

**From:** Faculty of 1000 [REDACTED]

**To:** Jeff Epstein <jeeproject@yahoo.com>

**Subject:** February update: Cells on standby - down but not out

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[Advert](#)

 [F1000 Monthly Update](#)

[Evaluations](#)

[Rankings](#)

[Reports](#)

[Posters](#)

[Magazine](#)

[Faculty](#)

February 2011

 [dow](#) [Editor's Choice](#)

 [dow](#) [Features](#)

 [dow](#) [Top 7](#)

 [dow](#) [Reports](#)

 [dow](#) [Posters](#)

 [facebook](#) [link](#)

 [ed-in](#)

 [twitter](#) [link](#)

 [youtube](#) [link](#)

## Editor's Choice



### Down but Not Out

Cells on standby are surprisingly busy. Hilary Collier thinks they might be busy protecting themselves against oxidative damage. An [F1000 Hidden Jewel](#).

### Microbiology: The Great Escape

How a virus escapes from membrane vacuoles to infect other cells.

### Physiology: Time and Temperature

Body temperature resets circadian rhythms.

### Developmental Biology:

**Loser's Fight Back**  
How cells escape death after a temporary setback.

## New this Month

**1,209**

Evaluations added

**5**

Articles that Change Clinical Practice

**14**

Articles with an F1000 Factor of 11+

## Current Issue

 [latest issue](#)

## F1000 Features



[top](#)



### Impure Genius

**Lewis Cantley** has made a career of turning chemical contaminants into groundbreaking discoveries - including novel lipids, potent inhibitors, and kinases involved in cancer.  
*Karen Hopkin*

### Face to Face with the Emotional Brain

How the amygdala responds to facial signals predicts both normal and psychopathologic emotional states.

*Ahmad R. Hariri & Paul J. Whalen*

### The Genes of Parkinson's Disease

The minority of Parkinson's cases now known to have genetic origins are shedding light on the cellular

### When Stress Is Good

Fast blood flow protects against atherosclerosis: implications for treatment. *Christina M. Warboys, Narges Amini, Amalia de Luca, and Paul C. Evans*

### One on One: Parasites Unite!

*Gabriele Sorci* discusses how invaders can band together to more effectively infect hosts.

### Do Fruit Flies Dream of Electric Bananas?

Visualizing neuronal activity in small brains over four dimensions. *Björn Brembs*

mechanisms of all the rest. *Bobby Thomas and M. Flint Beal*

### Opening a Can of Worms

A father's determination to help his son resulted in an experimental treatment for autism that uses roundworms to modulate inflammatory immune responses. *Bob Grant*

### Naturally Selected



Sir Iain Chalmers rips into clinical researchers for **not understanding what is known, not stating clearly what their research adds, and not publishing negative or 'disappointing' results.**

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## Top 7 Evaluated Articles



[top](#)

### 1 Immune response feeds parasite

*Salmonella* is able to outcompete resident gut microbes by deriving energy from the inflammatory immune response that is supposed to combat the pathogen.

### 2 Lung disease drug kind to muscles

Patients with acute respiratory distress syndrome using 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.

### 3 Making peace with gut flora

Dendritic cells in the gut have beta-catenin signaling turned on constantly in order to subdue inflammation and keep immune cells tolerant to commensal bacteria and food antigens, offering a potential therapeutic target for autoimmune diseases.

### 4 Thermo dynamics

Plants and yeast may be able to sense temperature through histone-mediated nucleosome rearrangements, which result in variations in gene expression, posing a possible mechanism for response to temperature stress.

### 5 New function for noncoding RNAs

Long noncoding RNAs, previously known to silence expression of certain genes, also play a role in gene activation.

### 6 Antibody action

Previously assumed to only act extracellularly, researchers show that antibodies can fight viruses inside the cell as well.

### 7 Pain relief for the addicted

In opiate-dependent patients, pain relief is tough to achieve, but those who received an N-methyl-D-aspartate receptor antagonist with anesthesia during back surgery reported less pain and needed less morphine during recovery.

*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 [Medicine](#), [Neuroscience](#), [Immunology](#).*

To see the latest rankings, visit <http://f1000.com>.

## Reports



[top](#)

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



**Chemical signaling in the gastrointestinal tract**

*L. Caetano M. Antunes, Julian E. Davies and B. Brett Finlay*

**The coming health crisis: indirect health effects of global climate change**

*Samuel S. Myers and Aaron Bernstein*



**Screening for pancreatic cancer: what can cyst fluid analysis tell us?**

*Walter G. Park*

**Is deep brain stimulation a prospective "cure" for addiction?**

*Wayne Hall and Adrian Carter*

## F1000 Posters Evaluated Poster of the Month



[top](#)

 **evaluated poster**

**Neuroscience**

**Bilateral lesions of the subthalamic nucleus prevent escalation of cocaine intake in rats**

Cohen et al. Based on: Neuroscience 2010 meeting.

Evaluated by **Trevor W Robbins**, University of Cambridge, UK

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

View our latest submissions, including from the recent:

- \* [Neuroscience 2010 meeting](#)
- \* [5th Conference of the Hellenic Society for Computational Biology and Bioinformatics](#)
- \* [52nd American Society of Hematology \(ASH\) Annual Meeting and Exposition](#)

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