

## 基因组 De novo

序号	发表时间	期刊	影响因子	物种	文章
1	2024.4.1	Plant Communications	10.5	沙冬青	A reference-grade genome of the xerophyte <i>Ammopiptanthus mongolicus</i> sheds light on its evolution history in legumes and drought tolerance mechanisms
2	2023.11.30	Nature Genetics	30.8	黍稷	Pangenome analysis reveals genomic variations associated with domestication traits in broomcorn millet
3	2023.11.28	Nature Plants	18	茶树	Gene mining and genomics-assisted breeding empowered by the pangenome of tea plant <i>Camellia sinensis</i>
4	2023.8.25	Molecular Plant	27.5	大豆	Haplotype-resolved and chromosome-level genome assembly of Colorado potato beetle
5	2023.7.19	Nature Communications	16.6	小麦	Sequencing trait-associated mutations to clone wheat rust-resistance gene <i>YrNAM</i>
6	2023.6.14	Nature	64.8	人	A pangenome reference of 36 Chinese populations
7	2023.6.8	Nature Genetics	41.307	谷子	A graph-based genome and pan-genome variation of the model plant <i>Setaria</i>
8	2023.4.18	Journal of Genetics and Genomics	5.723	马铃薯甲虫	Haplotype-resolved and chromosome-level genome assembly of Colorado potato beetle
9	2023.3.30	Nature Plants	17.352	甘蔗	A complete gap-free diploid genome in <i>Saccharum</i> complex and the genomic footprints of evolution in the highly polyploid <i>Saccharum</i> genus
10	2023.3.27	The Plant Journal	7.091	木麻黄	Chromosome-scale <i>de novo</i> genome assembly and annotation of three representative <i>Casuarina</i> species: <i>C. equisetifolia</i> , <i>C. glauca</i> , and <i>C. cunninghamiana</i>
11	2022.12.30	Nucleic Acids Research	19.16	萝卜 × 甘蓝 异源四倍体	Characterization and acceleration of genome shuffling and ploidy reduction in synthetic allopolyploids by genome sequencing and editing
12	2022.11.15	Cell Reports	9.995	果实蝇	Behavioral and genomic divergence between a generalist and a specialist fly
13	2022.6.24	Plant Biotechnology Journal	13.2632	水稻	The telomere-to-telomere gap-free genome of four rice parents reveals SV and PAV patterns in hybrid rice breeding
14	2022.6.22	Molecular Plant	21.95	西瓜	A telomere-to-telomere gap-free reference genome of watermelon and its mutation library provide important resources for gene discovery and breeding
15	2022.6.18	Nature	17.6939	广藿香	Chromosome-level and haplotype-resolved genome provides insight into the tetraploid hybrid origin of patchouli

