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Functional genomics of Bardet-Biedl syndrome

A selection of evaluations from Faculty of 1000 covering the functional genomics of Bardet-Biedl syndrome; sumo proteomics; phosphopeptide arrays; plant phosphoproteomics; novel antibiotic resistance genes.

Comparative genomic analysis identifies an ADP-ribosylation factor-like gene as the cause of Bardet-Biedl syndrome (BBS3). Chiang AP, Nishimura D, Searby C, Elbedour K, Carmi R, Ferguson AL, Secrist J, Braun T, Casavant T, Stone EM, Sheffield VC. *Am J Hum Genet* 2004, **75**:475-484.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-10-351.asp#Chiang>

Sumo proteomics

Global analysis of protein sumoylation in *Saccharomyces cerevisiae*. Wohlschlegel JA, Johnson ES, Reed SI, Yates JR. *J Biol Chem* 2004, Aug 23.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-10-351.asp#Wohlschlegel>

Phosphopeptide arrays

High-content peptide microarrays for deciphering kinase specificity and biology. Schutkowski M, Reimer U, ... , Alessi DR, Schneider-Mergener J. *Angew Chem Int Ed Engl* 2004, **43**:2671-2674.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-10-351.asp#Schutkowski>

Plant phosphoproteomics

Phosphoproteomics of the *Arabidopsis* plasma membrane and a new phosphorylation site database. Nühse TS, Stensballe A, Jensen ON, Peck SC. *Plant Cell* 2004, **16**:2934-2405.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-10-351.asp#Nuhse>

Novel antibiotic resistance genes

Uncultured soil bacteria are a reservoir of new antibiotic resistance genes. Riesenfeld CS, Goodman RM, Handelsman J. *Environ Microbiol* 2004, **6**:981-989.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-10-351.asp#Riesenfeld>