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Summary

A selection of evaluations from Faculty *of* **1000** covering a description of the human plasma proteome, the *C. elegans* interactome, a primitive Y chromosome in papaya, a robot scientist and the expression profiling of preimplantation mouse embryos.

Human plasma proteome

The human plasma proteome: A non-redundant list developed by combination of four separate sources. Anderson NL, Polanski M, Pieper R, Gatlin T, Tirumalai RS, Conrads TP, Veenstra TD, Adkins JN, Pounds JG, Fagan R, Lobley A. *Mol Cell Proteomics* 2004, Jan 12.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2004-5-3-316.asp#Anderson

C. elegans interactome

A map of the interactome network of the metazoan *C. elegans* . Li S, Armstrong CM, Bertin N, Ge H, Milstein S, Boxem M, Vidalain PO, Han JD, Chesneau A, Hao T, *et al*. *Science* 2004, **303:**540-543.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2004-5-3-316.asp#Li

Primitive Y chromosome in papaya

A primitive Y chromosome in papaya marks incipient sex chromosome evolution. Liu Z, Moore PH, Ma H, Ackerman CM, Ragiba M, Yu Q, Pearl HM, Kim MS, Charlton JW, Stiles JI, *et al*. *Nature* 2004, **427:3**48-52.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2004-5-3-316.asp#Liu

Robot scientist

Functional genomic hypothesis generation and experimentation by a robot scientist. King RD, Whelan KE, Jones FM, Reiser PG, Bryant CH, Muggleton SH, Kell DB, Oliver SG. *Nature* 2004, **427:**247-252.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2004-5-3-316.asp#King

Profiling preimplantation mouse embryos

Dynamics of global gene expression changes during mouse preimplantation development. Hamatani T, Carter MG, Sharov AA, Ko MS. *Dev Cell* 2004, **6:**117-131.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2004-5-3-316.asp#Hamatani