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Metagenomics Platforms II: JGI's IMG/M, Microbial Earth Project (MEP) + video!

computational metagenomics • workshop
U of mauritius • dec 2014



University of Mauritius



H3ABioNet

Pan African Bioinformatics Network for H3Africa



Linnæus University

Sweden



CERTH

CENTRE FOR RESEARCH & TECHNOLOGY HELLAS



University
of Cyprus

SRI International



JOINT GENOME INSTITUTE
UNITED STATES DEPARTMENT OF ENERGY

The European Bioinformatics Institute

Part of the European Molecular Biology Laboratory

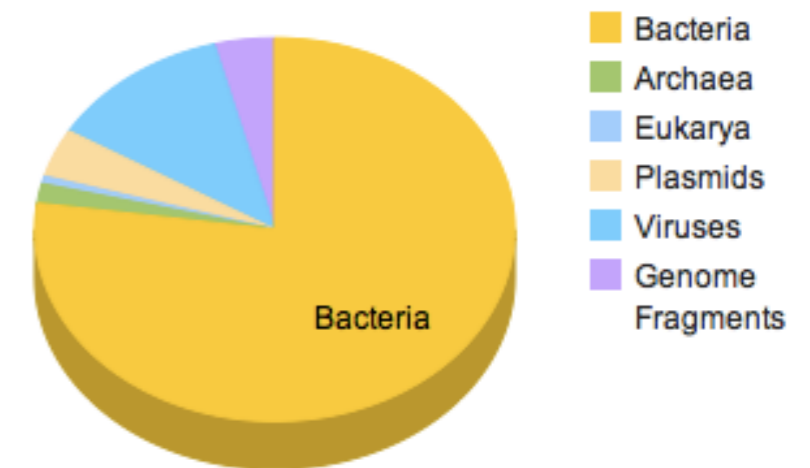
img/m

- meta-genome analysis platform
 - comparative analysis
 - genome annotation
- covers three domains of life
 - 123 GBases
 - 100 M genes
 - 30 K genomes
- provides data integration and analysis tools for genomes and metagenomes



IMG Content	
	Datasets
Bacteria	<u>22556</u>
Archaea	<u>484</u>
Eukarya	<u>188</u>
Plasmids	<u>1195</u>
Viruses	<u>3608</u>
Genome Fragments	<u>1191</u>
Total Datasets	<u>29222</u>
GEBA	<u>255</u>
Last updated: <u>2014-10-27</u>	

All Genomes



img basics

- IMG mission
 - support annotation, analysis, distribution of genome data
 - sets standards for metadata usage
- provides access to significant genomic collections
 - genomic
 - metagenomic/environmental
 - metagenomic/human microbiome
- both interactive and batch access via a data warehouse

examples of use



interaction, browsing, video

Genome Browser

Add Selected to Genome Cart

Select All

Clear All

View Phylogenetically

Filter column: Domain Filter text : Apply ?

Export

Page 1 of 233 << first < prev 1 2 3 4 5 6 7 8 9 10 next > last >> 100

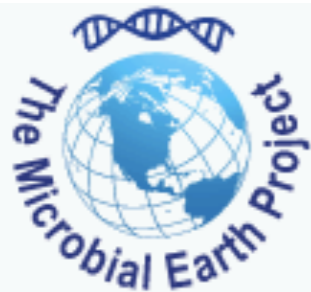
Column Selector

Select Page

Deselect Page

Select	Domain	Status	Study Name	Genome Name / Sample Name	Sequencing Center	Genome Size	Gene Count
<input type="checkbox"/>	A	F	Thermococcus gammatolerans EJ3	Thermococcus gammatolerans EJ3	Genoscope	2045438	2206
<input type="checkbox"/>	A	P	mesopelagic bacterioplankton	Marine Group I thaumarchaeote sp. SCGC AAA288-N15	Marine Biological Laboratory	144418	307
<input type="checkbox"/>	A	P	Pan-genome of Methanobrevibacter smithii, in twins	Methanobrevibacter smithii TS96C	Washington University in St. Louis	1818239	1863

microbial earth project: microbial-earth.org



HOME

TYPE STRAINS



About the Microbial Earth Project

The Microbial Earth project is an international effort to generate a comprehensive catalog from genome sequences of all the archaeal and bacterial type strains. The name of the project comes from the recognition that Earth is a predominantly a microbial planet, and by effect in order to understand life on our planet, we need to understand how microbial life works. » [more](#)

If you want to support this project

[Adopt a Type Strain](#)

all type strains: 10911

Archaeal and Bacterial Type Strains: 10911

A Archaeal: 397 **B** Bacterial: 10514

 Finished Type Strains: 1650  Draft Type Strains: 113

 Proposed Type Strains: 7581  In progress Type Strains: 1567

