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Chromosome pairing in *Arabidopsis*

A selection of evaluations from Faculty of **1000** covering chromosome pairing in *Arabidopsis*; hybrid inviability in birds and mammals; endogenous siRNAs in *Arabidopsis*; evolution of sex-biased genes in *Drosophila*; human patterns of genetic variation.

Chromosome territory arrangement and homologous pairing in nuclei of *Arabidopsis thaliana* are predominantly random except for NOR-bearing chromosomes. Pecinka A, Schubert V, Meister A, Kretz G, Klatte M, Lysak MA, Fuchs J, Schubert I. *Chromosoma* 2004, **113**:258-269.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-12-360.asp#Pecinka>

Hybrid inviability in birds and mammals

Rates of evolution of hybrid inviability in birds and mammals. Fitzpatrick BM. *Evolution Int J Org Evolution* 2004, **58**:1865-1870.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-12-360.asp#Fitzpatrick>

Endogenous siRNAs in *Arabidopsis*

Endogenous trans -acting siRNAs regulate the accumulation of *Arabidopsis* mRNAs. Vazquez F, Vaucheret H, Rajagopalan R, Lepers C, Gascoille V, Mallory AC, Hilbert JL, Bartel DP, Crété P. *Mol Cell* 2004, **16**:69-79.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-12-360.asp#Vazquez>

Evolution of sex-biased genes in *Drosophila*

Molecular evolution of sex-biased genes in *Drosophila*. Zhang Z, Hambuch TM, Parsch J. *Mol Biol Evol* 2004, **21**:2130-2739.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-12-360.asp#Zhang>

Human patterns of genetic variation

Population history and natural selection shape patterns of genetic variation in 132 genes. Akey JM, Eberle MA, Rieder MJ, Carlson CS, Shriver MD, Nickerson DA, Kruglyak L. *PLoS Biol* 2004, **2**:e286.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-12-360.asp#Akey>