# THE SCIENTIST

# CONTENIDO

# VOLUMEN 26 No. 4, APRIL 2012

## FEATURES

#### 32 Are Cancer Stem Cells Ready for Prime Time?

A flood of new discoveries has refined our definition of cancer stem cells, Now it's up to human clinical trials to test if they can make a difference in patients.

Suling Liu, Hasan Korkaya, and Max S. Wicha.

#### **38 Deliberating over Danger.**

The creation of H5N1 bird flu strains that are transmissible between mammals has thrown the scientific community into a heated debate about whether such research should be allowed and how it should be regulated

#### 47 Best Places to Work for Postdocs, 2012.

Much has changed in the last 10 years for postdocs, who are staying in their positions longer than ever before — and coming out with more to chow for it.

Sabrina Richards.

## DEPARTMENTS

## **12** From the Editorial

Agents Provocateurs Asking pointed questions is a key part of the scientific process.

Mary Beth Aberlin.

# 16 Notebook

Marked for Life; Microscopy Boot Camp; Robo Rat; Bushmeat Roulettes.

## 26 Critic at Large. Reading into the Future.

Will traditional scientific journals follow newspapers into oblivion? *Richard Smith.* 

## 29 Critic at Large.

#### Antibiotics in the Animals We Eat.

Low-dose antibiotics in animal feed fuel drug-resistance in human infectious deseases.

Bonnie M. Marshall and Stuart B. Levy.

## 31 Modus Operandi.

#### A Brighter Beacon.

A novel liquid laser set-up detects single nucleotide mutations in a cancer gene. *Edyta Zielinska*.

### 54 **The Literature**

Rab15 and CLIC3 form a malignant alliance; megascale ocean eddies redistribute nutrients; matching gene networks across species.

## 56 Profile.

## Truth and Beauty.

With strong foundations in both art and science, Ahna Skop has been able to capture the marvel of — and mechanisms behind — cytokinesis. *Karen Hopkin*.

## 59 Scientist to Watch. Emmeline Hill.

Hannah Waters.

#### 61 Lab Tools Live and in Color. How to track RNA in living cells. Sarah Webb.

## 65 Lab Tools.

**Eyes on Cancer.** Techniques for watching tumors do their thing. *Amber Dance.* 

## 69 Careers.

## The Best of Both Worlds.

Choosing to work in industry does not preclude a return to academe. *Hannah Waters*.

## 86 Reading Frames.

#### **Shopping Your Science.**

A dose of marketing training may help you win grants, woo collaborators, and land jobs. *Marc J. Kuchner*.

Capsule Reviews. Bob Grant.

88 Foundations. The World in a Cabinet, 1600s. Sabrina Richards.

## **IN EVERY ISSUE**

- 11 Contributors
- 15 Speaking of Science.
- 74 The Guide.
- 78 Recruitment.