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Bacterial ORFans: ORFs with no known homologs

A selection of evaluations from Faculty of **1000** covering bacterial ORFans: identifying ORFs with no known homologs; a fluorescent marker of histone phosphorylation; genome-wide chromatin analysis; protein macroarrays; studying clinically relevant *Trichomonas* variation.

Bacterial genomes as new gene homes: the genealogy of ORFans in *E. coli*. Daubin V, Ochman H. *Genome Res* 2004, **14**:1036-1042.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-7-336.asp#Daubin>

Fluorescent marker of histone phosphorylation

A genetically encoded fluorescent reporter of histone phosphorylation in living cells. Lin CW, Ting AY. *Angew Chem Int Ed Engl* 2004, **43**:2940-2943.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-7-336.asp#Lin>

Genome-wide chromatin analysis

The histone modification pattern of active genes revealed through genome-wide chromatin analysis of a higher eukaryote. Schübeler D, MacAlpine DM, Scalzo D, Wirbelauer C, Kooperberg C, Van Leeuwen F, Gottschling DE, O'Neill LP, Turner BM, Delrow J, Bell SP, Groudine M. *Genes Dev* 2004, **18**:1263-1271.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-7-336.asp#Schubeler>

Protein macroarrays

Pattern-based detection of different proteins using an array of fluorescent protein surface receptors. Baldini L, Wilson AJ, Hong J, Hamilton AD. *J Am Chem Soc* 2004, **126**:5656-5657.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-7-336.asp#Baldini>

Clinically relevant *Trichomonas* variation

Genetic variability between *Trichomonas vaginalis* isolates and correlation with clinical presentation. Rojas L, Fraga J, Sariago I. *Infect Genet Evol* 2004, **4**:53-58.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-7-336.asp#Rojas>