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Articles selected by Faculty of **1000**: analysis of mouse chromosome 11; nuclear membrane protein identification; odor-guided behavior in *Drosophila*; ionomics in *Arabidopsis*; genomic comparison of two *Prochlorococcus* ecotypes

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Summary

A selection of evaluations from Faculty of 1000 covering a genetic analysis of mouse chromosome 11, nuclear membrane protein identification, odor-guided behavior in *Drosophila*, profiling nutrient and trace elements in *Arabidopsis* and a genomic comparison of two *Prochlorococcus* ecotypes.

Analysis of mouse chromosome 11

Functional genetic analysis of mouse chromosome 11. Kile BT, Hentges KE, Clark AT, Nakamura H, Salinger AP, Liu B, Box N, Stockton DW, Johnson RL, Behringer RR, *et al.* *Nature* 2003, **425**:81-86.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-10-344.asp#Kile>

Nuclear membrane protein identification

Nuclear membrane proteins with potential disease links found by subtractive proteomics. Schirmer EC, Florens L, Guan T, Yates JR, Gerace L. *Science* 2003, **301**:1380-1382.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-10-344.asp#Schirmer>

Odor-guided behavior in *Drosophila*

The genetic architecture of odor-guided behavior in *Drosophila* : epistasis and the transcriptome. Anholt RR, Dilda CL, Chang S, Fanara JJ, Kulkarni NH, Ganguly I, Rollmann SM, Kamdar KP, Mackay TF. *Nat Genet* 2003, Sep 7.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-10-344.asp#Anholt>

Ionomics in *Arabidopsis*

Genomic scale profiling of nutrient and trace elements in *Arabidopsis thaliana*. Lahner B, Gong J, Mahmoudian M, Smith EL, Abid KB, Rogers EE, Guerinot ML, Harper JF, Ward JM, McIntyre L, *et al.* *Nat Biotechnol* 2003, Aug 31.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-10-344.asp#Lahner>

Genomic comparison of two *Prochlorococcus* ecotypes

Genome divergence in two *Prochlorococcus* ecotypes reflects oceanic niche differentiation. Rocap G, Larimer FW, Lamerdin J, Malfatti S, Chain P, Ahlgren NA, Arellano A, Coleman M, Hauser L, Hess WR, *et al.* *Nature* 2003, **424**:1042-1047.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-10-344.asp#Rocap>