in an Asgard archaeon.	О
104	Whole-genome analysis revealed the growth-promoting mechanism of endophytic bacterial strain Q2H1 in potato plants. 13,	O

103	Karyotype evolution of the Asterids insights from the first genome sequences of the family Cornaceae.	О
102	A highly quality genome sequence of Penicillium oxalicum species isolated from the root of Ixora chinensis in Vietnam.	О
101	Transcriptome Analysis on the Underlying Physiological Mechanism of Calcium and Magnesium Resolving Bugar Receding In Beizixiao Litchi Pulp. <b>2022</b> , 8, 1197	О
100	Jack of all trades: Genome assembly of Wild Jack and comparative genomics of Artocarpus. 13,	О
99	Syringa oblata genome provides new insights into molecular mechanism of flower color differences among individuals and biosynthesis of its flower volatiles. 13,	О
98	The Sugar Metabolic Model of Aspergillus niger Can Only Be Reliably Transferred to Fungi of Its Phylum. <b>2022</b> , 8, 1315	О
97	Differences in genetic flux in invasive Streptococcus pneumoniae associated with bacteraemia and meningitis. <b>2022</b> , 8, e12229	0
96	Haploid-resolved and chromosome-scale genome assembly in hexa-autoploid sweetpotato (Ipomoea batatas (L.) Lam).	О
95	High-quality genome of Diaphanosoma dubium provides insights into molecular basis of its broad ecological adaptation. <b>2023</b> , 106006	0
94	A chromosome-level genome assembly of the Henosepilachna vigintioctomaculata provides insights into the evolution of ladybird beetles.	О
93	Biased mutations and gene losses underlying diploidization of the tetraploid broomcorn millet genome.	О
92	Sipunculus nudus genome provides insights into evolution of spiralian phyla and development. 9,	O
91	Comparative transcriptome analyses of three Gentiana species provides signals for the molecular footprints of selection effects and the phylogenetic relationships.	О
90	Profiling the bloodstream form and procyclic formTrypanosoma bruceicell cycle using single cell transcriptomics.	O
89	Comprehensive analysis of 84 Faecalibacterium prausnitzii strains uncovers their genetic diversity, functional characteristics, and potential risks. 12,	О
88	Single-cell transcriptomics unveils xylem cell development and evolution. 2023, 24,	O
87	A chromosome-level genome assembly of radish (Raphanus sativus L.) reveals insights into genome adaptation and differential bolting regulation.	О
86	Legionella maioricensis sp. nov., a new species isolated from the hot water distribution systems of a hospital and a shopping center during routine sampling. <b>2023</b> , 73,	O

85	High-quality genome sequence reveals a young polyploidization and provides insights into cellulose and lignin biosynthesis in water dropwort (Oenanthe sinensis). <b>2023</b> , 193, 116203	0
84	Phylogenomic resolution of order- and family-level monocot relationships using 602 single-copy nuclear genes and 1375 BUSCO genes. 13,	O
83	Phylotranscriptomic analyses of mycoheterotrophic monocots show a continuum of convergent evolutionary changes in expressed nuclear genes from three independent nonphotosynthetic lineages.	О
82	Genomic insight into Myroides oncorhynchi sp. nov., a new member of the Myroides genus, isolated from the internal organ of rainbow trout (Oncorhynchus mykiss).	O
81	Characterization and acceleration of genome shuffling and ploidy reduction in synthetic allopolyploids by genome sequencing and editing. <b>2023</b> , 51, 198-217	O
80	The Chromosome-Scale Genomes of Exserohilum rostratum and Bipolaris zeicola Pathogenic Fungi Causing Rice Spikelet Rot Disease. <b>2023</b> , 9, 177	O
79	Resolving the haplotypes of arbuscular mycorrhizal fungi highlights the role of two nuclear populations in host interactions.	О
78	PlantTribes2: Tools for comparative gene family analysis in plant genomics. 13,	O
77	Population genetic analysis of the microsporidium Ordospora colligata reveals the role of natural selection and phylogeography on its extremely compact and reduced genome.	O
76	A Robust Methodology for Assessing Homoeolog-Specific Expression. <b>2023</b> , 251-258	O
75	Leveraging genomic redundancy to improve inference and alignment of orthologous proteins.	O
74	Characterization and genome-wide sequence analysis of an ectomycorrhizal fungus Pisolithus albus, a potential source for reclamation of degraded lands. <b>2023</b> , 13,	O
73	A novel order-level lineage of ammonia-oxidizingThaumarchaeotais widespread in marine and terrestrial environments.	O
7 <sup>2</sup>	Spatial-temporal expression analysis of lineage-restricted shell matrix proteins reveals shell field regionalization and distinct cell populations in the slipper snailCrepidula atrasolea.	O
71	Chromosome-level genome assembly provides insights into adaptive evolution of chromosome and important traits in the geckoGekko japonicus.	O
70	Gossypium purpurascens genome provides insight into the origin and domestication of upland cotton. <b>2023</b> ,	O
69	Analyses of a chromosome-scale genome assembly reveal the origin and evolution of cultivated chrysanthemum. <b>2023</b> , 14,	О
68	Whole-genome sequencing and analysis of Apocynum cannabinum.	O

