NEWS & COMMENT

French Gene Mappers at Crossroads
Dispute Over Company Link Rolls CEPH
Génethon: An Industrial Approach to Isolating Genes

Nicotine Scrutinized as FDA Seeks to Regulate Cigarettes

Professor Slams MIT Over Center Closure

India Expands Electronic Research Network
The First Steps Toward a Virtual Library

Public Health Agency Shakeup Opposed

RESEARCH NEWS

Stalking the Start of Colon Cancer

Fire Ants Parlay Their Queens Into a Threat to Biodiversity

Did Pinatubo Send Climate-Warming Gases Into a Dither?

Molecule Makers Learn the Rules of a Crooked Game
The Calculated Approach to Protein Folding
‘Long PCR’ Leaps Into Larger DNA Sequences

PERSPECTIVES

Spatiotemporal Chaos
M. C. Cross and P. C. Hohenberg

Time Is the Essence: Molecular Analysis of the Biological Clock
T. L. Page

ARTICLE

Why Snakes Have Forked Tongues
K. Schwenk

RESEARCH ARTICLE

Negative Feedback Defining a Circadian Clock: Autoregulation of the Clock Gene frequency
B. D. Aronson, K. A. Johnson, J. J. Loruso, J. C. Dunlap

DEPARTMENTS

THIS WEEK IN SCIENCE

EDITORIAL
Need for Enhanced Nuclear Safeguards

LETTERS
Reacting to Gasoline Additives: J. P. Middaugh
Is Dioxin a Human Carcinogen? (Continued):
S. S. Sternberg • Cell Transplantation and Research Design: D. L. Felten

SCIENCESCOPE

RANDOM SAMPLES

New CF Drug Goes Pro Bono • Journal Quails Over Oiled Turtles • A Lunar Idea • First Satellite of an Asteroid Discovered • Lefty Longevity: Another Study • Soviet-Style Conundrums for U.S. Youth • U.K. Research Council Gets Oxford Head

BOOK REVIEWS

Center on the Periphery, reviewed by F. Ascher • The Neuroscience of Animal Intelligence, M. E. Bitterman • The Desert's Past, D. P. Adams • Vignettes • Books Received

PRODUCTS & MATERIALS

1562 & 1587
A puzzling trend in atmospheric chemistry

1569
Chaos in space and time

Board of Reviewing Editors

John Abelson
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Piet Borst
Michael S. Brown
Henry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
Paul J. Crutzen
Robert De Simone
Nicole Le Douarin
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
Klaus Friedrich
Theodore H. Gabalie
Margaret J. Geller
John C. Gerhart
Roger L. M. Glass
Stephen P. Gold
Peter N. Goodfellow
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosakyn
Michael LaBarbera
Charles S. Levinson
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakanishi
Roger A. Nicol
William H. Orme-Johnson III
Stuart L. Pimm
Yehshayu Pockar
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Rice
Ekkio Ruoslahti
David C. Rubie
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terrence J. Segovski
Ellen Solomon
Thomas A. Steitz
Michael P. Streyker
Richard F. Thompson
Robert T. N. Tian
Emil R. Unanue
Gereat J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
Willam A. Wulf
Keith Yamamoto

1541

1543

1545

1546

1633

1638

1561

1562

1563

1564

1569

1570

1573

1578
The circadian rhythm in asexual reproduction in the bread mold Neurospora crassa is illustrated by alternating growth rings of surface mycelia (red) and aerial hyphae (blue and yellow). Aerial hyphae extend above the growth surface to produce asexual spores. Studies of this rhythm have authenticated an initial gear in a circadian clock and suggest the algorithm by which such clocks may be assembled. See page 1578, related Reports on pages 1603 and 1608 and Perspective on page 1570. [Image: Reed Detar. Colorization: Jay C. Dunlap]
Editor's Summary