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16	2022.6.8	Nature	49.962	番茄	Graph pangenome captures missing heritability and empowers tomato breeding
17	2022.5.6	Molecular Plant	9.326	二色补血草	The genome of the recretohalophyte <i>Limonium bicolor</i> provides insights into salt gland development and salinity adaptation during terrestrial evolution
18	2022.2.17	Cell Systems	10.304	人(土家族)	Haplotype-resolved <i>de novo</i> assembly of a Tujia genome suggests the necessity for high-quality population-specific genome references
19	2022.1.19	Genome Biology and Evolution	3.416	切叶蜂	Chromosome-level genome assembly of <i>Anthidium xuezhongi</i> Niu & Zhu, 2020 (Hymenoptera: Apoidea: Megachilidae: Anthidiini)
20	2022.1.10	Genome Biology	13.214	油茶	The genome of oil-Camellia and population genomics analysis provide insights into seed oil domestication
21	2021.8.26	The Crop Journal	4.4	玉米	Genome assembly of the maize inbred line A188 provides a new reference genome for functional genomics
22	2021.8.10	Molecular Plant	9.326	萝卜	Pan-genome of <i>Raphanus</i> highlights genetic variation and introgression among domesticated, wild and weedy radishes
23	2021.3.2	Molecular Ecology Resources	6.29	牡蛎	Construction of a chromosome-level genome and variation map for the Pacific oyster <i>Crassostrea gigas</i>
24	2021.2.28	Journal of Genetics and Genomics	4.78	榕小蜂	Genomes of 12 fig wasps provide insights into the adaptation of pollinators to fig syconia
25	2021.2.3	Cell	38.64	野生稻	A route to <i>de novo</i> domestication of wild allotetraploid rice
26	2020.12.29	Molecular Ecology	5.163	绿头野鸭、北京鸭	A SNP variant located in the cis - regulatory region of the ABCG2 gene is associated with mallard egg color
27	2020.11.2	PNAS	9.58	金鱼	The evolutionary origin and domestication history of goldfish ( <i>Carassius auratus</i> )
28	2020.8.12	NPJ Genomic Medicine	5.63	人	Identification of a likely pathogenic structural variation in the <i>LAMA1</i> gene by Bionano optical mapping
29	2020.6.17	Cell	36.219	大豆	Pan-genome of wild and cultivated soybeans
30	2020.4.9	Science	34.661	小麦	Horizontal gene transfer of <i>Fhb7</i> from fungus underlies <i>Fusarium</i> head blight resistance in wheat

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31	2020.3.12	Genome Biology	13.214	芒果	The genome evolution and domestication of tropical fruit mango
32	2019.11.25	Molecular Plant	9.326	薏苡仁	Evolution and domestication footprints uncovered from the genomes of coix
33	2019.10.26	Nature Communications	13.691	胡椒	The chromosome-scale reference genome of black pepper provides insight into piperine biosynthesis
34	2019.9.16	BioRxiv	-	家猪	Chromosome-scale <i>de novo</i> assembly and phasing of a Chinese indigenous pig genome
35	2019.9.3	Plant Biotechnology Journal	6.84	澳洲棉	Genome sequencing of the Australian wild diploid species <i>Gossypium austral</i> highlights disease resistance and delayed gland morphogenesis
36	2019.8.2	Plant Biotechnology Journal	6.84	杜梨	<i>De novo</i> assembly of a wild pear ( <i>Pyrus betuleafolia</i> ) genome
37	2019.4.18	Genome Biology	13.214	开心果	Whole genomes and transcriptomes reveal adaptation and domestication of pistachio
38	2019.3.19	Molecular Plant	9.326	花生	Sequencing of cultivated peanut, <i>Arachis hypogaea</i> , yields insights into genome evolution and oil improvement
39	2019.3.18	Nature Genetics	27.125	陆地棉和海岛棉	<i>Gossypium barbadense</i> and <i>Gossypium hirsutum</i> genomes provide insights into the origin and evolution of allotetraploid cotton
40	2019.1.25	Nature Communications	12.353	糜子	Chromosome conformation capture resolved near complete genome assembly of broomcorn millet
41	2018.7	Nature Genetics	27.959	玉米	Extensive intraspecific gene order and gene structural variations between Mo17 and other maize genomes
42	2018.7	Science China-Life Science	3.085	大豆	<i>De novo</i> assembly of a Chinese soybean genome
41	2018.3	Nature communications	12.124	美洲蟑螂	The genomic and functional landscapes of developmental plasticity in the American cockroach.