67	The genome sequence and demographic history of Przewalskia tangutica (Solanaceae), an endangered alpine plant on the Qinghai-Tibet Plateau.	O
66	Chromosome-level genome of the bean bug Megacopta cribraria in native range, provides insights into adaptation and pest management. <b>2023</b> , 237, 123989	O
65	Phylogenomic analyses of Camellia support reticulate evolution among major clades. <b>2023</b> , 182, 107744	O
64	Seeing is believing: Understanding functions of NPR1 and its paralogs in plant immunity through cellular and structural analyses. <b>2023</b> , 73, 102352	O
63	Insights into identifying resistance genes for cold and disease stresses through chromosome-level reference genome analyses of Poncirus polyandra. <b>2023</b> , 115, 110617	0
62	The Populus koreana genome provides insights into the biosynthesis of plant aroma. <b>2023</b> , 197, 116453	O
61	Sugars and sucrose transporters in pollinia of Phalaenopsis aphrodite (Orchidaceae). 2023, 74, 2556-2571	O
60	Apical Secretory Glycoprotein Complex Contributes to Cell Attachment and Entry by Cryptosporidium parvum. <b>2023</b> , 14,	O
59	The chromosome-level genome and key genes associated with mud-dwelling behavior and adaptations of hypoxia and noxious environments in loach (Misgurnus anguillicaudatus). <b>2023</b> , 21,	O
58	Inference of Ancient Polyploidy from Genomic Data. <b>2023</b> , 3-18	O
57	Genome-based reclassification of Anoxybacillus salavatliensis Cihan et al. 2011 as a later heterotypic synonym of Anoxybacillus gonensis Belduz et al. 2003.	0
56	Chromosome-Level Assembly of Flowering Cherry (Prunus campanulata) Provides Insight into Anthocyanin Accumulation. <b>2023</b> , 14, 389	O
55	PANAS: Pipeline and a Case Study to Obtain Synonymous and Nonsynonymous Substitution Rates in Genes of Platyhelminthes. <b>2023</b> , 90,	О
54	Interplay between transcriptional regulators and VapBC toxinantitoxin loci during thermal stress response in extremely thermoacidophilic archaea.	O
53	Genome and haplotype provide insights into the population differentiation and breeding improvement of Gossypium barbadense. <b>2023</b> ,	0
52	The genome of Magnolia hypoleuca provides a new insight into cold tolerance and the evolutionary position of magnoliids. 14,	O
51	Genome assembly, resequencing and genome-wide association analyses provide novel insights into the origin, evolution and flower colour variations of flowering cherry.	O
50	An improved reference genome for Trifolium subterraneum L. provides insight into molecular diversity and intra-specific phylogeny. 14,	O

49	Physiological and genomic insights into abiotic stress of halophilic archaeon Natrinema altunense 4.1R isolated from a saline ecosystem of Tunisian desert. <b>2023</b> , 151, 133-152	o
48	Genomic diversity in Fructobacillus spp. isolated from fructose-rich niches. <b>2023</b> , 18, e0281839	О
47	Identification and Phylogenetic Analysis of the R2R3-MYB Subfamily in Brassica napus. <b>2023</b> , 12, 886	0
46	OrthoPhy: A Program to Construct Ortholog Data Sets Using Taxonomic Information. 2023, 15,	O
45	Genomic characterization of coexisting anatoxin-producing and non-toxigenic Microcoleus subspecies in benthic mats from the Wolastoq, New Brunswick, Canada. <b>2023</b> , 124, 102405	0
44	Challenges and opportunities of strain diversity in gut microbiome research. 14,	o
43	Comparative Genomic Analysis and Physiological Properties of Limosilactobacillus fermentum SMFM2017-NK2 with Ability to Inflammatory Bowel Disease. <b>2023</b> , 11, 547	0
42	A chromosome-level genome assembly for Erianthus fulvus provides insights into its biofuel potential and facilitates breeding for improvement of sugarcane. <b>2023</b> , 100562	o
41	Transcript annotation of Chinese sturgeon (Acipenser sinensis) using Iso-seq and RNA-seq data. <b>2023</b> , 10,	0
40	Synteny Identifies Reliable Orthologs for Phylogenomics and Comparative Genomics of the Brassicaceae. <b>2023</b> , 15,	О
39	Genomic characterization and molecular dating of the novel bacterium Permianibacter aggregans HW001T, which originated from Permian ground water. <b>2023</b> , 5, 12-27	O
38	ProteInfer, deep neural networks for protein functional inference. 12,	1
37	Draft Genome and Biological Characteristics of Fusarium solani and Fusarium oxysporum Causing Black Rot in Gastrodia elata. <b>2023</b> , 24, 4545	O
36	Deep origins of eukaryotic multicellularity revealed by the Acrasis kona genome and developmental transcriptomes.	o
35	Chromosome-level reference genome of Tetrastigma hemsleyanum (Vitaceae) provides insights into genomic evolution and the biosynthesis of phenylpropanoids and flavonoids.	0
34	De novo assembly of a chromosome-level reference genome of the ornamental butterfly Sericinus montelus based on nanopore sequencing and Hi-C analysis. 14,	o
33	The giant diploid faba genome unlocks variation in a global protein crop. 2023, 615, 652-659	0
32	Chromosome-level genome assembly of Phrynocephalus forsythii using third-generation DNA sequencing and Hi-C analysis. <b>2023</b> , 30,	О

