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Articles selected by Faculty of **1000** Biology: yeast metabolite profiling; high-frequency homologous recombination; functional RNA motifs; phylogeny of Oryzeae; genomic variability within an organism.

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Summary

A selection of evaluations from Faculty of 1000 Biology: yeast metabolite profiling; high-frequency homologous recombination; functional RNA motifs; phylogeny of Oryzae; genomic variability within an organism.

Yeast metabolite profiling

Global metabolite analysis of yeast: evaluation of sample preparation methods. Villas-Bôas SG, Højer-Pedersen J, Akesson M, Smedsgaard J, Nielsen J. *Yeast* 2005, **22**:1155-1169.

For the Faculty of 1000 Biology evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-12-363.asp#Villas-Boas>

High-frequency homologous recombination

High-frequency homologous recombination in plants mediated by zinc-finger nucleases. Wright DA, Townsend JA, Winfrey RJ, Irwin PA, Rajagopal J, Lonosky PM, Hall BD, Jondle MD, Voytas DF. *Plant J* 2005, **44**:693-705.

For the Faculty of 1000 Biology evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-12-363.asp#Wright>

Functional RNA motifs

Predicting candidate genomic sequences that correspond to synthetic functional RNA motifs. Laserson U, Gan HH, Schlick T. *Nucleic Acids Res* 2005, **33**:6057-6069.

For the Faculty of 1000 Biology evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-12-363.asp#Laserson>

Phylogeny of Oryzeae

Molecular phylogeny of Oryzeae (Poaceae) based on DNA sequences from chloroplast, mitochondrial, and nuclear genomes. Guo YL, Ge S. *Am J Bot* 2005, **92**:1548-1558.

For the Faculty of 1000 Biology evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-12-363.asp#Guo>

Genomic variability within an organism

Genomic variability within an organism exposes its cell lineage tree. Frumkin D, Wasserstrom A, Kaplan S, Feige U, Shapiro E. *PLoS Comput Biol* 2005, **1**:e50.

For the Faculty of 1000 Biology evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-12-363.asp#Frumkin>