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Summary

Profiling human embryonic stem cells; rearrangements in orthologous genomic regions; profiling the aging primate brain; conserved elements in eukaryotes; diversity of phytoplankton-associated bacteria

Profiling human embryonic stem cells

Gene expression signatures of seven individual human embryonic stem cell lines. Skottman H, Mikkola M, Lundin K, Olsson C, Strömberg AM, Tuuri T, Otonkoski T, Hovatta O, Lahesmaa R. *Stem Cells* 2005, August 4.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-9-346.asp#Skottman>

Rearrangements in orthologous genomic regions

DNA rearrangement in orthologous orp regions of the maize, rice and sorghum genomes. Ma J, Sanmiguel P, Lai J, Messing J, Bennetzen JL. *Genetics* 2005, **170**:1209-1220.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-9-346.asp#Ma>

Profiling the aging primate brain

Aging and gene expression in the primate brain. Fraser HB, Khaitovich P, Plotkin JB, Pääbo S, Eisen MB. *PLoS Biol* 2005, **3**:e274.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-9-346.asp#Fraser>

Conserved elements in eukaryotes

Evolutionarily conserved elements in vertebrate, insect, worm, and yeast genomes. Siepel A, Bejerano G, Pedersen JS, Hinrichs AS, Hou M, Rosenbloom K, Clawson H, Spieth J, Hillier LW, Richards S, Weinstock GM, Wilson RK, Gibbs RA, Kent WJ, Miller W, Haussler D. *Genome Res* 2005, July 15.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-9-346.asp#Siepel>

Diversity of phytoplankton-associated bacteria

Phylogenetic diversity and specificity of bacteria closely associated with *Alexandrium* spp. and other phytoplankton. Jasti S, Sieracki ME, Poulton NJ, Giewat MW, Rooney-Varga JN. *Appl Environ Microbiol* 2005, **71**:3483-3494.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2005-6-9-346.asp#Jasti>