

# ***THE SCIENTIST***

## CONTENIDO

VOLUMEN 27 No. 4, APRIL 2013

### FEATURES

- 36 **Models of Transparency.**  
Researchers are taking advantage of small, transparent zebrafish embryos and larvae — and a special strain of see through adults — understand the development and spread of cancer.  
*Joan K. Heathm David Langenau, Kirsten C. Sadler, and Richard White.*
- 42 **After Chemo.**  
Research into how the brain suffers as a result of chemotherapy is revealing potential avenues for ameliorating cognitive decline.  
*Ellen A. Walker.*
- 48 **Best Places to Work for Postdocs, 2013.**  
This year's survey concludes more than a decade of highlighting the institutions that treat postdoctoral researchers as valued members of the scientific community.  
*The Scientist Staff.*

### DEPARTMENTS

- 12 **From the Editorial**  
**Making Cancer More Transparent.**  
A Flood of new data will help in the ongoing quest to eradicate the disease.  
*Mary Beth Aberlin.*
- 16 **Notebook**  
**Speed-Sensitive Denticles; An Ear for Home; Catching Criminals; The Cancer-Test Kid.**
- 27 **Critic at Large.**  
**Cancer Clinical Trials of Tomorrow.**  
Advances in genomics and cancer biology will alter the design of human cancer studies.  
*Tomasz M. Beer.*
- 31 **Critic at Large.**  
**Border Buffers.**  
Protected areas help to conserve imperiled tropical forest, but many are struggling to sustain their resident species  
*William Laurence.*

- 35 **Modus Operandi.**  
**Mimicking Mussels.**  
Scientists develop a gel that mimics mollusc glue to coat the insides of blood vessels.  
*Ruth Williams.*
- 52 **The Literature.**  
**Golgi outposts and dendrite morphology; aging and intestinal barrier dysfunction; histone acetylation and intracellular pH.**
- 54 **Profile.**  
**Up, Up and Array.**  
By scrutinizing gene expression profiles instead of individual oncogenes, Todd Golub launched a powerful platform for diagnosing, classifying, and treating cancer.  
*Megan Scudellari.*
- 59 **Scientist to Watch.**  
**Sarkis Mazmanian.**  
*Jef Akst.*
- 60 **Lab Tools**  
**Pluripotent Until Needed.**  
Microarrays help keep induced pluripotent stem cell lines in check, from start to finish.  
*Beth Marie Mole.*
- 64 **Lab Tools**  
**Structure by Feel.**  
Applying the sensitive touch of atomic force microscopy to DNA, cells, and proteins.  
*Amy Maxmen.*
- 67 **Careers.**  
**Start it Up.**  
Young researchers who left the academic path to transform their bright ideas into thriving companies discuss their experiences and how you can launch your own business.  
*Dan Cossins.*
- 70 **Reading Frames.**  
**The Roots of Violence.**  
Archaeology can shine needed light on the evolution of our aggressive tendencies  
*Travis Rayne Pickering.*
- Capsule Reviews.**  
*Annie Gottlieb.*

84      **Foundations.**  
          **“White-Blooded” Icefish, 1927.**  
          *Dan Cossins.*

**IN EVERY ISSUE**

11      **Contributors.**

14      **Speaking of Science.**

72      **The Guide.**

81      **Recruitment.**