NEWS

Breast Cancer Gene Offers Surprises 1796
The Hottest Race in Cancer Genetics 1797
On the Trail of a Second Susceptibility Gene 1798

Boron Therapy Gets Early Test 1799
Old Protein Provides New Clue to Nerve Regeneration Puzzle 1800

Space Science: In Budget Crunch, FUSE Gets Trimmed 1801

It's Official: Quake Danger in Northwest Rivals California's 1802

Cuban Crisis Threatens Joint Research 1803
Plant Genetics: Mapping the Sequence of Disease Resistance 1804

PERSPECTIVES

Energetic Molecular Oxygen in the Atmosphere 1817
T. G. Slangen

DEPARTMENTS

THIS WEEK IN SCIENCE 1785
EDITORIAL 1787
LETTERS 1789

BOOK REVIEWS 1899

DEPARTMENTS

AMERICAN
ASSOCIATION FOR THE
ADVANCEMENT OF
SCIENCE

Odors, Oscillations, and Waves: Does It All Compute?
D. W. Tank, A. Gelperin, D. Kleinfield

ARTICLES

Negative Absolute Temperatures: "Hot" Spins in Spontaneous Magnetic Order
P. Hakonen and O. V. Lounasmaa

The Basal Ganglia and Adaptive Motor
A. M. Graybiel, T. Aosaki, A. W. Flaherty, M. Kimura

RESEARCH ARTICLE

The "Ozone Deficit" Problem: \( O_2(x, v \geq 26) + O(^3P) \) from 226-nm Ozone Photodissociation

REPORTS

Vertical Aluminophosphate Molecular Sieve Crystals Grown at Inorganic-Organic Interfaces
S. Feng and T. Bein

PRODUCTS & MATERIALS 1903

1804 & 1856
How plants fight disease

1846
Meteoritic metals in cooled chondrites

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Peter Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
Paul J. Crutzen
James E. Dahlberg
Robert Desimone
Bruce F. Edridge
Paul T. Englund
Richard G. Farber
Douglas T. Fearon
Harry A. Fozzard
Klaus Friedrich
Theodore H. Geballe
John C. Gerhart
Roger I. M. Glass
Stephen P. Gold
Peter N. Goodfellow
Corey S. Goodman
Ira Herskowitz
Eric F. Johnson
Stephen M. Kozlosyn
Nicole LaBarbera
Nicole Le Douarin
Charles S. Levinghs
Alexander Levitiki
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakashima
Roger A. Nicoll
Stuart L. Pimm
Yeshayahu Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Rees
T. M. Rice
David C. Rube
Erkki Ruosluhhti
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terence J. Segovianski
Ellen Solomon
Thomas A. Steitz
Michael P. Styer
Robert T. N. Tjian
Emil R. Unanue
Geeral J. Vermeij
Bert Vogtsemen
Harold Weinstaurb
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
This issue of Science examines how researchers overcome the challenges they meet along their career paths. Though presented in this image as a game, meeting those challenges—going from a postdoctoral to a permanent position, for instance, or running a productive laboratory—is a serious measure of success in the scientific life. See the News section, "Science Careers: Playing to Win," beginning on page 1905. [Illustration: Linda C. Owens]