## 动植物重测序

序号	发表时间	期刊	影响因子	物种	文章
1	2023.5.30	The Innovation	32.1	棉铃虫	Adaptive evolution to the natural and anthropogenic environment in a global invasive crop pest, the cotton bollworm
2	2023.5.29	Nature Communications	17.694	谷子	An E2-E3 pair contributes to seed size control in grain crops
3	2023.5.9	Frontiers in Plant Science	6.627	番茄	Comparative analysis of chloroplast genomes of 29 tomato germplasms: genome structures, phylogenetic relationships, and adaptive evolution
4	2022.4.26	BMC Biology	7.431	木犀科物种	Phylogenomic approaches untangle early divergences and complex diversifications of the olive plant family
5	2022.3.15	Insect Science	3.262	小蜂蛾	Testing the systematic status of <i>Homalictus</i> and <i>Rostrohalictus</i> with weakened cross-vein groups within Halictini (Hymenoptera: Halictidae) using low-coverage whole-genome sequencing
6	2022.3.15	Systematic Biology	15.683	弹尾虫	Phylogenomics of elongate-bodied springtails reveals independent transitions from aboveground to belowground habitats in deep-time
7	2021.11.26	PNAS	9.142	山雀科鸟类	Parallel genomic responses to historical climate change and high elevation in East Asian songbirds
8	2021.11.17	Proceedings of the Royal Society B: Biological Sciences	4.62	阿纳鲷鲈	A single intronic SNP in splicing site of steroidogenic enzyme <i>hsd17b1</i> is associated with phenotypic sex in oyster pompano, <i>Trachinotus anak</i>
9	2021.9.28	Journal of Integrative Plant Biology	7.06	紫花苜蓿	A global alfalfa diversity panel reveals genomic selection signatures in Chinese varieties and genomic associations with root development
10	2021.1.12	Genome Biology	13.214	苦荞	Resequencing of global Tartary buckwheat accessions reveals multiple domestication events and key loci associated with agronomic traits
11	2020.11.17	Nature Communications	11.878	番茄	<i>FIS1</i> encodes a GA2-oxidase that regulates fruit firmness in tomato
12	2020.8.18	PNAS	9.142	谷子	<i>DROOPY LEAF1</i> controls leaf architecture by orchestrating early brassinosteroid signaling
13	2020.6.27	Molecular Biology and Evolution	14.797	地山雀	Comparative genomics reveals evolution of a beak morphology locus in a high-altitude songbird
14	2020.6.4	Nature Communications	13.691	绵羊	Whole-genome resequencing of wild and domestic sheep identifies genes associated with morphological and agronomic traits
15	2020.2.17	Molecular Ecology Resources	7.09	跳虫	Streamlining universal single-copy orthologue and ultraconserved element design: A case study in Collembola

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16	2019.12.24	Nature Genetics	27.959	菜豆	Resequencing of 683 common bean genotypes identifies yield component trait associations across a north-south cline
17	2019.11.1	Nature Genetics	27.959	西瓜	Resequencing of 414 cultivated and wild watermelon accessions identifies selection for fruit quality traits
18	2019.9.6	Nature Communications	11.878	小麦	An ancestral NB-LRR with duplicated 3' UTRs confers stripe rust resistance in wheat and barley
19	2019.9.2	Systematic Entomology	3.727	叶甲虫	The phylogeny of leaf beetles (Chrysomelidae) inferred from mitochondrial genomes
20	2019.7.27	Molecular Biology and Evolution	14.797	柳莺	"Ghost introgression" as a cause of deep mitochondrial divergence in a bird species complex
21	2019.7.20	Molecular Biology and Evolution	14.797	马	EPAS1 gain-of-function mutation contributes to high altitude adaptation in iibetan horses
22	2019.4.25	Journal of Experimental Botany	5.36	玉米	Maize pentatricopeptide repeat protein DEK41 affects cis-splicing of mitochondrial <i>nad4</i> intron 3 and is required for normal seed development
23	2019.3.20	Zoologica Scripta	2.609	跳蚤甲虫	Diversification of mitogenomes in three sympatric <i>Altica</i> flea beetles (Insecta, Chrysomelidae)
24	2018.11.16	Molecular Biology and Evolution	14.797	绵羊	The genome landscape of Tibetan sheep reveals adaptive introgression from argali and the history of early human settlements on the Qinghai-Tibetan Plateau
25	2018.9.25	Nature Communications	12.353	北京鸭	An intercross population study reveals genes associated with body size and plumage color in ducks
26	2018.9.24	Nature Genetics	27.125	大豆	Parallel selection on a dormancy gene during domestication of crops from multiple families
27	2018.9.14	Genome Biology	13.214	酵母	Reduced intrinsic DNA curvature leads to increased mutation rate
28	2018.7.2	Nature Ecology and Evolution	10.965	家蚕	The evolutionary road from wild moth to domestic silkworm
29	2018.5.7	Nature Genetics	27.959	棉花	Resequencing of 243 diploid cotton accessions based on an updated A genome identifies the genetic basis of key agronomic traits
30	2018.4.27	Nature Communications	12.353	梅花	The genetic architecture of floral traits in the woody plant <i>Prunus mume</i>

