LETTERS
Emotions and Facial Expression: A. J. Frilund, A. N. Gilbert; C. E. Izard; A. N. Burdett; R. B. Zajonc

EDITORIAL
Air Pollution and Acid Rain

ARTICLES
Energy Extraction and Use in a Nomadic Pastoral Ecosystem: M. B. Coughenour et al
Perspective: Tumor Necrosis Factor (TNF): L. J. Old
Structure of the Human Interleukin-2 Receptor Gene: W. J. Leonard et al

NEWS AND COMMENT
Patent Dispute Divides AIDS Researchers
What's in a Name?
HTLV-III and LAV: Similar, or Identical?
Briefing: Reagan Reinterprets the ABM Treaty; Rumors of China-Iran Trade Cloud Nuke Pact; Surveillance Laws Need Overhaul; A Plan to Save Tropical Forests
Experts Cast Doubts on X-ray Laser

RESEARCH NEWS
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New Mysteries at the Galactic Center
Predictable Quake Damage

BOOK REVIEWS
Non-Proliferation and Safeguarding the Atom, reviewed by W. H. Donnelly; The Intellectual and Social Organization of the Sciences, R. L. Simpson; The Biology of Terrestrial Isopods, R. C. Brusca; Solar Maximum Analysis and Solar-Space Observations and Stellar Prospects, J. B. Zirker; Books Received

REPORTS
The Structure of the Core of the Spiral Wave in the Belousov-Zhabotinskii Reaction: S. C. Müller, T. Plessier, B. Hess
Intracellular Free Calcium Localization in Neutrophils During Phagocytosis: D. W. Sawyer, J. A. Sullivan, G. L. Mandell
High-Frequency Switching of Colony Morphology in Candida albicans: B. Sluts, J. Buffo, D. R. Soll
Psoriatic Fibroblasts Induce Hyperproliferation of Normal Keratinocytes in a Skin Equivalent Model in Vitro: P. Saiag, B. Coulomb, C. Lebreton, E. Bell, L. Dubbertret
Chromosomal Locations of Human Tissue Plasminogen Activator and Urokinase Genes: B. Rajput et al.
Phytochelatins: The Principal Heavy-Metal Complexing Peptides of Higher Plants: E. Grill, E.-L. Winnacker, M. H. Zenk
Wounding and Its Role in RSV-Mediated Tumor Formation: D. S. Dolberg, R. Hollingsworth, M. Hertle, M. J. Bissell
Iron(II) EDTA Used to Measure the Helical Twist Along Any DNA Molecule: T. D. Tullius and B. A. Dombroski
Hypoglycemia-Induced Neuronal Damage Prevented by an N-Methyl-D-Aspartate Antagonist: T. Wieloch

PRODUCTS AND MATERIALS
Cell Culture Labware; Immunoassay; Syringe Filters; Data Recorder; Research Immunoassays; Spectrometer; Literature

COVER Section (4.5 by 4.5 millimeters) of a spiral wave of chemical activity traveling through a 1-millimeter layer of quiescent, excitable Belousov-Zhabotinskii reagent catalyzed by ferroin. The concentration distribution of ferroin was measured by means of a two-dimensional spectrophotometer based on a video camera, a video frame buffer, and a computer. The core of the spiral—a singular site at which the ferroin concentration remains almost constant—is contained within the green circle. The colored curves are Archimedean spirals fitted to isointensity levels that correspond to the lowest (blue) and the highest (red) measured intensities and to the intensity at the core (yellow). See page 661. [S. C. Müller Max-Planck-Institut für Ernährungsphysiologie, D-4600 Dortmund, Federal Republic of Germany]