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Articles selected by Faculty of **1000**: similar embryos from divergent genomes; gene expression variation in twins; the *E. coli* stress response network; adaptive immune system evolution; allopolyploid tobacco evolution

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Summary

A selection of evaluations from Faculty of 1000 covering similar embryos from divergent genomes; gene expression variation in twins; the *E. coli* stress response network; adaptive immune system evolution; allopolyploid tobacco evolution.

Similar embryos from divergent genomes

Making very similar embryos with divergent genomes: conservation of regulatory mechanisms of Otx between the ascidians *Halocynthia roretzi* and *Ciona intestinalis*. Oda-Ishii I, Bertrand V, Matsuo I, Lemaire P, Saiga H. *Development* 2005, **132**:1663-1674.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-5-322.asp#Oda-Ishii>

Gene expression variation in twins

Assessing natural variations in gene expression in humans by comparing with monozygotic twins using microarrays. Sharma A, Sharma VK, Horn-Saban S, Lancet D, Ramachandran S, Brahmachari SK. *Physiol Genomics* 2005, **21**:117-123.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-5-322.asp#Sharma>

The *E. coli* stress response network

Genome-wide analysis of the general stress response network in *Escherichia coli* : sigmaS-dependent genes, promoters, and sigma factor selectivity. Weber H, Polen T, Heuveling J, Wendisch VF, Hengge R. *J Bacteriol* 2005, **187**:1591-1603.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-5-322.asp#Weber>

Adaptive immune system evolution

Genes "waiting" for recruitment by the adaptive immune system: the insights from *Amphioxus*. Yu C, Dong M, Wu X, Li S, Huang S, Su J, Wei J, Shen Y, Mou C, Xie X, Lin J, Yuan S, Yu X, Yu Y, Du J, Zhang S, Peng X, Xiang M, Xu A. *J Immunol* 2005, **174**:3493-3500.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-5-322.asp#Yu>

Allopolyploid tobacco evolution

Preferential elimination of repeated DNA sequences from the paternal, *Nicotiana tomentosiformis* genome donor of a synthetic, allotetraploid tobacco. Skalická K, Lim KY, Matyasek R, Matzke M, Leitch AR, Kovarik A. *New Phytol* 2005, **166**:291-303.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-5-322.asp#Skalicka>