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31	2018.6.4	Molecular Plant	8.827	水稻	Control of grain size and weight by the OsMKKK10-OsMKK4-OsMAPK6 signaling pathway in rice
32	2018.3.23	Plant Biotechnology Journal	7.443	玉米	High - efficiency genome editing using a <i>dmc1</i> promoter-controlled CRISPR/Cas9 system in maize

# 人基因组测序

序号	发表时间	期刊	影响因子	疾病 / 样本	文章
1	2024.4.8	Cancer Cell	50.3	肝癌	Pharmacogenomic profiling of intra-tumor heterogeneity using a large organoid biobank of liver cancer
2	2023.3.20	National Science Review	20.6	噪声性听力损失	A common variant in <i>AAK1</i> reduces risk of noise-induced hearing loss
3	2023.2.10	The Journal of Cardiovascular Aging	-	心肌病	Reassessment of genes associated with dilated and hypertrophic cardiomyopathy in a Chinese Han population
4	2022.4.29	Nature Cell Biology	28.824	小鼠胚胎	Allele-specific H3K9me3 and DNA methylation co-marked CpG-rich regions serve as potential imprinting control regions in pre-implantation embryo
5	2021.11.16	Cell Reports	8.807	人外周血	NyuWa Genome resource: A deep whole-genome sequencing-based variation profile and reference panel for the Chinese population
6	2021.8.11	Frontiers in Genetics	3.258	Waardenburg 综合征	A Novel Gross Deletion in <i>PAX3</i> (10.26 kb) Identified in a Chinese Family With Waardenburg Syndrome by Third-Generation Sequencing
7	2021.3.8	BioMed Reseach International	2.36	假软骨发育不全	A novel COMP mutated allele identified in a Chinese family with pseudoachondroplasia
8	2020.11.23	BioMed Reseach International	2.36	唇腭裂	Identification of a novel variant of <i>ARHGAP29</i> in a chinese family with nonsyndromic cleft lip and palate
9	2020.11.16	Frontiers in Genetics	3.26	x 连锁综合征	Characterization of a Novel NONO Intronic Mutation in a Fetus with X-Linked Syndromic Mental Retardation-34
10	2020.8.6	Nature Communications	12.12	新冠肺炎	Single-cell analysis of two severe COVID-19 patients reveals a monocyte-associated and tocilizumab-responding cytokine storm
11	2020.2.26	Science Advances	13.12	胃癌	Multi-omics characterization of molecular features of gastric cancer correlated with response to neoadjuvant chemotherapy
12	2019.12.27	Nature	41.58	人外周血	H2A.Z facilitates licensing and activation of early replication origins
13	2019.10.31	Molecular Psychiatry	11.97	抽动秽语综合症	Mutations in <i>ASH1L</i> confer susceptibility to Tourette syndrome
14	2019.10.21	Ultrasound Obstet Gynecol	5.60	先天性心脏左侧病变	The contribution of single-gene defects to congenital cardiac left-sided lesions in the prenatal setting
15	2019.2.18	Nature Genetics	27.125	肺脏再生	Lung regeneration by multipotent stem cells residing at the bronchioalveolar duct junction