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Articles selected by Faculty of **1000**: the *Methanococcus maripaludis* genome; recombination in animal mitochondria; modulating cell cycle progression; gene silencing by microRNA directed methylation; yeast DNA breakage and repair

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Summary

A selection of evaluations from Faculty of 1000 covering the *Methanococcus maripaludis* genome; recombination in animal mitochondria; modulating cell cycle progression; gene silencing by microRNA directed methylation; yeast DNA breakage and repair.

The *Methanococcus maripaludis* genome

Complete genome sequence of the genetically tractable hydrogenotrophic methanogen *Methanococcus maripaludis*. Hendrickson EL, Kaul R, Zhou Y, Bovee D, Chapman P, Chung J, Conway de Macario E, Dodsworth JA, Gillett W, Graham DE, *et al. J Bacteriol* 2004, **186**:6956-6969.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-6-1-304.asp#Hendrickson>

Recombination in animal mitochondria

A broad survey of recombination in animal mitochondria. Piganeau G, Gardner M, Eyre-Walker A. *Mol Biol Evol* 2004, **21**:2319-2325.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-6-1-304.asp#Piganeau>

Modulating cell cycle progression

A common set of gene regulatory networks links metabolism and growth inhibition. Cam H, Balciunaite E, Blais A, Spektor A, Scarpulla RC, Young R, Kluger Y, Dynlacht BD. *Mol Cell* 2004, **16**:399-411.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-6-1-304.asp#Cam>

Gene silencing by microRNA directed methylation

MicroRNA binding sites in *Arabidopsis* class III HD-ZIP mRNAs are required for methylation of the template chromosome. Bao N, Lye KW, Barton MK. *Dev Cell* 2004, **7**:653-662.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-6-1-304.asp#Bao>

Yeast DNA breakage and repair

Conserved and nonconserved proteins for meiotic DNA breakage and repair in yeasts. Young JA, Hyppa RW, Smith GR. *Genetics* 2004, **167**:593-605.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-6-1-304.asp#Young>