

1200 New York Avenue, NW  
 Washington, DC 20005

Editorial: 202-326-6550, FAX 202-289-7562  
 News: 202-326-6591, FAX 202-371-9227

Bateman House, 82-88 Hills Road  
 Cambridge, UK CB2 1LQ

+44 (0) 1223 326500, FAX +44 (0) 1223 326501

**SUBSCRIPTION SERVICES** For change of address, missing issues, new orders and renewals, and payment questions: 866-434-AAAS (2227) or 202-326-6417, FAX 202-842-1065. Mailing addresses: AAAS, P.O. Box 96178, Washington, DC 20090-6178 or AAAS Member Services, 1200 New York Avenue, NW, Washington, DC 20005

**INSTITUTIONAL SITE LICENSES** please call 202-326-6755 for any questions or information

**REPRINTS:** Author Inquiries 800-635-7181

Commercial Inquiries 803-359-4578

**PERMISSIONS** 202-326-6765, permissions@aaas.org

**MEMBER BENEFITS** AAAS Travels: Betchart Expeditions 800-252-4910; Apple Store www.store.apple.com/us/go/epstore/aaas; NASA Federal, 1-888-NASA-FCU (1-888-627-2328) or www.nasafcu.com; Cold Spring Harbor Laboratory Press Publications www.cshlpress.com/affiliates/aaas.htm; Hertz 800-654-2200 CDP#343457; Seabury & Smith Life Insurance 800-424-9883; Subaru VIP Program 202-326-6417; Nationwide Insurance http://nationwide.com/aaas; Other Benefits: AAAS Member Services 202-326-6417 or http://membercentral.aaas.org/discounts.

science\_editors@aaas.org (for general editorial queries)

science\_letters@aaas.org (for queries about letters)

science\_reviews@aaas.org (for returning manuscript reviews)

science\_bookrevs@aaas.org (for book review queries)

Published by the American Association for the Advancement of Science (AAAS), *Science* serves its readers as a forum for the presentation and discussion of important issues related to the advancement of science, including the presentation of minority or conflicting points of view, rather than by publishing only material on which a consensus has been reached. Accordingly, all articles published in *Science*—including editorials, news and comment, and book reviews—are signed and reflect the individual views of the authors and not official points of view adopted by AAAS or the institutions with which the authors are affiliated.

AAAS was founded in 1848 and incorporated in 1874. Its mission is to advance science, engineering, and innovation throughout the world for the benefit of all people. The goals of the association are to: enhance communication among scientists, engineers, and the public; promote and defend the integrity of science and its use; strengthen support for the science and technology enterprise; provide a voice for science on societal issues; promote the responsible use of science in public policy; strengthen and diversify the science and technology workforce; foster education in science and technology for everyone; increase public engagement with science and technology; and advance international cooperation in science.

**INFORMATION FOR AUTHORS**

See pages 716 and 717 of the 8 February 2013 issue or access www.sciencemag.org/about/authors

EXECUTIVE EDITOR **Monica M. Bradford**  
 EXECUTIVE PUBLISHER **Alan I. Leshner**  
 CHIEF DIGITAL MEDIA OFFICER **Rob Covey**  
 MANAGING EDITOR, RESEARCH JOURNALS **Katrina L. Keler**  
 DEPUTY EDITORS **Barbara R. Jansy, Andrew M. Sugden, Valda J. Vinson**

