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Summary

A selection of evaluations from Faculty of **1000** covering yeast metabolomics, genome-wide threading-based predictions of protein-protein interactions, genetic analysis of filamentous growth in *C. albicans*, the production of knockout rats and genome-wide mutagenesis of humoral immune responses.

Yeast metabolomics

High-throughput classification of yeast mutants for functional genomics using metabolic footprinting. Allen J, Davey HM, Broadhurst D, Heald JK, Rowland JJ, Oliver SG, Kell DB. *Nat Biotechnol* 2003, **21**:692-696.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-8-333.asp#Allen>

Genome-wide threading-based predictions

Multimeric threading-based prediction of protein-protein interactions on a genomic scale: application to the *Saccharomyces cerevisiae* proteome. Lu L, Arakaki AK, Lu H, Skolnick J. *Genome Res* 2003, **13**:1146-1154.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-8-333.asp#Lu>

Dissecting *C. albicans* growth pathways

Haploinsufficiency-based large-scale forward genetic analysis of filamentous growth in the diploid human fungal pathogen *C. albicans*. Uhl MA, Biery M, Craig N, Johnson AD. *EMBO J* 2003, **22**:2668-2678.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-8-333.asp#Uhl>

Knockout rats

Production of knockout rats using ENU mutagenesis and a yeast-based screening assay. Zan Y, Haag JD, Chen KS, Shepel LA, Wigington D, Wang YR, Hu R, Lopez-Guajardo CC, Brose HL, Porter KI, *et al.* *Nat Biotechnol* 2003, **21**:645-651.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-8-333.asp#Zan>

ENU mutagenesis and humoral immunity

Identifying the MAGUK protein Carma-1 as a central regulator of humoral immune responses and atopy by genome-wide mouse mutagenesis. Jun JE, Wilson LE, Nelms KA, Goodnow CC and colleagues. *Immunity* 2003, **18**:751-762.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-8-333.asp#Jun>