

Appendix

Additive Methods for Genomic Signatures

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The 42 genomes analyzed in the Results section, and the two genomes exemplified in the Discussion section: Scientific name, number of chromosomes, NCBI accession number. (* *P.patens* genome from JGI Phytozome).

Animalia

Organism	# Chrom.	# fragm.	Accession
<i>Homo sapiens</i>	24	480	GCF_000001405.30
<i>Drosophila melanogaster</i>	7	128	GCA_000001215.4
<i>Gallus gallus</i>	31	562	GCA_000002315.2
<i>Mus musculus</i>	21	420	GCA_000001635.5
<i>Microcebus murinus</i>	Contigs	500	ABDC02000001-ABDC02056281
<i>Tarsius syrichta</i>	Contigs	500	ABRT02000001-ABRT02492902
<i>Callithrix jacchus</i>	24	477	GCA_000004665.1
<i>Papio anubis</i>	21	420	GCF_000264685.2
<i>Nomascus leucogenys</i>	26	520	GCA_000146795.3
<i>Pongo abelii</i>	24	480	GCF_000001545.4
<i>Gorilla gorilla gorilla</i>	24	480	GCA_000151905.1
<i>Pan troglodytes</i>	25	500	GCA_000001515.4

Fungi

Organism	# Chrom.	# fragm.	Accession
<i>Saccharomyces cerevisiae</i>	16	73	GCF_000146045.2
<i>Cryptococcus gattii</i>	14	114	GCA_000185945.1
<i>Fusarium oxysporum</i>	15	265	GCA_000149955.2
<i>Komagataella pastoris</i>	4	58	GCA_000027005.1
<i>Candida dubliniensis</i>	8	93	GCA_000026945.1
<i>Saccharomyces arboricola</i>	16	66	GCA_000292725.1

Plantae

Organism	# Chrom.	# fragm.	Accession
<i>Brassica Napus</i>	19	380	GCF_000686985.1
<i>Micromonas sp. RCC299</i>	17	131	GCF_000090985.2
<i>Physcomitrella patens</i>	27	540	*
<i>Malus domestica</i>	17	340	GCF_000148765.1
<i>Carica papaya</i>	Scaffold	231	DS981520-DS984726
<i>Arabidopsis thaliana</i>	5	100	GCF_000001735.3
<i>Raphanus sativus</i>	Scaffold	375	DF196826-DF236948
<i>Brassica oleracea</i>	9	180	GCF_000695525.1
<i>Capsicum annuum</i> L, cultivar <i>Zunla-1</i>	12	240	GCA_000710875.1
<i>Capsicum annuum</i> var. <i>glabriusculum</i> , cultivar <i>Chiltepin</i>	12	240	GCA_000950795.1

Protista

Organism	# Chrom.	# fragm.	Accession
<i>Plasmodium falciparum</i>	14	149	GCA_000002765.1
<i>Oryztricha trifallax</i>	Contigs	122	ARYC01000001-ARYC01025720
<i>Toxoplasma gondii</i>	Contigs	126	AAYL02000001-AAYL02002110
<i>Theileria orientalis</i>	4	58	GCA_000740895.1
<i>Plasmodium vivax</i>	14	142	GCA_000002415.2

Bacteria

Organism	# Chrom.	# fragm.	Accession
<i>Escherichia coli</i>	1	20	GCA_000183345.1
<i>Staphylococcus aureus</i>	1	18	GCA_000013425.1
<i>Helicobacter pylori</i>	1	11	GCA_000008525.1
<i>Acinetobacter baumannii</i>	1	20	GCA_000018445.1
<i>Salmonella enterica</i>	1	20	GCA_000006945.1
<i>Escherichia fergusonii</i>	1	20	GCA_000026225.1

Archaea

Organism	# Chrom.	# fragm.	Accession
<i>Pyrococcus furiosus</i>	1	12	GCA_000275605.1
<i>Sulfolobus islandicus</i>	1	18	GCA_000022385.1
<i>Methanobrevibacter smithii</i>	1	12	GCA_000016525.1
<i>Thermococcus</i> sp. <i>AM4</i>	1	13	GCA_000151205.2
<i>Pyrococcus yayanosii</i>	1	11	GCA_000215995.1