POLICY FORUM
Science and the New Administration
J. M. Bishop, M. Kirschner, H. Varmus

NEWS & COMMENT
A Grisly Archive of Key Cancer Data
Widespread Contamination, Widespread Risk

Radiation Risks: Researchers Eager to See Soviet Data
Should Dying Patients Receive Untested Genetic Methods?

Will the Real Journal Please Stand Up?

RESEARCH NEWS
A Continent-Sized Ear on the Cosmos
MERLIN Gets the Hubble Constant in Focus
Computing at the Speed of Light

Alzheimer’s Pathology Begins to Yield Its Secrets

Astronomers Meet in Phoenix, Recount a Stellar Year

CATALYTIC ANTIBODIES AND DISFAVORED REACTIONS
S. Danishefsky

The Polar Coordinate Model Goes Molecular
P. J. Bryant

Gravity Field over Northern Eurasia and Variations in the Strength of the Upper Mantle
M. G. Kogan and K. McNutt

Beyond Nature’s Chiral Pool: Enantioselective Catalysis in Industry
W. A. Nugent, T. V. Rajan-Babu, M. J. Burk

RESEARCH ARTICLE
A Wingless-Dependent Polar Coordinate
System in Drosophila Imaginal Discs
J. P. Couso, M. Bate, A. Martinez-Arias

DEPARTMENTS
THIS WEEK IN SCIENCE
EDITORIAL
President Clinton’s Science Adviser

LETTERS

SCIENCESCOPE

RANDOM SAMPLES
Father of Gordon Conferences to Retire • Low-Lipid Blues • Shrike Shortage • Canada: Who Needs a Scientist as Chief? • Biotech Groups Merge • NSF Joins Station Wagon Set • Japanese Scientists Predict the Future • Japan Prizes Announced

BOOK REVIEWS
The Maxwellians, reviewed by C. W. F. Everitt • Genias, P. W. Anderson • AIDS and Accusation, R. M. Packard • Vignettes: Calling for Callers • Books Received

PRODUCTS & MATERIALS

AAAS Board of Directors

Board of Reviewing Editors

Leon M. Lederman
Retiring President,
Chairman
F. Sherwood Rowland
President
Eliose C. Clark
President-elect
Mary Ellen Avery
Francisco J. Ayala
Robert A. Frosch
Florence P. Haseltine
Alan Schrieves
Jeanne M. Shreeve
Chang-Lin Tien
Warren M. Washington
William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Phyllis E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Richard G. Farberks
Douglas T. Fearon
Harry A. Fozzard
Keith R. Fuchs
Theodore H. Geballe
Margaret J. Gelfter
John C. Gerhart
Roger I. M. Glass

Stephen P. Goff
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kozlosyn
Michael LaBarbera
Charles S. Lovings III
Harvey F. Lodish
Richard Losick
Anthony R. Means

Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramasathan
Douglas G. Reece
Erikki Ruoslahi
Ronald H. Schwartz

Terrence J. Sejnowski
Thomas A. Sleize
Richard F. Thompson
Robert T. N. Tian
Emil R. Unanue
Gereat J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werth
George M. Whitesides
Owen N. Witte
Keith Yamamoto
Leg imaginal disc from a *Drosophila* early third instar larva, stained to show the sectorial pattern of expression of the wingless (blue) and engrailed (brown) genes. During limb development, these genes are expressed in adjacent sectors of the imaginal discs.

These sectors provide positional references for a polar coordinate system that functions in the generation of patterns along the proximodistal axis. See page 484 and the Perspective on page 471. [Photograph: J. P. Couso]

**REPORTS**

- **Antibody Catalysis of a Disfavored** 490
- **Chemical Transformation** 490
- **Transient Turing Structures in a Gradient-Free Closed System** 493
- **A Cationic Cesium Continuum in Zeolite X** 495
- **Late Cenozoic Uplift of Denali and Its Relation to Relative Plate Motion and Fault Morphology** 499
- **Seismic Structure of the Southern East Pacific Rise** 503
- **Biodegradation in Hudson River Sediments** 508
- **Stress Protection of Transgenic Tobacco** 510
- **Altered Specificity of DNA-Binding Proteins with Transition Metal Dimerization Domains** 510
- **Release of Excess Amyloid β Protein from a Mutant Amyloid β Protein Precursor** 513

**TECHNICAL COMMENTS**

- **Polyethylene Bags and Solar Ultraviolet Radiation** 534
- **O. Holm-Hansen and E. W. Helbling; B. B. Préal and R. C. Smith**

**COVER**

**Sequence and Genome Organization of a Human Small Round-Structured (Norwalk-Like) Virus** 516
- P. R. Lambden, E. O. Caull, C. R. Ashley, I. N. Clarke

**Activation of the Sphingomyelin Signaling Pathway in Intact EL4 Cells and in a Cell-Free System by IL-1β** 519

**Regulation by Heme of Mitochondrial Protein Transport Through a Conserved Amino Acid Motif** 522
- J. T. Lathrop and M. P. Timko

**Identification of the SH3 Domain of GAP as an Essential Sequence for Ras-GAP-Mediated Signaling** 525
- M. Duchesne, F. Schweighoffer, F. Parker, F. Clerc, Y. Frobert, M. N. Thang, B. Tocqué

**Modulation of Anxiety and Neuropeptide Y1 Receptors by Antisense Oligodeoxynucleotides** 528
- C. Wahledstedt, E. M. Pich, G. F. Koob, F. Yee, M. Heilig

**GABA-Activated Chloride Channels in Secretory Nerve Endings** 531
- S. J. Zhang and M. B. Jackson

**Cesium molecular sieves**

496