

From: Faculty of 1000 <[REDACTED]>

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Subject: Faculty of 1000 Monthly Update - November 2010

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[F1000 Monthly Update](#)

[Evaluations](#) [Rankings](#) [Reports](#) [Posters](#) [Magazine](#) [Faculty](#) **November 2010**

[Editor's Choice](#)

[F1000 Features](#)

[Top 7](#)

[F1000 Posters](#)

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Editor's Choice

main article

Cell Biology: Gateway to the cilium

A cell's "for cilia only" address label.

Immunology: Gut reactions

Can gut bacteria influence arthritis?

Cell Biology: Biosensor beacon

Spider silk protein is used as a molecular spring to measure tension in cell adhesion.

Hidden Jewel: Infection plagues IQ?

Fighting infections saps energy from developing brain.

New this Month

1,096

Evaluations added

7

Articles that Change Clinical Practice

2

Articles with Dissents

[new on f1000.com](#)

Current Issue

F1000 Features

[top](#)

main article

Heads and Tales

Randall Moon has looked to tadpoles and stem cells for clues about embryonic development and cell fate. Now he has his eye on turning

Cancer's Conversions

A process at the heart of gastrulation in the developing embryo may be a useful model for tumor progression. *By Nancy Gavert and Avri Ben-Ze'Ev.*

One on One: Genome Blossoms

Pioneering genome cell biologist Tom Misteli on chromatin organization and the most detailed 3-D model of a eukaryotic genome reported to date.

Thought Experiment

On Plasmids: Genome synthesis for the rest of us. Directed evolution of entire genomes might not be the best way to generate new function. *By Andrew Ellington.*

latest issue

Driving Self-Recognition

More than 30,000 different proteins generated by one gene are part of an entirely unexpected signaling mechanism that guides growing neurons.

Elemental Shortage

The world is running out of cheap phosphorus, just as biologists are



[middle advert](#)

Top 7 Evaluated Articles



[top](#)

1 **How cilia talk**

Primary (non-motile) cilia use membrane proteins in their role as a coordinator of the cell's signaling pathways. New findings show how a cilium retains those membrane proteins - a barrier at its base made up of proteins called septins.

2 **To stent or not?**

A large randomized trial demonstrates that stenting and surgical clearing of arteries are safe and equally effective ways of treating the narrowing of the carotid arteries, called stenosis.

3 **Diabetes dilemmas**

This clinical trial demonstrates that two popular high blood pressure drugs had no effect on progressive kidney damage, but did slow degeneration of the retina - two complications of Type 1 diabetes.

4 **One path to obesity**

The authors report a novel mechanism by which a high-fat diet can alter the expression of a large number of obesity-associated genes, suggesting new approaches to treating obesity and insulin resistance.

5 **Coat structures**

Crystallographic analyses of subunits of the COPI coat - a critical structure for the transport of protein-filled vesicles from the Golgi back to the endoplasmic reticulum - reveal similarities to two other major vesicle coats in the cell, suggesting a common origin for this type of structural protein.

6 **Sensing tension**

This study demonstrates a molecular mechanism for how adherens junctions - protein complexes that occur at cell-cell junctions in epithelial tissues - sense and respond to mechanical forces in the cell.

7 **Monitoring patients**

Monitoring patients after surgery using pulse oximetry, which measures the oxygenation of arterial blood, can improve patient outcomes and lower overall health-care costs by reducing the number of emergency resuscitations and trips to the intensive care unit.

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 [Neuroscience](#), [Developmental Biology](#), [Immunology](#), [Cell Biology](#), [Hidden Jewels](#).

To see the latest rankings, visit <http://F1000.com/>.

beginning to understand the role it plays in evolution and human health.

Life Sciences Salary Survey 2010

Scientists are making the most of their careers despite dropping salaries and rising lab costs.

Naturally Selected

 [video preview image](#)

David Nutt talks about his work at Imperial College studying the

 [molecular underpinnings of addiction](#).

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F1000 Posters

Poster of the month

[top](#)

evaluated
poster

Neurological Disorders

An immunotherapeutic strategy targeting neurotoxicity of tPA: A new hope for the treatment of stroke

Macrez et al. Based on: International Symposium on Neuroprotection and Neurorepair 2010.

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

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[World Congress on Pain 2010](#)

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