31	A phylogenomic analysis of Limosilactobacillus reuteri reveals ancient and stable evolutionary relationships with rodents and birds and zoonotic transmission to humans. <b>2023</b> , 21,	0
30	The origin and structural evolution ofde novogenes inDrosophila.	O
29	Revealing evolution of tropane alkaloid biosynthesis by analyzing two genomes in the Solanaceae family. <b>2023</b> , 14,	0
28	Evolution of chemosensory and detoxification gene families across herbivorous Drosophilidae.	O
27	Genomic Analysis of the Deep-Sea Bacterium Shewanella sp. MTB7 Reveals Backgrounds Related to Its Deep-Sea Environment Adaptation. <b>2023</b> , 11, 798	O
26	Toward novel treatment against filariasis: Insight into genome-wide co-evolutionary analysis of filarial nematodes and Wolbachia. 14,	O
25	High-Quality Chromosome-Level De Novo Assembly of the Trifolium repens.	0
24	Rapid adaptations of Legionella pneumophila to the human host. <b>2023</b> , 9,	Ο
23	Comparative Genomics Analysis of Ganoderma Orthologs Involved in Plant-Pathogenesis. 2023, 14, 653	0
22	Genome-wide comparative analysis between Cranoglanis bouderius and Pangasianodon hypophthalmus: Reveal the genes related to resistance to low-temperature stress.	O
21	Chromosome-aware phylogenomics of Assassin Bugs (Hemiptera: Reduvioidea) elucidates ancient gene conflict.	О
20	Duckweed evolution: from land back to water.	O
19	Artificially cultivated duckweed: a high-efficiency starch producer.	O
18	Characterization and Genome Analysis of Cladobotryum mycophilum, the Causal Agent of Cobweb Disease of Morchella sextelata in China. <b>2023</b> , 9, 411	O
17	Evolution of an alternative genetic code in theProvidenciasymbiont of the haematophagous leechHaementeria acuecueyetzin.	O
16	Highly contiguous genomes of human clinical isolates of Giardia duodenalis reveal assemblage- and sub-assemblage-specific presence bsence variation in protein-coding genes. <b>2023</b> , 9,	O
15	De novoassembly of the black flounder genome. Why do pleuronectiformes have such a small genome size?.	О
14	LncRNA-encoded peptides: the case of the lncRNA gene located downstream of EIN2. <b>2023</b> , 23,	O

13	Two haplotype-resolved genomes of highly heterozygous AAB allotriploid bananas provide insights into subgenome asymmetric evolution and banana wilt control.	O
12	Microspore-expressed SCULP1 is required for p -coumaroylation of sporopollenin, exine integrity, and pollen development in wheat.	O
11	Gene loss during a transition to multicellularity. <b>2023</b> , 13,	O
10	Transcriptomic insights into archaeal nitrification in the Amundsen Sea Polynya, Antarctica.	O
9	Monkeypox virus: phylogenomics, hostpathogen interactome and mutational cascade. <b>2023</b> , 9,	O
8	High-quality chromosome-level genome assembly of the plant bug Pachypeltis micranthus provides insights into the availability of Mikania micrantha control.	O
7	Flagellar Genes Are Associated with the Colonization Persistence Phenotype of the Drosophila melanogaster Microbiota.	O
6	Genome Organization of Four Brazilian Xanthomonas albilineans Strains Does Not Correlate with Aggressiveness.	O
5	Systematical Characterization of the AT-Hook Gene Family in Juglans regia L. and the Functional Analysis of the JrAHL2 in Flower Induction and Hypocotyl Elongation. <b>2023</b> , 24, 7244	О
4	Novel lytic and lysogenic cyanophages predicted to infectMicrocoleusassociated with anatoxin-producing benthic mats.	O
3	Integrating Metabolic Modeling and High-Throughput Data to Characterize Diatoms Metabolism. <b>2023</b> , 165-191	O
2	Origin and diversification of a Himalayan orchid genus Pleione. <b>2023</b> , 107797	O
1	First report of whole genome sequence of septicemic Pasteurella multocida serovar B:2 Boron strain isolated from swine.	O