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Articles selected by Faculty of **1000**: comparative genomics of fruit ripening; gene co-regulation during evolution; histone acetylation during plant development; microRNA gene identification; CHIP-on-chip analysis in *E. coli*

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Summary

A selection of evaluations from Faculty of 1000 covering fruit ripening comparative genomics; gene co-regulation during evolution; histone acetylation during plant development; microRNA gene identification; ChIP-on-chip analysis in *E. coli*.

Comparative genomics of fruit ripening

Comprehensive EST analysis of tomato and comparative genomics of fruit ripening. Fei Z, Tang X, Alba RM, White JA, Ronning CM, Martin GB, Tanksley SD, Giovannoni JJ. *Plant J* 2004, **40**:47-59.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-11-356.asp#Fei>

Gene co-regulation during evolution

Gene co-regulation is highly conserved in the evolution of eukaryotes and prokaryotes. Snel B, van Noort V, Huynen MA. *Nucleic Acids Res* 2004, **32**:4725-4731.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-11-356.asp#Snel>

Histone acetylation during plant development

Reversible histone acetylation and deacetylation mediate genome-wide, promoter-dependent, and locus-specific changes in gene expression during plant development. Tian L, Fong MP, Wang JJ, Wei NE, Jiang H, Doerge RW, Chen ZJ. *Genetics* 2004, September 15.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-11-356.asp#Tian>

MicroRNA gene identification

Patterns of flanking sequence conservation and a characteristic upstream motif for microRNA gene identifications. Ohler U, Yekta S, Lim LP, Bartel DP, Burge CB. *RNA* 2004, **10**:1309-1322.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-11-356.asp#Ohler>

ChIP-on-chip analysis in *E. coli*

Genomic studies with *Escherichia coli* MeIR protein: applications of chromatin immunoprecipitation and microarrays. Grainger DC, Overton TW, Reppas N, Wade JT, Tamai E, Hobman JL, Constantinidou C, Struhl K, Church G, Busby SJ. *J Bacteriol* 2004, **186**:6938-6943.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-11-356.asp#Grainger>