NEWS & COMMENT

R&D Budget: Growth in Hard Times 744

Foundations: Hughes to Add 49 New Investigators 746

National Science Foundation: Researchers Sue to Get Reviewer Names 747

Academy Warns Against Slipping Ethics 747

Genetic Engineering: Safety Concerns Halt U.K. Study 748

National Labs Under Review, Again 748

SSC Aftermath: Physicists Struggle for Consensus About the Future The Message From CERN: Help Wanted 749

Chernobyl Explosion: Inside Look Confirms More Radiation 750

Gloomy Picture for Photo Astronomers 750

Methane Increase Put on Pause 751

Science Policy: U.S. Research Forum Fails to Find a Common Front 752

RESEARCH NEWS

Cell Suicide: By ICE, Not Fire 754

Solar Physicists Peer Into a Mysterious Furnace Another Way to Light a Fire 756

Evolutionary Biology: Will Molecular Data Set the Stage for a Synthesis? 758

A New Portrait of Venus: Thick-Skinned and Decrepit Why So Dry, Venus? 759

PERSPECTIVE

Protein-DNA Recognition: New Perspectives and Underlying Themes P. H. von Hippel 769

ARTICLE

Population Policy Options in the Developing World J. Bongaarts 771

RESEARCH ARTICLE

Coupling of Local Folding to Site-Specific Binding of Proteins to DNA R. S. Spolar and M. T. Record Jr. 777

793
Holding together

744
R&D and the budget squeeze
Gene expression in living cells is often difficult to detect because of limited access of substrates to marker enzymes. Here gene expression in specific neurons of the nematode Caenorhabditis elegans is monitored by the bright green fluorescence of the green fluorescent protein (GFP) from the jellyfish Aequorea victoria. The GFP fills entire neurons, including in one neuron an extended, fanned growth cone visible in the tail end (upper portion) of the nematode. See page 802. [Photo: Martin Chalfie]

SCIENCE (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H St. NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1994 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription ($1 issues): $92 ($50 allocated to subscription). Domestic institutional subscription ($1 issues): $215. Foreign postage extra: Mexico, Caribbean (surface mail) $50; other countries (air assist-delivery) $95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #125498122.

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