Articles selected by Faculty *of* **1000**: *Salmonella* physiology; artificial endonucleases; *Ciona* genome; image informatics; plant defense responses.

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Summary

A selection of evaluations from Faculty *of* **1000** covering gene expression in *Salmonella*, artificial endonucleases, the draft genome of *Ciona intestinalis*, the use of image informatics to analyze *C. elegans*behavior and transcript profiling of plant defense responses.

Salmonella physiology

Unravelling the biology of macrophage infection by gene expression profiling of intracellular *Salmonella enterica* . Eriksson S, Lucchini S, Thompson A, Rhen M, Hinton JC. *Mol Microbiol* 2003, **47:**103-118.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2003-4-2-307.asp#Eriksson

Artificial endonucleases

Design, activity, and structure of a highly specific artificial endonuclease. Chevalier BS, Kortemme T, Chadsey MS, Baker D, Monnat RJ, Stoddard BL. *Mol Cell* 2002, **10:**895-905.

For the Faculty of 1000 evaluation of this article please see: http://genomebiology.com/reports/F1000/gb-2003-4-2-307.asp#Chevalier

Ciona genome

The draft genome of *Ciona intestinalis* : insights into chordate and vertebrate origins. Dehal P, Satou Y, Campbell RK, Chapman J, Degnan B, De Tomaso A, Davidson B, Di Gregorio A, Gelpke M, Goodstein DM, *et al*. *Science* 2002, **298:**2157-2167.

Image informatics

Using machine vision to analyze and classify Caenorhabditis elegans behavioral phenotypes quantitatively. Baek JH, Cosman P, Feng Z, Silver J, Schafer WR. *J Neurosci Methods* 2002, **118:**9-21.

Plant defense responses

Comprehensive transcript profiling of Pto- and Prf-mediated host defense responses to infection by *Pseudomonas syringae* pv. *tomato* . Mysore KS, Crasta OR, Tuori RP, Folkerts O, Swirsky PB, Martin GB. *Plant J* 2002 **32:**299-315.

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