Clinton Holds the Line on R&D
Priority Initiatives Squeeze Science
A Strategy for Sequencing the Genome
5 Years Early
Science Editor-in-Chief Named
Blending Biology, Technology, and Economic Development
DOE Reacts Coolly to Galvin Report
But Favors Downsizing

RESEARCH NEWS
Found: Candidate for Missing Mass?
Bisexual Fruit Flies Point to Brain Courtship Centers
Galaxy Experts Train Electronic Stand-Ins
Protein Studies Try to Puzzle Out Alzheimer's Tangles
At Math Meetings, Enormous Theorem Eclipses Fermat

PERSPECTIVES
Superpositions of Handed Wave Functions
J. A. Cima and R. A. Harris
Casein Kinase II in Theileriosis
O. K. ole-MoiYoi

ARTICLES
Mantle Convection with Plates and Mobile, Faulted Plate Margins
S. Zhong and M. Gurnis
Gauging Similarity with n-Grams:
Language-Independent Sorting, Categorization, and Retrieval of Text
M. Damashek

REPORTS
Interhemispheric Differences in Polar Stratospheric HNO3, H2O, CIO, and O3

DEPARTMENTS
THIS WEEK IN SCIENCE
EDITORIAL
Letters
SCIENCESCOPE
Timing of Hot Spot–Related Volcanism and the Breakup of Madagascar and India
M. Storey, J. J. Mahoney, A. D. Saunders, R. A. Duncan, S. P. Kelley, M. F. Coffin

Forearc Deformation and Great Subduction Earthquakes: Implications for Cascadia Offshore
Earthquake Potential
R. McCaffrey and C. Goldfinger

Galaxies, Human Eyes, and Artificial Neural Networks

Temperature Dependence of the Superconducting Gap Anisotropy in Bi2Sr2CaCu2O8+
J. Ma, C. Quitmann, R. J. Kelley, H. Berger, G. Margaritondo, M. Onellion

A Neutral Templating Route to Mesoporous Molecular Sieves
P. T. Nanev and T. J. Pinnavaia

Navigating Complex Labyrinths: Optimal Paths from Chemical Waves
O. Steinbock, Á. Tóth, K. Showalter

Electrochemical Detection of Single Molecules
F.-R. F. Fan and A. J. Bard

High Sex Ratios in China’s Future
S. Tuljapurkar, N. Li, M. W. Feldman

Shifting Dominance Within a Montane Vegetation Community: Results of a Climate-Warming Experiment
J. Harte and R. Shaw

Effects of Competition, Colonization, and Extinction on Rodent Species Diversity
T. J. Valone and J. H. Brown

Synergistic Roles for Receptor Occupancy and Aggregation in Integrin Transmembrane Function
S. Miyamoto, S. K. Akiyama, K. M. Yamada

Biotherapy of B-Cell Precursor Leukemia by Targeting Genistein to CD19-Associated Tyrosine Kinases

Suppression of ICE and Apoptosis in Mammary Epithelial Cells by Extracellular Matrix N. Boudreau, C. J. Sympson, Z. Werb, M. J. Bissell

Casein Kinase IIc Transgene-Induced Murine Lymphoma: Relation to Theileriosis in Cattle
D. C. Seldin and P. Leder

Selfish Behavior of Restriction-Modification Systems
T. Naito, K. Kusano, I. Kobayashi

Modulation of Chemotropism in the Developing Spinal Cord by Substance P
C. De Felipe, R. D. Pinnock, S. P. Hunt

Genetic Feminization of Brain Structures and Changed Sexual Orientation in Male Drosophila
J.-F. Ferveur, K. F. Störrkuhl, R. F. Stocker, R. J. Greenspan

Cover
The SEST submillimeter radio telescope at the European Southern Observatory in Chile reflects the promise of science in Latin America as democracy and economic stability take hold. Chile’s astronomers are doing competitive research on SEST and other instruments built by European and North American institutions, and they plan to expand their activities. Elsewhere in the region, other scientific communities have started with fewer advantages but are creating equally bright spots of achievement, as discussed on page 807 in a special section on Science in Latin America. [Photo: Roger Reemsray-Starlight]