**EDITORIAL SENIOR EDITORS/COMMENTARY** Lisa D. Chong, Brad Wible; **SENIOR EDITORS** Gilbert J. Chin, Pamela J. Hines, Paula A. Kiberstis (Boston), Marc S. Lavine (Toronto), Beverly A. Purnell, L. Bryan Ray, Guy Riddihough, H. Jesse Smith, Phillip D. Szuroim (Tennessee), Jake S. Yeston, Laura M. Zahn (San Diego); **ASSOCIATE EDITORS** Melissa R. McCartney (Education Projects), Kristen L. Mueller, Jelena Stajic, Sacha Vignieri (Oregon), Nicholas S. Wigginton (Michigan); **BOOK REVIEW EDITOR** Sherman J. Suter; **ASSOCIATE LETTERS EDITOR** Jennifer Sills; **EDITORIAL MANAGER** Cara Tate; **SENIOR COPY EDITORS** Jeffrey E. Cook, Chris Filiatreau, Cynthia Howe, Harry Jach, Lauren Kmeck, Barbara P. Ordway, Trista Wagoner; **SENIOR EDITORIAL COORDINATORS** Carolyn Joy, Beverly Shields; **EDITORIAL COORDINATORS** Ramatoulaye Diop, Jole S. Granger, Lisa Johnson, Anita Wynna; **PUBLICATIONS ASSISTANTS**, Aneera Dobbins, Jeffrey Hearn, Doud Mathieu, Le-Toya Mayne Flood, Shannon McMahon, Scott Miller, Jerry Richardson, Brian White; **EDITORIAL ASSISTANT** Patricia M. Moore; **EXECUTIVE ASSISTANT** Alison Crawford; **ADMINISTRATIVE SUPPORT** Maryrose Madrid; **INTERN Fanny Bernardon**

**EDITORIAL DIRECTOR, WEB AND NEW MEDIA** Stewart Wills; **SENIOR WEB EDITOR** Sarah Crespi; **WEB DEVELOPMENT MANAGER** Martyn Green; **INTERNS** Kristine Hamilton, Linda Poon

**NEWS MANAGING EDITOR** John Travis; **INTERNATIONAL NEWS EDITOR** Richard Stone; **DEPUTY NEWS EDITORS** Robert Coontz, Elizabeth Culotta, David Grimm (Online), David Malakoff, Leslie Roberts; **SENIOR CORRESPONDENTS** Eliot Marshall, Jeffrey Mervis, Elizabeth Pennisi **NEWS WRITERS** Yudhijit Bhattacharjee, Adrian Cho, Jennifer Couzin-Frankel, Carolyn Gramling, Jocelyn Kaiser, Richard A. Kerr, Robert F. Service (Pacific NW), Erik Stokstad, Emily Underwood; **WEB DEVELOPER** Daniel Berger; **SPECIAL MEDIA STRATEGIST** Meghna Sachdev; **INTERN** Kelly Servick; **CONTRIBUTING CORRESPONDENTS** John Bohannon, Jon Cohen (San Diego, CA), Ann Gibbons, Sam Keam, Eli Kintisch, Andrew Lawler, Mitch Leslie, Charles C. Mann, Virginia Morell, Heather Pringle; **COPY EDITORS** Kara Estelle, Nora Kelly; **ADMINISTRATIVE SUPPORT** Scherraine Mack; **BUREAU** San Diego, CA: 760-942-3252, FAX 760-942-4979; Pacific Northwest: 503-963-1940

**PRODUCTION DIRECTOR** Wendy K. Shank; **ASSISTANT MANAGER** Rebecca Doshi; **SENIOR SPECIALISTS** Steve Forrester, Anthony Rosen; **SPECIALIST** Jacob Hedrick **PREFLIGHT DIRECTOR** David M. Tompkins; **MANAGER** Marcus Spiegler; **SPECIALISTS** Jason Hillman, Tara Kelly

**ART DIRECTOR** Yael Fitzpatrick; **ASSOCIATE ART DIRECTOR** Laura Creveling; **SENIOR ILLUSTRATORS** Chris Bickel, Katharine Suttiff; **ILLUSTRATOR** Valerie Altounian; **SENIOR ART ASSOCIATES** Holly Bishop, Preston Huey; **ART ASSOCIATES** Kay Engman, Garvin Grullón, Chrystal Smith; **PHOTO EDITOR** Leslie Blizard

