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Articles selected by Faculty of **1000**: identifying cereal cell wall biosynthetic genes; unspecific knockdown by RNAi; proteomics of lipid rafts; mating-type gene in asexual fungus; genomic identification of hyperthermophiles

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Summary

A selection of evaluations from Faculty of 1000 covering the identification of cereal cell wall biosynthetic genes, off-target gene regulation by RNAi, protoemics of lipid rafts, a mating-type gene in *Aspergillus fumigatus* and genomic identification of hyperthermophiles.

Identifying cereal cell wall biosynthetic genes

Quantitative trait loci and comparative genomics of cereal cell wall composition. Hazen SP, Hawley RM, Henrissat B, Walton JD. *Plant Physiology* 2003, **132**:263-271.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-7-329.asp#Hazen>

Unspecific knockdown by RNAi

Expression profiling reveals off-target gene regulation by RNAi. Jackson AL, Bartz SR, Schelter J, Kobayashi SV, Burchard J, Mao M, Li B, Cavet G, Linsley PS. *Nat Biotechnol* 2003, **21**:635-637.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-7-329.asp#Jackson>

Protoemics of lipid rafts

Unbiased quantitative proteomics of lipid rafts reveals high specificity for signaling factors. Foster LJ, De Hoog CL, Mann M. *Proc Natl Acad Sci USA* 2003, **100**:5813-5818.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-7-329.asp#Foster>

Mating-type gene in asexual fungus

Mating type gene homologues in *Aspergillus fumigatus* . Varga J. *Microbiology* 2003, **149**:816-819.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-7-329.asp#Varga>

Genomic identification of hyperthermophiles

Genomic correlates of hyperthermostability, an update. Suhre K, Claverie JM. *J Biol Chem* 2003, **278**:17198-17202.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-7-329.asp#Suhre>