

contents

fall 2010

focus articles

- 5** | **How to Build a Giant: Biomechanics of Sauropod Dinosaurs**
By Fernando Racimo
- 9** | **Through the Past, Brightly: Gamma-Ray Bursts and the Early Universe**
By Sarah Harland-Logan
- 13** | **Mitochondrial DNA Mutations in Cancer: Insight or Oversight?**
By Sana Raouf



general articles

- 20** | **H1N1 Looking Back: Swine Flu and Its Vaccine**
By Amarachi Eseonu
- 22** | **Nano Delivers Big: A Novel Approach to Disease Therapeutics**
By Sachin Patel
- 25** | **Comment: President Obama's 2011 Plan for Science**
By Julia Ransohoff
- 29** | **Antibiotic Resistant Bacteria: The Continuing Fight**
By Seth Cassel

THE HARVARD SCIENCE REVIEW

Presidents:

Susan De Wolf and Amrita Goyal

Editors in Chief:

Katherine Ransohoff and Yongtian Tan

Design Editor:

Ayse Baybars

Business Managers:

Ayse Baybars, Remen Okoruwa and Katherine Ransohoff

News and Views Editor:

Fernando Racimo

Web Manager:

Lucie Guo

Associate Editors:

Pushan Dasgupta, Alexia Hwang, Lucie Guo, Fernando Racimo, Sana Raof, Lauren Schumacher,

Design Board:

Elizabeth Meller

Faculty Advisors:

David Haig, Ph.D., David Morin, Ph.D. and Andrew Berry, Ph.D.

Cover Design by
Sana Raof

The Harvard Science Review is published twice a year by Harvard Science Review, Inc., 4 University Hall, Harvard University, Cambridge, MA 02138. The Harvard Science Review is a publication of a Harvard College student-run organization. Copyright 2008 Harvard Science Review. All rights reserved. Opinions expressed in this publication do not necessarily reflect the views of the editors. The Harvard name and/or VERITAS shield are trademarks of the President and Fellows of Harvard College and are used by permission of Harvard University.

3 news briefs

Decoding the Neanderthal Genome
Alternatives to Costly Catalysts for Diesel Fuel
Transdifferentiation of Skin Cells into Heart Cells
Microfluidic Model of the Human Lung

16 reports

Peptidomimetic Antibiotics: a New Class of Drugs to
Combat Resistant Bacteria?
... Daniel Haldar
Deep Brain Stimulation
... Anirudh Penumaka

27 faculty spotlight

Richard Wrangham
... Ayse Baybars



credit: James Emery (Wikimedia Commons).