**SCIENCE INTERNATIONAL**

**EUROPE** (science@science-int.com) **EDITORIAL:** INTERNATIONAL MANAGING EDITOR Andrew M. Sugden; **SENIOR EDITOR/COMMENTARY** Julia Fahrenkamp-Uppenbrink; **SENIOR EDITORS** Caroline Ash, Stella M. Hurtle, Ian S. Osborne, Peter Stern, Maria Cruz; **CONTRIBUTING EDITOR** Helen Pickersgill; **EDITORIAL SUPPORT** Rachel Roberts, Alice Whaley; **ADMINISTRATIVE SUPPORT** Janet Clements, Joan Cuthbert, John Wood; **NEWS DEPUTY NEWS EDITOR, U.K.** Daniel Clery; **CONTRIBUTING EDITOR, EUROPE** Martin Enserink; **CONTRIBUTING CORRESPONDENTS** Michael Balter (Paris), Kai Kupferschmidt (Berlin), Tania Rabesandratana (Brussels), Gretchen Vogel (Berlin)

**ASIA** Japan Office: Asca Corporation, Tomoko Furusawa, Rustic Bldg. 7F, 77 Tenjin-cho, Shinjuku-ku, Tokyo 162-0808, Japan; +81 3 6802 4616, FAX +81 3 6802 4615, inquiry@sciencemag.jp; **CONTRIBUTING EDITOR, ASIA** Mara Hvistendahl [China: mhivstent@aaas.org]; **CONTRIBUTING CORRESPONDENTS** Dennis Normile [Japan: dnormile@gol.com]; Christina Larson [China: christina.larson@gmail.com]; Pallava Bagla [South Asia: pallava.bagla@gmail.com]

**LATIN AMERICA** CONTRIBUTING CORRESPONDENT Lizzie Wade [Mexico City: lizziewade@outlook.com]

**FULFILLMENT SYSTEMS AND OPERATIONS** (membership@aaas.org); **CUSTOMER SERVICE SUPERVISOR** Pat Butler; **SPECIALISTS** LaToya Casteel, Michelle Ofordire, Javia Jennings, Chanta Stewart; **MANAGER, DATA ENTRY** Mickie Napoleoni; **DATA ENTRY SPECIALISTS** JJ Regan, Jaimee Wise, Fiona Giblin

**BUSINESS OPERATIONS AND ADMINISTRATION DIRECTOR** Deborah Rivera-Fuenholl; **BUSINESS SYSTEMS AND FINANCIAL ANALYSIS DIRECTOR** Randy Yi; **MANAGER OF FULFILLMENT SYSTEMS** Neal Hawkins; **SYSTEMS ANALYST** Nicole Mehmedovich; **MANAGER, BUSINESS ANALYSIS** Eric Knott; **MANAGER, BUSINESS OPERATIONS** Jessica Tierney; **BUSINESS ANALYSTS** Cory Lipman, Cooper Tilton, Celeste Troxler; **FINANCIAL ANALYST** Jeremy Clay; **RIGHTS AND PERMISSIONS:** ASSISTANT DIRECTOR Emilie David; **ASSOCIATE** Elizabeth Sandler; **MARKETING DIRECTOR** Ian King; **MARKETING MANAGERS** Alison Chandler, Julianne Wielga, Justin Sawyers; **MARKETING ASSOCIATES** Mary Ellen Crowley, Elizabeth Sattler, Rebecca Rifkin; **SENIOR MARKETING EXECUTIVE** Jennifer Reeves; **DIRECTOR, SITE LICENSING** Tom Ryan; **DIRECTOR, CORPORATE RELATIONS** Eileen Bernadette Moran; **SENIOR PUBLISHER RELATIONS SPECIALIST** Kiki Forsythe; **PUBLISHER RELATIONS MANAGER** Catherine Holland; **PUBLISHER RELATIONS, EASTERN REGION** Keith Layson; **PUBLISHER RELATIONS, WESTERN REGION** Ryan Rexroth; **CUSTOMER RELATIONS MANAGER** Iquo Edim; **CUSTOMER RELATIONS ANALYSTS** Simon Chong, Lana Guz; **ASSOCIATE DIRECTOR, MARKETING** Christina Schlecht; **MARKETING ASSOCIATES** Paulina Curto, Mitchell Edmund; **ELECTRONIC MEDIA DIRECTOR** Lizbeth Harman; **ASSISTANT MANAGER** Lisa Stanford; **PRODUCTION SPECIALISTS** Antoinette Hodal, Nichele Johnston, Lori Murphy, Kimberly Oster; **WEB AND NEW MEDIA:** SENIOR PROJECT MANAGER Trista Smith, PROJECT LEADER Luke Johnson **COMPUTER SPECIALISTS** Walter Jones, Kai Zhang, WEB DEVELOPER Chris Coleman; **PROGRAM DIRECTOR, AAAS MEMBER CENTRAL** Peggy Mihelich

