

TEXT SUPPLEMENT (Ch 4): Genome Sizes

Table of genome sizes in different species

SPECIES	GENOME SIZE IN MILLIONS OF BASES (mb)
BACTERIAL SPECIES	
<i>Mycoplasma genitalium</i>	0.58
<i>Bacillus megaterium</i>	30
<i>Escherichia coli</i>	4.64
NON-BACTERIAL SPECIES	
<i>Saccharomyces cerevisiae</i> (yeast)	12.1
<i>Caenorhabditis elegans</i> (roundworm)	100
<i>Drosophila melanogaster</i> (fruitfly)	140
<i>Locusta migratoria</i> (locust)	5000
<i>Fugu rubripes</i> (pufferfish)	400
<i>Mus musculus</i> (mouse)	3300
<i>Homo sapiens</i> (human)	3000
<i>Oryza sativa</i> (rice)	565
<i>Zea mays</i> (corn)	5000
<i>Triticum aestivum</i> (wheat)	17,000
<i>Fritillaria assyrica</i> (ornamental flower)	120,000

Adapted from Genomes, Terrence A. Brown. Wiley-Liss: New York, 1999.