

From: Faculty of 1000 <[REDACTED]>

To: Jeff Epstein <jeeproject@yahoo.com>

Subject: F1000 March 2011 update: Mitotic Hijacker

Date: Thu, 10 Mar 2011 16:37:49 +0000

If you're having trouble viewing this message, click to view in your default browser.



F1000 Monthly Update

[Evaluations](#)

[Rankings](#)

[Reports](#)

[Posters](#)

[Magazine](#)

[Faculty](#)

March 2011

[Editor's Choice](#)

[Features](#)

[Top 7](#)

[Reports](#)

[Posters](#)

[facebook link](#) [link ed-in link](#) [twitter link](#) [youtube link](#)

## Editor's Choice



### Mitotic Hijacker

How a parasite sneakily ensures its own replication.

### Immunology: Come Inside

Antibodies can block disease spread from inside a cell.

### Drug Discovery: Bitter Pill

Bitter-tasting molecules relax bronchial muscles.

### Physiology:

#### Calcium Kicks

Calcium channel regulation in fight-or-flight response.

## New this Month

**1,204**

Evaluations added

**7**

Articles that Change Clinical Practice

**14**

Articles with an F1000 Factor of 11+

## Current Issue

[latest issue](#)

## F1000 Features



[top](#)

### Infographic: Epigenetics - A Primer

Epigenetic effects regulate the activation or repression of genes in many ways. Here are a few of the molecular tricks, illustrated. *Stefan Kubicek*



### Ready, Reset, Go

Rudolf Jaenisch enjoys climbing mountains, rafting rapids, and unraveling the secrets of pluripotency -- knowledge that could someday lead to personalized regenerative medicine.  
*Karen Hopkin*

### One on One: Imprinting Diversity

Joachim Messing talks about how genomic imprinting may be a strong driver of diversity.  
*Cristina Luiggi*

### Epigenetics and Society

Did Erasmus Darwin foreshadow the tweaking of his grandson's paradigm?  
*Andrew D. Ellington*

### The Footprints of Winter

Epigenetic marks laid down during the cold months of the year allow flowering in spring and summer.  
*Ralf Müller and Justin Goodrich*

### Epigenetic Changes in Cancer

The study of how covalent marks on DNA and histones are involved in the origin and spread of cancer cells is also leading to new therapeutic strategies.  
*Manel Esteller*

### Environmental Impact

Research in behavioral epigenetics is seeking evidence that links experience to biochemistry to gene expression and back out again.  
*David Berreby*

### Best Places to Work for Postdocs, 2011

Setting up your own scientific laboratory is no easy task, but this year's respondents are using their postdoc experiences to prepare for the challenge.  
*Cristina Luiggi*



## Top 7 Evaluated Articles



[top](#)

A snapshot of the **highest-ranked articles** from a 30-day period.

- 1 Drug helps, doesn't hurt, lung disease**  
Respiratory distress syndrome patients treated with a neuromuscular blocker are more likely than those on a placebo to survive 90 days, and show no increase in muscle weakness - a common concern among doctors.
- 2 Skip the surgery?**  
A nonsurgical treatment for severe aortic stenosis, a type of heart disease characterized by the narrowing of the aortic valve opening, may provide an alternative for patients who are not candidates for open-heart surgery. The treatment replaces the aortic valve through a catheter.
- 3 How T regs limit inflammation**  
T regulatory cells can multiply their numbers by secreting the cytokine interleukin IL-35, which converts the population of killer T cells into regulatory cells that suppress inflammation, providing a new explanation for how inflammation is reeled in after an infection is cleared.
- 4 Natural helpers fight infection**  
A novel population of innate immune cells, identified in the gut adipose tissue of humans and mice and nicknamed "natural helper cells," produce large amounts of cytokines and may play an important role in fighting off parasites.
- 5 Cells sticking together**  
In response to tension from adjacent cells, alpha-catenin, a cell adhesion protein, recruits actin binding proteins to strengthen cell-to-cell junctions, rapidly reacting to rearrangements in the local environment.
- 6 Silent effects**  
Mutations in exons that do not change protein sequences can still have dramatic effects on gene expression in *E. coli*. Surprisingly, these effects are caused by

### Naturally Selected



**Desmond Julian**, who invented the concept of the coronary care unit, talks about **the importance of charity-funded research, prevention of heart disease, and the British Heart Foundation's 'Mending Broken Hearts' campaign.**

### Recommend a Free 30-day Trial to your Librarian

You can use our **online form** to send your recommendation. Alternatively, you may qualify for free access via **HINARI or Faculty Member sponsorship.**

changes in mRNA stability, not by codon bias.

## 7 Rat dad's diet affects pups

Male rats fed a high-fat diet had daughters with diabetes-like beta-cell dysfunction, showing, for the first time in mammals, that environment of the father can influence the phenotype of the offspring.

*This F1000 Top 7 is a snapshot of the highest-ranked articles from a 30-day period in the previous month, described by The Scientist reporting team. See also Top 7s in [Molecular Biology](#), [Genetics and Genomics](#), [Biochemistry](#) and [Cell Biology](#)*

To see the latest rankings, visit [\[redacted\]](#).

## Reports



[top](#)

The latest peer-reviewed **F1000 Reports** articles, published in F1000's two PubMed-indexed journals, are now available to [view](#).



### Medulloblastoma: advances and challenges

*Martine F. Roussel and Giles Robinson*

### Laminar fate specification in the cerebral cortex

*Nicolas Gaspard and Pierre Vanderhaeghen*



### The role of blood flow in determining the sites of atherosclerotic plaques

*Narges Amini, Amalia de Luca, Christina M. Warboys and Paul C. Evans*

### *Clostridium difficile*-a moving target

*Glenn S. Tillotson and Joni Tillotson*

## F1000 Posters



[top](#)

### Evaluated Poster of the Month

#### Neuroscience



### Role of dopamine and serotonin receptors in medial prefrontal and orbitofrontal cortex on impulsive choice in rats

Gipson et al. Based on: Neuroscience 2010 meeting. Evaluated by [Trevor W Robbins](#), University of Cambridge, UK

[Summary](#) | [Poster](#) | [Evaluation](#)

#### Recent conferences covered include:



- \* [23rd Lorne Cancer Conference 2011](#)
- \* [Biochemical Society 2011 - Recent Advances in Membrane Biochemistry](#)
- \* [Biochemical Society 2011 - Stress Responses - Molecules, Organisms and Environment](#)



You have received this message because you asked to receive updates from Faculty of 1000. For further information or enquiries please contact Customer Services at [REDACTED]. Your registered email address is: [REDACTED]. If you do not wish to receive any further messages, you may **click here to unsubscribe** at any time.

F1000, Faculty of 1000 Ltd | Science Navigation Group | Registered in England and Wales with Company Number 3739756.  
Middlesex House, 34-42 Cleveland Street | London, W1T 4LB | United Kingdom