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Identifying pol III-dependent genes

A selection of evaluations from Faculty of 1000 covering the identification of pol III-dependent genes, the genome sequence of *Photobacterium luminescens*, microbial genome dynamics, profiling ES cells and gene expression regulation by small RNAs.

Genome-wide location of yeast RNA polymerase III transcription machinery. Harismendy O, Gendrel CG, Soularue P, Gidrol X, Sentenac A, Werner M, Lefebvre O. *EMBO J* 2003, **22**:4738-4747.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-11-349.asp#Harismendy>

Entomopathogen genome

The genome sequence of the entomopathogenic bacterium *Photobacterium luminescens*. Duchaud E, Rusniok C, Frangeul L, Buchrieser C, Givaudan A, Taourit S, Bocs S, Boursaux-Eude C, Chandler M, Charles JF, *et al.* *Nat Biotechnol* 2003, Oct 5.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-11-349.asp#Duchaud>

Microbial genome dynamics

Horizontal gene transfer accelerates genome innovation and evolution. Jain R, Rivera MC, Moore JE, Lake JA. *Mol Biol Evol* 2003, **20**:1598-1602.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-11-349.asp#Jain>

Profiling ES cells

Molecular signature of human embryonic stem cells and its comparison with the mouse. Sato N, Sanjuan IM, Heke M, Uchida M, Naef F, Brivanlou AH. *Dev Biol* 2003, **260**:404-413.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-11-349.asp#Sato>

Gene expression regulation by small RNAs

Coupled degradation of a small regulatory RNA and its mRNA targets in *Escherichia coli*. Masse E, Escorcia FE, Gottesman S. *Genes Dev* 2003, **17**:2374-2383.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2003-4-11-349.asp#Masse>