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PublisherName	:	BioMed Central
PublisherLocation	:	London
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Articles selected by Faculty of 1000: Human *cis*-regulatory evolution; recombination in rice; *E. coli* two-component systems; optimization of protein properties; maize chromosome 1

ArticleInfo		
ArticleID	:	3455
ArticleDOI	:	10.1186/gb-2002-4-1-304
ArticleCitationID	:	304
ArticleSequenceNumber	:	17
ArticleCategory	:	Paper report
ArticleFirstPage	:	1
ArticleLastPage	:	3
ArticleHistory	:	RegistrationDate : 2002-12-18 OnlineDate : 2002-12-18
ArticleCopyright	:	BioMed Central Ltd2002
ArticleGrants	:	
ArticleContext	:	130594411

The Author(s)

## Summary

A selection of evaluations from Faculty of 1000 covering *cis*-regulatory evolution in humans, homologous recombination in rice, analysis of all *E. coli* two-component regulatory system mutants, rapid optimization of protein properties and microsatellite diversity in maize chromosome 1.

## Human *cis*-regulatory evolution

**Abundant raw material for *cis*-regulatory evolution in humans.** Rockman MV, Wray GA. *Mol Biol Evol* 2002 **19**:1991-2004.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2002-4-1-304.asp#rockman>

## Recombination in rice

**Efficient gene targeting by homologous recombination in rice.** Terada R, Urawa H, Inagaki Y, Tsugane K, Iida S. *Nat Biotechnol* 2002 **20**:1030-1034.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2002-4-1-304.asp#terada>

## *E. coli* two-component systems

**Transcriptome analysis of all two-component regulatory system mutants of *Escherichia coli* K-12.** Oshima T, Aiba H, Masuda Y, Kanaya S, Sugiura M, Wanner BL, Mori H, Mizuno T. *Mol Microbiol* 2002 **46**:281-291.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2002-4-1-304.asp#oshima>

## Optimization of protein properties

**Combining computational and experimental screening for rapid optimization of protein properties.** Hayes RJ, Bentzien J, Ary ML, Hwang MY, Jacinto JM, Vielmetter J, Kundu A, Dahiyat BI. *Proc Natl Acad Sci U S A* 2002

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2002-4-1-304.asp#hayes>

## Maize chromosome 1

**Patterns of Diversity and Recombination Along Chromosome 1 of Maize ( *Zea mays* ssp. *mays* L.).** Tenaillon MI, Sawkins MC, Anderson LK, Stack SM, Doebley J, Gaut BS. *Genetics* 2002 **162**:1401-1413.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2002-4-1-304.asp#tenaillon>