**DIRECTOR, GLOBAL COLLABORATION, CUSTOM PUBLICATIONS, ADVERTISING** Bill Moran

**EDITOR, CUSTOM PUBLISHING** Sean Sanders: 202-326-6430

**ASSISTANT EDITOR, CUSTOM PUBLISHING** Tianna Hicklin 202-326-6463

**SPONSORED CONTENT SPECIALIST** Candice Nulsen 202-256-1528

**ASSOCIATE DIRECTOR, COLLABORATION, CUSTOM PUBLICATIONS/CHINA/TAIWAN/KOREA/SINGAPORE** Ruolei Wu +86-1367-101-5294

**PRODUCT** (science\_advertising@aaas.org); **MIDWEST** Rick Bongiovanni: 330-405-7080, FAX 330-405-7081; **EAST COAST/E. CANADA** Laurie Faraday: 508-747-9395, FAX 617-507-8189; **WEST COAST/W. CANADA** Lynne Stickrod: 415-931-9782, FAX 415-250-6940; **UK/EUROPE/ASIA** Roger Goncalves: TEL/FAX +41 43 243 1358; **JAPAN**, Makiko Hara: +81 (0) 3 6802 4616, FAX +81 (0) 3 6802 4615; ads@sciencemag.jp; **CHINA/TAIWAN** Ruolei Wu: +86 1367 1015 294 nw@aaas.org

**WORLDWIDE ASSOCIATE DIRECTOR OF SCIENCE CAREERS** Tracy Holmes: +44 (0) 1223 326525, FAX +44 (0) 1223 326532

**CLASSIFIED** (advertise@sciencereaders.org); **U.S./CANADA/SOUTH AMERICA** Tina Burks: 202-326-6577; **U.S. CORPORATE** Candice Nulsen 202-256-1528;

**SALES ADMINISTRATOR** Marci Gallun; **EUROPE/ROW SALES** Axel Gesatzki, Sarah Lelarge; **SALES ASSISTANT** Kelly Grace; **JAPAN** Yuri Kobayashi +81 (0)90-9110-1719; careers@sciencemag.jp; **CHINA/TAIWAN** Ruolei Wu: +86 1367 1015 294 nw@aaas.org; **ADVERTISING SUPPORT MANAGER** Karen Fote: 202-326-6740; **ADVERTISING PRODUCTION OPERATIONS MANAGER** Deborah Tompkins; **SENIOR PRODUCTION SPECIALIST/GRAPHIC DESIGNER** Amy Hardcastle; **PRODUCTION SPECIALIST** Yusei Lajjimmuhip; **SENIOR TRAFFIC ASSOCIATE** Christine Hall; **SALES COORDINATOR** Shirley Jung; **MARKETING MANAGER** Allison Pritchard; **MARKETING ASSOCIATE** Aimee Aponte

**AAAS BOARD OF DIRECTORS** RETIRING PRESIDENT, CHAIR William H. Press; PRESIDENT Phillip A. Sharp; PRESIDENT-ELECT Gerald R. Fink; TREASURER David Evans Shaw; CHIEF EXECUTIVE OFFICER Alan I. Leshner; BOARD Bonnie L. Bassler, May R. Berenbaum, Claire M. Fraser, Elizabeth Loftus, Stephen L. Mayo, Raymond Orbach, Sue V. Rosser, Inder M. Verma



