



REVISTA DE LA ACADEMIA
COLOMBIANA DE CIENCIAS
EXACTAS, FÍSICAS Y NATURALES

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Supplementary material

Genomics of thermally pathogenic dimorphic human fungi: From the mitochondrion to the pangenome

Genómica de hongos dimórficos térmicos patógenos en humanos: de la mitocondria al pangenoma

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Table of Contents

Table 1S. Genomic information of the main strains of pathogenic thermally dimorphic fungi.

Table 2S. Information on the strains used in the search for orthologous genes.

Table 1S. Genomic information of the main strains of pathogenic thermally dimorphic fungi							
Organism	Strain	Genome size (Mb)	Coverage	Assembly level.	Assembly data	Sequencing technology.	NCBI access code.
<i>Histoplasma capsulatum</i>	G186AR	31,1	456.0x	Complete genome	6 chromosomes	Oxford Nanopore, Illumina	GCA_017355575.1
<i>Histoplasma capsulatum</i>	G186AR	30,4	11.5x	Scaffold	86 scaffolds	ABI 3730	GCA_000149585.1
<i>Histoplasma mississippiense</i>	WU24	32.5	202.0x	Complete genome	7 chromosomes	Oxford Nanopore, Illumina	GCA_017310585.1
<i>Histoplasma mississippiense</i>	Nam1	33	-	Scaffold	275 scaffolds	-	GCA_000149585.1
<i>Histoplasma capsulatum</i> var. <i>duboisii</i>	H88	37,9	25.0x	Complete genome	6 chromosomes	Oxford Nanopore, Illumina	GCA_017310615.1
<i>Histoplasma ohiense</i>	G217B	39,4	28.0x	Contig	11 contigs	Oxford Nanopore, Illumina	GCA_017607445.1

<i>Organism</i>	Strain	Genome size (Mb)	Coverage	Assembly level.	Assembly data	Sequencing technology.	NCBI access code.
<i>Paracoccidioides lutzii</i>	Pb01	32,9	148.0x	Scaffold	110 scaffolds	Illumina	GCF_000150705.2
<i>Paracoccidioides brasiliensis</i> S1a	Pb18	30	9.8x	Scaffold	57 scaffolds	Illumina	GCF_000150735.1
<i>Paracoccidioides restrepiensis</i>	PbCNH	29,4	129.0x	Scaffold	391 scaffolds	Illumina	GCA_001713695.1
<i>Paracoccidioides venezuelensis</i>	Pb300	29,4	158.0x	Scaffold	1368 scaffolds	Illumina	GCA_001713645.1
<i>Paracoccidioides americana</i>	Pb03	29,1	150.0x	Scaffold	65 scaffolds	Illumina	GCA_000150475.2
<i>Paracoccidioides brasiliensis</i> S1b	IMR-M-Pb 369	28,7	25.0X	Contig	52 contigs	Nanopore	GCA_042919335.1
<i>Sporothrix schenckii sensu stricto</i>	1099-18	32,4	17.0x	Contig	16 contigs	454	GCA_000961545.1
<i>Sporothrix globosa</i>	CBS 120340	33,5	146.0x	Scaffold	86 scaffolds	Illumina	GCA_001630435.1
<i>Sporothrix brasiliensis</i>	5110	33,2	20.0x	Contig	13 contigs	454	GCA_000820605.1

Organism	Strain	Genome size (Mb)	Coverage	Assembly level.	Assembly data	Sequencing technology.	NCBI access code.
<i>Sporothrix mexicana</i>	CBS 120341	50,8	51.0x	Scaffold	25656 scaffolds	Illumina	GCA_021396375.1
<i>Sporothrix pallida</i>	CBS 131.56	40,5	66.0x	Scaffold	1225 scaffolds	Illumina	GCA_021396235.1
<i>Sporothrix luriei</i>	CBS 937.72	33,8	102.0x	Scaffold	5177 scaffolds	Illumina	GCA_021398005.1
<i>Coccidioides immitis</i>	RS	28.9	8x	Scaffold	6 scaffolds	Sanger	GCF_000149335.2
<i>Coccidioides posadasii</i>	Silviera	28.2	475x	Complete genome	8 chromosomes	PacBio Sequel Illumina MiSeq	GCA_000151335.1
<i>Blastomyces dermatitidis</i>	ER-3	66.6	9.43x	Scaffold	25 scaffold	ABI	GCA_000003525.2
<i>Blastomyces gilchristii</i>	SLH1408 1	75.4	8.4x	Scaffold	100 scaffold	ABI	GCA_000003855.2
<i>Talaromyces marneffei</i>	11CN-20-091	28.2	152x	Complete genome	8 chromosomes	Oxford Nanopore MiniION	GCA_009556855.1

Organism	Strain	Genome size (Mb)	Coverage	Assembly level.	Assembly data	Sequencing technology.	NCBI access code.
<i>Emergomyces pasteurianus</i>	UAMH 9510	32.4	88x	Scaffold	1643	Illumina	GCA_001883825.1
<i>Emergomyces crescens</i>	UAMH40 76	33.8	173x	Scaffold	1288	Illumina	GCA_002572855.1

Table 2S. Information on the strains used in the search for orthologous genes

Species	Strain	NCBI code
<i>Paracoccidioides restrepiensis</i>	PbCNH	GCA_001713695.1
<i>Paracoccidioides venezuelensis</i>	Pb300	GCA_001713645.1
<i>Paracoccidioides americana</i>	Pb03	GCA_000150475.2
<i>Paracoccidioides lutzii</i>	Pb01	GCA_000150705.2
<i>Paracoccidioides brasiliensis</i>	Pb18	GCA_000150735.1
<i>Aspergillus fumigatus</i>	Af293	GCA_000002655.1
<i>Blastomyces dermatitidis</i>	ER3	GCA_000003525.1
<i>Blastomyces dermatitidis</i>	SLH14081	GCA_000003855.2
<i>Blastomyces silverae</i>	UAMH 139	GCA_001014755.1
<i>Blastomyces parvus</i>	UAMH 130	GCA_002572885.1

Species	Strain	NCBI code
<i>Candida albicans</i>	SC5314	GCA_000182965.3
<i>Emmonsia africana</i>	EA111	GCA_001660665.1
<i>Emmonsia crescentensis</i>	4076	GCA_002572855.1
<i>Emmonsia pasteuriana</i>	UAMH9510	GCA_001883825.1
<i>Helicocarpus griseus</i>	5409	GCA_002573585.1
<i>Histoplasma capsulatum s.s</i>	G186AR	GCA_000150115.1
<i>Histoplasma duboisii</i>	H88	GCA_000151005.2
<i>Histoplasma duboisii</i>	H143	GCA_000151035.1
<i>Histoplasma mississippiense</i>	Nam1	GCA_000149585.1
<i>Histoplasma mississippiense</i>	WU24	GCA_017310585.1
<i>Histoplasma ohiense</i>	G217B	GCA_017607445.1
<i>Polytolya hystricis</i>	7299	GCA_002573605.1

Species	Strain	NCBI code
<i>Sporothrix brasiliensis</i>	5110	GCA_000820605.1
<i>Sporothrix schenckii</i>	1099-18	GCA_000961545.1
<i>Talaromyces marneffeii</i>	ATCC 18224	GCA_000001985.1
<i>Talaromyces marneffeii</i>	11CN-20-091	GCA_009556855.1
<i>Coccidioides immitis</i>	RS	GCA_000149335.2
<i>Coccidioides posadasii</i>	Silveira	GCA_018416015.2