

# ***THE SCIENTIST***

## CONTENIDO

VOLUMEN 27 No. 1, JANUARY 2013

### FEATURES

- 28 **Fighting Microbes with Microbes.**  
Doctors turn to good microbes to fight disease. Will the same strategy work with crops?  
*Amy Coombs.*
- 34 **Steal My Sunshine.**  
How photosynthesis organisms get taken up, passed around, and discarded throughout the eukaryotic domain.  
*David Smith.*
- 41 **Games for Science.**  
Scientists are using video games to tap the collective intelligence of people around the world, while doctors and educators are turning to games to treat and teach.  
*The Scientist Staff.*

### DEPARTMENTS

- 12 **From the Editorial**  
**Staying in Touch.**  
Searching for life beyond our teeming planet has led to some innovative, collaborative approaches to generating knowledge right here at home.  
*Mary Beth Aberlin .*
- 15 **Notebook**  
**Arctic Bloomers; Decoding Dreams; Koala Time Machine; Cleansing the Clinic.**
- 22 **Critic at Large.**  
**Genomics-Informed Pathology.**  
A new breed of pathologist will interpret information from whole genome sequencing.  
*Dennis P. Wall and Peter J. Tonellato.*
- 24 **Critic at Large.**  
**Gaming with Autism.**  
Video games show promise for autism intervention — but their value needs

to be carefully assessed.  
*Micah Mazurek.*

- 27 **Modus Operandi.**  
**Sperm Shadows.**  
Tracking the shadows cast by sperm reveals their precise 3-D movements.  
*Ruth Williams.*
- 44 **The Literature.**  
**3-D patterning of biofilms; microfluidic sorting of mutant worms; autophagy spares neurons.**
- 47 **Profile.**  
**Going Boldly Forth.**  
Gregory Hannon believes in taking risks — an approach that’s enabled him to make exciting new discoveries in the world of small RNAs.  
*Karen Kopkin.*
- 55 **Scientist to Watch.**  
**Philip Low.**  
*Kerry Grens.*
- 56 **Lab Tools**  
**Limber LIMS.**  
Using laboratory information management systems (LIMS): three case studies.  
*Nichollette Zeliadt.*
- 60 **Lab Tools**  
**Macro, Mini, Micro.**  
Clever microfluidic platforms for studying protein-protein interactions.  
*Carina Storrs.*
- 63 **Bio Business**  
**A Dime a Dozen.**  
Affordable diagnostic test tackle the world’s most pressing health problems.  
*Megan Scudellari.*
- 66 **Reading Frames.**  
**Sex and the Primordial Ooze.**  
The rise of vertebrate copulation may have driven crucial evolutionary change and explosive species radiation.  
*John Long.*
- Capsule Reviews.**  
*Annie Gottlieb & Bob Grant.*
- 76 **Foundations.**  
**Slices of Life, circa 1872.**  
*Dan Cossins.*

**IN EVERY ISSUE**

11 **Contributors.**

14 **Speaking of Science.**

68 **The Guide.**

73 **Recruitment.**