**SENIOR EDITORIAL BOARD**

A. Paul Alivisatos, Lawrence Berkeley Nat'l. Laboratory  
 Ernst Fehr, Univ. of Zurich  
 Michael S. Turner, University of Chicago

**BOARD OF REVIEWING EDITORS**

Adriano Aguzzi, Univ. Hospital Zürich  
 Takuzo Aida, Univ. of Tokyo  
 Leslie Aiello, Werner-Gren Foundation  
 Sonia Altizer, Univ. of Georgia  
 Virginia Armbrust, Univ. of Washington  
 Sebastian Amigorena, Institut Curie  
 Kathryn Anderson, Memorial Sloan-Kettering Cancer Center  
 Siv G. E. Andersson, Uppsala Univ.  
 Peter Andolfatto, Princeton Univ.  
 Meinrat O. Andreae, Max Planck Inst., Mainz  
 Paola Arlotto, Harvard Univ.  
 Johan Auwerx, EPFL  
 David Auschalom, Univ. of California Santa Barbara  
 Ben Barres, Stanford Medical School  
 Jordi Bascompte, Estación Biológica de Doñana, CSIC  
 Facundo Batista, London Research Inst.  
 Ray H. Baughman, Univ. of Texas, Dallas  
 David Baum, Univ. of Wisconsin  
 Mark Bear, Massachusetts Inst. of Technology  
 Yasmine Belkaid, NIAID, NIH  
 Philip Benfey, Duke Univ.  
 Stephen J. Benkovic, Penn State Univ.  
 Christophe Bernard, Aix-Marseille Univ.  
 Gregory C. Berzosa, Stanford Univ.  
 Gabriele Bergers, Univ. of California, San Francisco  
 Peer Bork, EMBL  
 Bernard Bourdon, Ecole Normale Supérieure de Lyon  
 Chris Bowler, Ecole Normale Supérieure  
 Ian Boyd, Univ. of St. Andrews  
 Christian Büchel, Universitätsklinikum Hamburg-Eppendorf  
 Joseph A. Burns, Cornell Univ.  
 William P. Butz, Population Reference Bureau  
 Gory Buzsáki, New York Univ., School of Medicine  
 Mats Carlsson, Univ. of Oslo  
 David Clapham, Children's Hospital, Boston  
 David Clary, Univ. of Oxford  
 Jonathan D. Cohen, Princeton Univ.  
 Robert Cook-Deegan, Duke Univ.  
 James Collins, Boston Univ.  
 Alan Cowman, Walter & Eliza Hall Inst.  
 Robert H. Crabtree, Yale Univ.  
 Wolfgang Crames, Mediterranean Inst. of Biodiversity and Ecology  
 Janet Currie, Princeton Univ.  
 Jeff L. Dangl, Univ. of North Carolina  
 Tom Daniel, Univ. of Washington  
 Frans de Waal, Emory Univ.  
 Stanislas Dehaene, Collège de France  
 Robert Desimone, MIT

