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## Weekly Editors' Picks

### When Malaria Slips a Vaccine's Net



This synopsis describes recent research by Victoria Barclay et al., in which a candidate malaria vaccine promoted the evolution of more virulent malaria parasites in mice.

### Musical Melody and Speech Intonation: Singing a Different Tune?



Pitch changes are an integral part of both spoken language and song. Despite sharing some of the same psychological and neural mechanisms, this essay by Robert Zatorre and Shari Baum concludes that there are fundamental differences between them.

### Chromatin Proteins: Key Responders to Stress



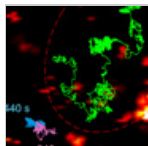
Systematic functional and mapping studies of histone modifications in yeast show that most chromatin regulators are more important for dynamic transcriptional reprogramming than for steady-state gene expression. Read more in this primer, discussing research by Oliver Rando and colleagues.

### A Window into the Workings of the Segmentation Clock



In a recent research article by Andrew Oates and colleagues, as explored in synopsis, the authors combine biochemical, embryological, and mathematical approaches to uncover an important role for protein-protein interactions in determining the dynamics of the somite-forming segmentation clock in vertebrates.

### Fast, Slow, or Not at All: The Extracellular Matrix Controls Movement of Signaling Molecules



This synopsis discusses a single-molecule imaging study, revealing that heparan sulfate chains in the pericellular matrix present a structured network of binding sites that controls FGF2 transport. Read the full research article by David Fernig and colleagues.

## Other PLOS Content

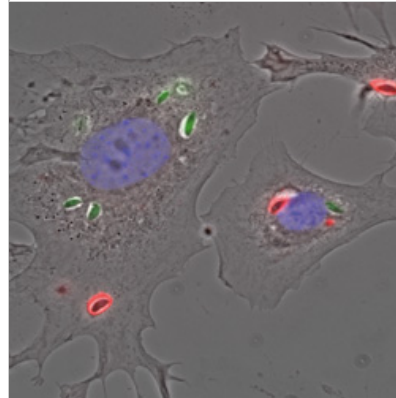
### PLOS Computational Biology

Modeling of Pharmacokinetics of Cocaine in Human Reveals the Feasibility for Development of Enzyme Therapies for Drugs of Abuse

### PLOS ONE

Egg Speckling Patterns Do Not Advertise Offspring Quality or Influence Male Provisioning in Great Tits

## July 2012 Issue



**PLOS Biology** is a peer-reviewed, open-access journal featuring research articles of exceptional significance in all areas of biological science, from molecules to ecosystems.



### PLOS Biologue

PLOS Biology launches new community blog



### New Life Forms

Will we ever discover or create them?



### Author Guidelines

How to submit to PLOS Biology's Education series



## What the community is saying



[caseybergman](#)  
[@BioMickWatson](#) - Redfield claims "there are many more complete genome sequences for humans than for any other"

1 new tweet



[lucaborger](#) Wish I'd had THIS genetics course as a student: [bit.ly/MUEeGZ](#) #teaching #science  
37 minutes ago · reply · retweet · favorite



[lucaborger](#) Pitch information in music & speech is processed differently in the brain - read this nice new essay: [bit.ly/T2I3h3](#) #science #music  
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### **ARRIVE Guidelines**

The ARRIVE (Animal Research: Reporting In Vivo Experiments) guidelines have been developed by the NC3Rs to improve standards of reporting and ensure that the data from animal experiments can be fully evaluated and utilized. The guidelines are primarily aimed at scientists writing up their research for publication or involved in peer review.

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