



1883 Environment & Economics

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1918 Handy carbon chemistry

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- The High Cost of Biodiversity 1868

- Funding Priorities: Academy Recommends 1871
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- Scripps Backs Down on Controversial 1872
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- Clinton Backs SSC, Space Station 1873

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- Physicists Explore the Driplines 1874

- Neuroscience: Making Modular 1876
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- Novel Anticancer Agents Move 1877
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- Astronomers Watch the Stars Come 1878
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POLICY FORUMS

- A Second Environmental Science: 1897
Human-Environment Interactions

P. C. Stern

- Biodiversity and Biotechnology 1900
D. L. Burk, K. Barovsky, G. H. Monroy

PERSPECTIVES

- Chaperones: Helpers Along the Pathways 1902
to Protein Folding

E. A. Craig

- How Molecular Chaperones Work 1903
D. A. Agard

ARTICLE

- Tropical Deforestation and Habitat 1905
Fragmentation in the Amazon: Satellite Data
from 1978 to 1988

D. Skole and C. Tucker

RESEARCH ARTICLE

- Arrestin Function in Inactivation of G 1910
Protein-Coupled Receptor Rhodopsin in Vivo
P. J. Dolph, R. Ranganathan, N. J. Colley,
R. W. Hardy, M. Socolich, C. S. Zuker

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D. M. Kammen and R. Wilson

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BOOK REVIEWS

1983

Biology and Conservation of the Monarch Butterfly,
reviewed by A. Shapiro • *Astrocytes*, G. G. Somjen
• *Fundamentals of Crystallography*, W. Bassett •
Quantum Field Theory, P. Ramond • Vignette

PRODUCTS & MATERIALS

1988

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
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John M. Coffin
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Robert Desimone
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Roger I. M. Glass
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Peter N. Goodfellow
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Stephen J. Gould
Ira Herskowitz

Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Charles S. Levings III
John C. Gerhart
Harvey F. Lodish
Richard Losick
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Anthony R. Means
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Roger A. Nicoll

William H. Orme-
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Stuart L. Pimm
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V. Ramanathan
Douglas C. Rees
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David C. Rubie

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Jozef Schell
Ronald H. Schwartz
Terrence J. Sejnowski
Ellen Solomon
Thomas A. Steitz
Michael P. Stryker
Richard F. Thompson
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij

Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto

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COVER

Six-week-old spotted hyena. The provision of circulating androgens to both male and female spotted hyenas in utero may account for the masculinized genitalia of

the females of this species and may potentially facilitate the intense aggression between littermates that occurs at birth. See page 1929. [Photo: R. DeFrancesco]



REPORTS

- Crystal Structure of a Silyl Cation with No Coordination to Anion and Distant Coordination to Solvent 1917
J. B. Lambert, S. Zhang, C. L. Stern, J. C. Huffman
- Optically Active Carbon: Kinetic Resolution of C₇₆ by Asymmetric Osmylation 1918
J. M. Hawkins and A. Meyer
- Evidence from Western North America for Rapid Shifts in Climate During the Last Glacial Maximum 1920
B. D. Allen and R. Y. Anderson
- Spatiotemporal Patterns in the Energy Release of Great Earthquakes 1923
B. Romanowicz
- Arabidopsis thaliana* DNA Methylation Mutants 1926
A. Vongs, T. Kakutani, R. A. Martienssen, E. J. Richards
- A Mechanism for Virilization of Female Spotted Hyenas in Utero 1929
T. M. Yalcinkaya, P. K. Siiteri, J.-L. Vigne, P. Licht, S. Pavgi, L. G. Frank, S. E. Glickman
- The Role of T_H1 and T_H2 Cells in a Rodent Malaria Infection 1931
A. W. Taylor-Robinson, R. S. Phillips, A. Severn, S. Moncada, F. Y. Liew
- Selective Inhibition of ras-Dependent Transformation by a Farnesyltransferase Inhibitor 1934
N. E. Kohl, S. D. Mosser, S. J. deSolms, E. A. Giuliani, D. L. Pompliano, S. L. Graham, R. L. Smith, E. M. Scolnick, A. Oliff, J. B. Gibbs
- Benzodiazepine Peptidomimetics: Potent Inhibitors of Ras Farnesylation in Animal Cells 1937
G. L. James, J. L. Goldstein, M. S. Brown,

- T. E. Rawson, T. C. Somers, R. S. McDowell, C. W. Crowley, B. K. Lucas, A. D. Levinson, J. C. Marsters, Jr.

- Induction of Type I Diabetes by Interferon- α in Transgenic Mice 1942
T. A. Stewart, B. Hultgren, X. Huang, S. Pitts-Meek, J. Hully, N. J. MacLachlan

- Nitric Oxide and Carbon Monoxide Produce Activity-Dependent Long-Term Synaptic Enhancement in Hippocampus 1946
M. Zhuo, S. A. Small, E. R. Kandel, R. D. Hawkins

- Binding of the Ras Activator Son of Sevenless to Insulin Receptor Substrate-1 Signaling Complexes 1950
K. Baltensperger, L. M. Kozma, A. D. Cherniack, J. K. Karlund, A. Chawla, U. Banerjee, M. P. Czech

- The Function of GRB2 in Linking the Insulin Receptor to Ras Signaling Pathways 1953
E. Y. Skolnik, A. Batzer, N. Li, C.-H. Lee, E. Lowenstein, M. Mohammadi, B. Margolis, J. Schlessinger

- Dissociation of Object and Spatial Processing Domains in Primate Prefrontal Cortex 1955
F. A. W. Wilson, S. P. Ó Scalaidhe, P. S. Goldman-Rakic

TECHNICAL COMMENTS

- Unusual Mutational Mechanisms and Evolution 1958
P. Rainey and R. Moxon; D. A. Watson; L. D. Hurst and A. Grafen; R. E. Lenski and J. E. Mittler

- Evidence of Genetic Heterogeneity in the Long QT Syndrome 1960
J. Benhorin, Y. M. Kalman, A. Medina, J. Towbin, N. Rave-Harel, T. D. Dyer, J. Blangero, J. W. MacCluer, B. sheva Kerem; M. Keating

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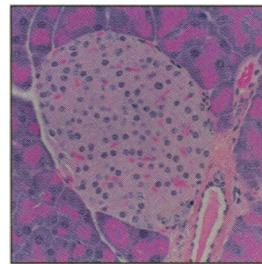
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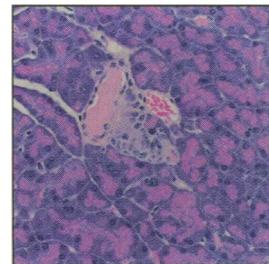
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1942

Pancreatic islet degeneration in mice transgenic for interferon- α



260 (5116)

Science 260 (5116), 1857-1988.

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