Claude Desplan, New York Univ.  
 Ap Dijksterhuis, Radboud Univ. of Nijmegen  
 Dennis Discher, Univ. of Pennsylvania  
 Gerald W. Dorn II, Washington Univ. School of Medicine  
 Jennifer A. Doudna, Univ. of California, Berkeley  
 Bruce Dunn, Univ. of California, Los Angeles  
 Christopher Dye, WHO  
 Todd Ehlers, University of Tuebingen  
 David Ehrhardt, Carnegie Inst. of Washington  
 Tim Elston, Univ. of North Carolina at Chapel Hill  
 Sören Ertl, Fritz-Haber-Institut, Berlin  
 Barry Everitt, Univ. of Cambridge  
 Paul G. Falkowski, Rutgers Univ.  
 Ernst Fehr, Univ. of Zurich  
 Tom Fenchel, Univ. of Copenhagen  
 Michael Feuer, The George Washington Univ.  
 Alain Fischer, INSERM  
 Susan Fiske, Princeton Univ.  
 Anne C. Ferguson-Smith, Univ. of Cambridge  
 Peter Fratzl, Max Planck Inst.  
 Elaine Fuchs, Rockefeller Univ.  
 Wulfram Gerstner, EPFL Lausanne  
 Daniel Geschwind, UCLA  
 Andrew Gewirth, Univ. of Illinois  
 Karl-Heinz Glassmeier, TU Braunschweig  
 Isaac Held, NOAA  
 Elizabeth Grove, Univ. of Chicago  
 Kip Guy, St. Jude's Children's Research Hospital  
 Taekjip Ha, Univ. of Illinois at Urbana-Champaign  
 Christian Haass, Ludwig Maximilians Univ.  
 Steven Hahn, Fred Hutchinson Cancer Research Center  
 Gregory J. Hannon, Cold Spring Harbor Lab.  
 Martin Heimann, Max Planck Inst., Jena  
 Yka Helariutta, Univ. of Finland  
 Isaac Held, NOAA  
 James A. Hendler, Rensselaer Polytechnic Inst.  
 Janet G. Hering, Swiss Fed. Inst. of Aquatic Science & Technology  
 Ray Hilborn, Univ. of Washington  
 Michael E. Himmel, National Renewable Energy Lab.  
 Kai-Uwe Hinrichs, Univ. of Bremen  
 Kei Hirose, Tokyo Inst. of Technology  
 David Hodell, Univ. of Cambridge  
 Jochen Holden, Imperial College  
 Lara Hooper, UT Southwestern Medical Ctr at Dallas  
 Jeffrey A. Hubbell, EPFL Lausanne  
 Thomas Hudson, Ontario Inst. for Cancer Research  
 Raymond Huey, Univ. of Washington  
 Steven Jacobson, Univ. of California, Los Angeles  
 Kai Johnsson, EPFL Lausanne  
 Peter Jonas, Inst. of Science & Technology (IST) Austria  
 Matt Kaebertine, Univ. of Washington  
 William Kaelin Jr., Dana-Farber Cancer Inst.  
 Daniel Karp, Harvard Univ.  
 Daniel Kammen, Univ. of California, Berkeley

Joel Kingsolver, Univ. of North Carolina at Chapel Hill  
 Robert Kingston, Harvard Medical School  
 Roberto Kolter, Harvard Medical School  
 Alberto R. Kornblihtt, Univ. of Buenos Aires  
 Leonid Kruglyak, Princeton Univ.  
 Thomas Langer, Univ. of Cologne  
 Mitchell A. Lazar, Univ. of Pennsylvania  
 Christopher Laver, Harvard Univ.  
 Virginia Lee, Univ. of Pennsylvania  
 Stanley Lemon, Univ. of North Carolina at Chapel Hill  
 Ottoline Leyser, Cambridge Univ.  
 Marcia C. Linn, Univ. of California, Berkeley  
 Jianshu Liu, Michigan State Univ.  
 Luis Liz-Marzan, CIC bioGUNE  
 Jonathan Losos, Harvard Univ.  
 Ke Lu, Chinese Acad. of Sciences  
 Christian Lüscher, Univ. of Geneva  
 Laura Machesky, CRUK Beatson Inst. for Cancer Research  
 Anne Magurran, Univ. of St. Andrews  
 Oscar Marin, CSIC & Univ. Miguel Hernández  
 Charles Marshall, Univ. of California, Berkeley  
 Chris Marshall, Inst. of Cancer Research  
 Martin M. Matzuk, Baylor College of Medicine  
 C. Robertson McClung, Dartmouth College  
 Graham Medley, Univ. of Warwick  
 John J. Mekalanos, Harvard Univ.  
 Richard Morris, Univ. of Edinburgh  
 Edward Moser, Norwegian Univ. of Science and Technology  
 Sean Murray, MRC Lab. of Molecular Biology  
 Thomas Murray, The Hastings Center  
 Naoto Nagaosa, Univ. of Tokyo  
 James Nelson, Stanford Univ. School of Med.  
 Daniel Neumark, Univ. of California, Berkeley  
 Stuart Newman, New York Medical College  
 Timothy W. Nilsen, Case Western Reserve Univ.  
 Per Nordlund, Karolinska Inst.  
 Helga Nowotny, European Research Advisory Board  
 Luke O'Neill, Trinity College, Dublin  
 Ben Olsen, MIT  
 Michael J. Omernik, Princeton Univ.  
 Joe Orenstein, Univ. of California, Berkeley & Lawrence Berkeley National Lab  
 Harry Orr, Univ. of Minnesota  
 Andrew Oswald, Univ. of Warwick  
 Steve Palumbi, Stanford Univ.  
 Donald R. Paul, Univ. of Texas at Austin  
 David Pearson, Univ. of California, Berkeley  
 John J. Petri, Memorial Sloan-Kettering Cancer Center  
 Simon Phillipot, Univ. of Florida  
 Joshua Plotkin, Univ. of Pennsylvania  
 Philippe Poulin, CNRS  
 Colin Renfrew, Univ. of Cambridge  
 Trevor Robbins, Univ. of Cambridge  
 Jim Roberts, Fred Hutchinson Cancer Research Ctr.

