

# MOLECULAR AND CELLULAR BIOLOGY

Volume 3

Contents for April 1983

No. 4

Tissue Specificity of Epithelial Keratins: Differential Expression of mRNAs from Two Multigene Families. KWAN HEE KIM, JAMES G. RHEINWALD, AND ELAINE V. FUCHS* .....	495-502
Characterization of a Cycloheximide-Resistant <i>Tetrahymena thermophila</i> Mutant Which Also Displays Altered Growth Properties. RICHARD L. HALLBERG* AND ELIZABETH M. HALLBERG	503-510
Expression and Stabilization of Microinjected Plasmids Containing the Herpes Simplex Virus Thymidine Kinase Gene and Polyoma Virus DNA in Mouse Cells. MASARU YAMAIZUMI, ARTHUR L. HORWICH, AND FRANK H. RUDDLE* .....	511-522
Spontaneous Fusion In Vivo Between Normal Host and Tumor Cells: Possible Contribution to Tumor Progression and Metastasis Studied with a Lectin-Resistant Mutant Tumor. ROBERT S. KERBEL,* ALAIN E. LAGARDE, JAMES W. DENNIS, AND TERRENCE P. DONAGHUE.....	523-538
Regulation of Human Histone Gene Expression: Kinetics of Accumulation and Changes in the Rate of Synthesis and in the Half-Lives of Individual Histone mRNAs During the HeLa Cell Cycle. NATHANIEL HEINTZ, HAZEL L. SIVE, AND ROBERT G. ROEDER* .....	539-550
Glucocorticoids and Chromosomal Position Modulate Murine Mammary Tumor Virus Transcription by Affecting Efficiency of Promoter Utilization. DAVID S. UCKER, GARY L. FIRESTONE, AND KEITH R. YAMAMOTO* .....	551-561
RNA and Homology Mapping of Two DNA Fragments with Repressible Acid Phosphatase Genes from <i>Saccharomyces cerevisiae</i> . NANCY ANDERSEN, GREGORY P. THILL, AND RICHARD A. KRAMER* .....	562-569
Comparative Analysis of the 5'-End Regions of Two Repressible Acid Phosphatase Genes in <i>Saccharomyces cerevisiae</i> . GREGORY P. THILL, RICHARD A. KRAMER,* KATHERINE J. TURNER, AND KEITH A. BOSTIAN.....	570-579
Fusion of the <i>Saccharomyces cerevisiae</i> <i>leu2</i> Gene to an <i>Escherichia coli</i> $\beta$ -Galactosidase Gene. ALFONSO E. MARTINEZ-ARIAS AND MALCOLM J. CASADABAN* .....	580-586
Characterization of the Gene and mRNA of the Large Subunit of Ribulose-1,5-Bisphosphate Carboxylase in Pea Plants. K. K. OISHI AND K. K. TEWARI* .....	587-595
Progression of the Transformed Phenotype in Clonal Lines of Abelson Virus-Infected Lymphocytes. CHERYL A. WHITLOCK,* STEVEN F. ZIEGLER, AND OWEN N. WITTE .....	596-604
A DNA-Binding Protein from <i>Ustilago maydis</i> Prefers Duplex DNA Without Chain Interruptions. JAMES R. RUSCHE AND WILLIAM K. HOLLOMAN* .....	605-612
Compartmentation of Uracil in <i>Euglena gracilis</i> . CLAUS H. WASTERNACK .....	613-622

Continued on following page

The Structural Genes for Three <i>Drosophila</i> Glue Proteins Reside at a Single Polytene Chromosome Puff Locus. THOMAS E. CROWLEY, MARTHA W. BOND, AND ELLIOT M. MEYEROWITZ*	623-634
Inheritance of Extrachromosomal rDNA in <i>Physarum polycephalum</i> . PATRICK J. FERRIS, VOLKER M. VOGT,* AND CHRISTINE L. TRUITT.....	635-642
Preparation of a "Functional Library" of African Green Monkey DNA Fragments Which Substitute for the Processing/Polyadenylation Signal in the Herpes Simplex Virus Type 1 Thymidine Kinase Gene. GEORGE M. SANTANGELO AND CHARLES N. COLE* .....	643-653
Killer Systems in <i>Saccharomyces cerevisiae</i> : Three Distinct Modes of Exclusion of M <sub>2</sub> Double-Stranded RNA by Three Species of Double-Stranded RNA, M <sub>1</sub> , L-A-E, and L-A-HN. REED B. WICKNER.....	654-661
Effects of Adenovirus Infection on rRNA Synthesis and Maturation in HeLa Cells. C. L. CASTIGLIA AND S. J. FLINT*.....	662-671
Ammonia Regulation of Amino Acid Permeases in <i>Saccharomyces cerevisiae</i> . WILLIAM E. COURCHESNE AND BORIS MAGASANIK* .....	672-683
Association of Glycoconjugates with the Cytoskeletal Framework. AVRI BEN-ZE'EV* AND RIVKA ABULAFIA .....	684-692
In Vitro Nuclear Transport of Ribosomal Ribonucleoprotein: Temperature Affects Quantity but Not Quality of Exported Particles. FRANK WUNDERLICH,* GÜNTER GIESE, AND HEINZ FALK .....	693-698
Evolution of Chromosomal Regions Containing Transfected and Amplified Dihydrofolate Reductase Sequences. RANDAL J. KAUFMAN, PHILLIP A. SHARP,* AND SAMUEL A. LATT .....	699-711
Fate of Microfilaments in Vero Cells Infected with Measles Virus and Herpes Simplex Virus Type 1. ELLIOTT BEDOWS,* K. M. K. RAO, AND MICHAEL J. WELSH.....	712-719
Regular Arrangement of Nucleosomes on 5S rRNA Genes in <i>Xenopus laevis</i> . DALLAN YOUNG AND DANA CARROLL* .....	720-730
Transformation Parameters and pp60 <sup>src</sup> Localization in Cells Infected with Partial Transformation Mutants of Rous Sarcoma Virus. LARRY ROHRSCHEIDER* AND MAE J. ROSOK .....	731-746
Multiple, Tandem Plasmid Integration in <i>Saccharomyces cerevisiae</i> . TERRY L. ORR-WEAVER AND JACK W. SZOSTAK* .....	747-749
Identification of the Cloned Gene for the Murine Transplantation Antigen H-2K <sup>b</sup> by Hybridization with Synthetic Oligonucleotides. DAN H. SCHULZE, LARRY R. PEASE, YUICHI OBATA, STANLEY G. NATHENSON, ANTONIO A. REYES, SATOSHI IKUTA, AND R. BRUCE WALLACE*.....	750-755
<i>Erratum</i>	
Inhibition of Adenovirus DNA Synthesis In Vitro by Sera from Patients with Systemic Lupus Erythematosus. MARSHALL S. HORWITZ, BETH R. FRIEFELD, AND HAROLD D. KEISER.....	756

\* Asterisk refers to person to whom inquiries regarding the paper should be addressed.