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Articles selected by Faculty *of 1000*: the origin of operons; human linkage disequilibrium maps; genomics finds novel secondary metabolites; complex epistasis of fly genes; how did the turtle get its shell?

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Summary

A selection of evaluations from Faculty of 1000 covering the origin of operons; human linkage disequilibrium maps; genomics finds novel secondary metabolites; complex epistasis of fly genes; how did the turtle get its shell?

The origin of operons

The origin and evolution of operons: the piecewise building of the proteobacterial histidine operon. Fani R, Brillì M, Liò P. *J Mol Evol* 2005, **60**:378-390.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-6-328.asp#Fani>

Human linkage disequilibrium maps

The linkage disequilibrium maps of three human chromosomes across four populations reflect their demographic history and a common underlying recombination pattern. De La Vega FM, Isaac H, Collins A, Scafe CR, Halldórsson BV, Su X, Lippert RA, Wang Y, Laig-Webster M, Koehler RT, *et al.* *Genome Res* 2005, **15**:454-462.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-6-328.asp#De>

Genomics finds novel secondary metabolites

Microbial genomics as a guide to drug discovery and structural elucidation: ECO-02301, a novel antifungal agent, as an example. McAlpine JB, Bachmann BO, Pirae M, Tremblay S, Alarco AM, Zazopoulos E, Farnet CM. *J Nat Prod* 2005, **68**:493-496.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-6-328.asp#McAlpine>

Complex epistasis of fly genes

Flexibility in a gene network affecting a simple behavior in *Drosophila melanogaster*. van Swinderen B, Greenspan RJ. *Genetics* 2005, **169**:2151-2163.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-6-328.asp#Swinderen>

How did the turtle get its shell?

Comprehensive survey of carapacial ridge-specific genes in turtle implies co-option of some regulatory genes in carapace evolution. Kuraku S, Usuda R, Kuratani S. *Evol Dev* 2005, **7**:3-17.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-6-328.asp#Kuraku>