Barbara A. Romanowicz, Univ. of California, Berkeley  
 Jens Rostrup-Nielsen, Haldor Topsøe  
 Mike Ryan, Univ. of Texas, Austin  
 Shimon Sakaguchi, Kyoto Univ.  
 Miquel Salmeron, Lawrence Berkeley National Lab  
 Jürgen Sandkühner, Medical Univ. of Vienna  
 Alexander Schier, Harvard Univ.  
 Randy Seeley, Univ. of Cincinnati  
 Vladimir Shalaya, Purdue Univ.  
 Joseph Silk, Institut d'Astrophysique de Paris  
 Denis Simonsen, Harvard Univ.  
 Alison Smith, John Innes Centre  
 Peter Sorger, Harvard Medical School  
 John Speakman, Univ. of Aberdeen  
 Allan C. Spradling, Carnegie Institution of Washington  
 Jonathan Sprent, Garvan Inst. of Medical Research  
 Eric Steig, Univ. of Washington  
 Molly Stevens, Imperial College London  
 Paula Stephan, Georgia State Univ. and National Bureau of Economic Research  
 Elsbeth Steiner, ETH Zürich  
 V. S. Subrahmanian, Univ. of Maryland  
 Ira Tabas, Columbia Univ.  
 Yoshiko Takahashi, Kyoto University  
 Sarah Teichmann, Cambridge Univ.  
 Thomas Thomsen, North Carolina State Univ.  
 Christopher Tyler-Smith, The Wellcome Trust Sanger Inst.  
 Herbert Virgin, Washington Univ.  
 Bert Vogelstein, Johns Hopkins Univ.  
 Cynthia Volkert, Univ. of Göttingen  
 Bruce D. Walker, Harvard Medical School  
 Douglas Wallace, Dalhousie Univ.  
 Ian Walmsley, Univ. of Oxford  
 David A. Wardle, Swedish Inst. of Agric Sciences  
 David Waxman, Fudan Univ.  
 Jonathan Weisman, Univ. of California, San Francisco  
 Kathy Willis, Oxford Univ.  
 Ian A. Wilson, The Scripps Res. Inst.  
 Timothy D. Wilson, Univ. of Virginia  
 Rosemary Wyse, Johns Hopkins Univ.  
 Jan Zaenen, Leiden Univ.  
 Kenneth Zaret, Univ. of Penn. School of Medicine  
 Jonathan Zehr, Univ. of California, Santa Cruz  
 Len Zou, Children's Hospital Boston  
 Maria Zuber, MIT

**BOOK REVIEW BOARD**

John Aldrich, Duke Univ.  
 David Bloom, Harvard Univ.  
 Angela Creager, Princeton Univ.  
 Richard Swedner, Univ. of Chicago  
 Ed Wasserman, DuPont  
 Lewis Wolpert, Univ. College London