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Proteomics of sumoylation

A selection of evaluations from Faculty of 1000 covering the proteomics of sumoylation; sequencing single-molecules; membrane glycoproteomics; MHC haplotype sequencing; transcriptome evolution.

Global analyses of sumoylated proteins in *Saccharomyces cerevisiae* : induction of protein sumoylation by cellular stresses. Zhou W, Ryan JJ, Zhou H. *J Biol Chem* 2004, May 27.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-8-340.asp#Zhou>

Single-molecule sequencing

DNA mapping using microfluidic stretching and single-molecule detection of fluorescent site-specific tags. Chan EY, Goncalves NM, Haeusler RA, Hatch AJ, Larson JW, Maletta AM, Yantz GR, Carstea ED, Fuchs M, Wong GG, *et al.* *Genome Res* 2004, **14**:1137-1146.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-8-340.asp#Chan>

Membrane glycoproteomics

Lectin affinity as an approach to the proteomic analysis of membrane glycoproteins. Ghosh D, Krokhn O, Antonovici M, Ens W, Standing KG, Beavis RC, Wilkins JA. *J Proteome Res* 2004, **Jun 9**:Articles ASAP.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-8-340.asp#Ghosh>

MHC haplotype sequencing

Complete MHC haplotype sequencing for common disease gene mapping. Stewart CA, Horton R, Allcock RJ, Ashurst JL, Atrazhev AM, Coggill P, Dunham I, Forbes S, Halls K, Howson JM, *et al.* *Genome Res* 2004, **14**:1176-1187.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-8-340.asp#Stewart>

Transcriptome evolution

A neutral model of transcriptome evolution. Khaitovich P, Weiss G, Lachmann M, Hellmann I, Enard W, Muetzel B, Wirkner U, Ansorge W, Pääbo S. *PLoS Biol* 2004, **2**:E132.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-8-340.asp#Khaitovich>