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Meiosis evolution

A selection of evaluations from Faculty of 1000 covering meiosis evolution; picoeukaryote cell-cycle genes; identifying targets of small molecules; rice genome evolution; circadian gene expression cyanobacteria.

A phylogenomic inventory of meiotic genes; evidence for sex in *Giardia* and an early eukaryotic origin of meiosis. Ramesh MA, Malik SB, Logsdon JM. *Curr Biol* 2005, **15**:185-191.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-4-318.asp#Ramesh>

Picoeukaryote cell-cycle genes

Genome-wide analysis of core cell cycle genes in the unicellular green alga *Ostreococcus tauri*. Robbins S, Khadaroo B, Camasses A, Derelle E, Ferraz C, Inzé D, Van de Peer Y, Moreau H. *Mol Biol Evol* 2005, **22**:589-597.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-4-318.asp#Robbens>

Identifying targets of small molecules

A genome-wide overexpression screen in yeast for small-molecule target identification. Luesch H, Wu TY, Ren P, Gray NS, Schultz PG, Supek F. *Chem Biol* 2005, **12**:55-63.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-4-318.asp#Luesch>

Rice genome evolution

Duplication and DNA segmental loss in the rice genome: implications for diploidization. Wang X, Shi X, Hao B, Ge S, Luo J. *New Phytol* 2005, **165**:937-946.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-4-318.asp#Wang>

Circadian gene expression cyanobacteria

Global analysis of circadian expression in the Cyanobacterium *Synechocystis* sp. strain PCC 6803. Kucho K, Okamoto K, Tsuchiya Y, Nomura S, Nango M, Kanehisa M, Ishiura M. *J Bacteriol* 2005, **187**:2190-2199.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-4-318.asp#Kucho>