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## High-throughput *Arabidopsis* metabolomics

A selection of evaluations from Faculty of 1000 covering high-throughput metabolomics in *Arabidopsis*; mitochondrial DNA nucleoids; behavioral epigenetics; the dissection of DNA-binding proteins; chemical genetics of adipogenesis.

**Application of a high-throughput HPLC-MS/MS assay to *Arabidopsis* mutant screening; evidence that threonine aldolase plays a role in seed nutritional quality.** Jander G, Norris SR, Joshi V, Fraga M, Rugg A, Yu S, Li L, Last RL. *Plant J* 2004, **39**:465-475.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-9-346.asp#Jander>

## Mitochondrial DNA nucleoids

**Organization and dynamics of human mitochondrial DNA.** Legros F, Malka F, Frachon P, Lombés A, Rojo M. *J Cell Sci* 2004, **177**:2653-2662.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-9-346.asp#Legros>

## Behavioral epigenetics

**Epigenetic programming by maternal behavior.** Weaver IC, Cervoni N, Champagne FA, D'Alessio AC, Sharma S, Seckl JR, Dymov S, Szyf M, Meaney MJ. *Nat Neurosci* 2004 June 27.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-9-346.asp#Weaver>

# Dissecting DNA-binding proteins

**Dissecting the engrailed Homeodomain-DNA interaction by phage-displayed shotgun scanning.** Sato K, Simon MD, Levin AM, Shokat KM, Weiss GA. *Chem Biol* 2004, **11**:1017-1023.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-9-346.asp#Sato>

# Chemical genetics of adipogenesis

**Chemical genetic identification of the histamine h1 receptor as a stimulator of insulin-induced adipogenesis.** Kawazoe Y, Tanaka S, Uesugi M. *Chem Biol* 2004 **11**:907-913.

For the Faculty of 1000 evaluation of this article please see: <http://genomebiology.com/reports/F1000/gb-2004-5-9-346.asp#Kawazoe>