Most Cited Journal in Its Field; Now Semimonthly

*GENES & DEVELOPMENT* reports major advances of general interest and biological significance in molecular biology, molecular genetics, and related areas. The journal appears semimonthly and includes research papers and review articles.

**Volume 8, 1994, containing 24 semimonthly issues**
- Individual Price (U.S.) $115.00
- Individual Price (R.O.W. airlift delivery) $205.00
- Student Price (U.S.) $85.00*
- Student Price (R.O.W. airlift delivery) $165.00*
- Institutional Price (U.S.) $450
- Institutional Price (R.O.W. airlift delivery) $540

*Those who qualify must provide student I.D.

ISSN 0890-9369

Now Bimonthly

*PCR Methods and Applications* is devoted exclusively to amplification methods and their use. Its aim is to provide investigators in every discipline with a central source of reliable, independent, and up-to-date information about the principles and practice of amplification methods as well as their application.

**Volume 3, 1993/94, containing 6 bimonthly issues (beginning August 1993)**
- Individual Price (U.S.) $82.50
- Individual Price (R.O.W. surface delivery) $97.50
- Individual Price (R.O.W. airlift delivery) $127.50
- Institutional Price (U.S.) $255
- Institutional Price (R.O.W. surface delivery) $270
- Institutional Price (R.O.W. airlift delivery) $300

ISSN 1054-9803

A Co-publication

*Cancer Surveys: Advances and Prospects in Clinical, Epidemiological and Laboratory Oncology* is published for the Imperial Cancer Research Fund by Cold Spring Harbor Laboratory Press. It provides a comprehensive survey of the present state of, and future developments in, well-defined areas in oncology. Each issue deals with a specific topic and has guest editors with an expert knowledge of the subject.

**Topics to be covered in 1994 are:**
- Volume 19/20: Trends in Cancer Incidence and Mortality (double issue)
- Volume 21: Palliative Medicine

These issues can be ordered directly from Cold Spring Harbor Laboratory Press by subscription ($216, plus $25 airmail delivery) or individually ($72, plus $4.50 surface delivery or $12 airmail delivery).

ISSN 1050-849X

New Journal in 1994!

*Learning & Memory* will publish experimental studies in humans and animals on cognition, behavior, development, neuropsychology, neurophysiology, biochemistry, cell biology and genetics. This new journal will contain peer-reviewed research papers, commissioned reviews and commentaries, theories and models, and short communications and letters.

**Volume 1, 1994, containing 6 bimonthly issues**
- Individual Price (U.S.) $85
- Individual Price (R.O.W. surface delivery) $100
- Individual Price (R.O.W. airlift delivery) $130
- Institutional Price (U.S.) $190
- Institutional Price (R.O.W. surface delivery) $205
- Institutional Price (R.O.W. airlift delivery) $235

Subscribe Today!

Cold Spring Harbor Laboratory Press, 10 Skyline Drive, Plainview, N.Y. 11803-2500
Phone: 1-800-843-4388 or 516-349-1930 • FAX: 516-349-1946
# Contents

## Research papers

**The Aspergillus nidulans fluG gene is required for production of an extracellular developmental signal and is related to prokaryotic glutamine synthetase I**  
Bee Na Lee and Thomas H. Adams  
641

**Mitotic checkpoint genes in budding yeast and the dependence of mitosis on DNA replication and repair**  
Ted A. Weinert, Gretchen L. Kiser, and L.H. Hartwell  
652

**Differential disruption of genomic integrity and cell cycle regulation in normal human fibroblasts by the HPV oncoproteins**  
Alicia E. White, Elizabeth M. Livanos, and Thea D. Tlsty  
666

**The v-abl tyrosine kinase negatively regulates NF-κB/Rel factors and blocks κ gene transcription in pre-B lymphocytes**  
Christopher A. Klug, Sheila J. Gerety, Pratik C. Shah, Yunn-Yi Chen, Nancy R. Rice, Naomi Rosenberg, and Harinder Singh  
678

**An active v-abl protein tyrosine kinase blocks immunoglobulin light-chain gene rearrangement**  
Yunn-Yi Chen, Li Chun Wang, Mary S. Huang, and Naomi Rosenberg  
688

**Sex-specific regulation of the male-specific lethal-1 dosage compensation gene in Drosophila**  
Melanie J. Palmer, Ron Richman, Liz Richter, and Mitzi L. Kuroda  
698

**Notch 1 is essential for postimplantation development in mice**  
Pamela J. Swiatek, Claire E. Lindsell, Francisco Franco del Amo, Gerry Weinmaster, and Thomas Gridley  
707

**RNA editing in the Wilms' tumor susceptibility gene, WT1**  
Prem Mohini Sharma, Marianne Bowman, Stephen L. Madden, Frank J. Rauscher III, and Saraswati Sukumar  
720

**Specificity of HOX protein function depends on DNA–protein and protein–protein interactions, both mediated by the homeo domain**  
Vincenzo Zappavigna, Daniela Sartori, and Fulvio Mavilio  
732

---

**Cover**  
*Aspergillus nidulans fluG* mutants conidiate when grown adjacent to wild-type strains. *(Top)* Green-spored wild type; *(bottom)* yellow-spored *fluG* deletion mutant. *(For details, see Lee and Adams, p. 641.)*