

MOLECULAR AND CELLULAR BIOLOGY

Volume 7

September 1987

No. 9

rRNA Genes of <i>Naegleria gruberi</i> Are Carried Exclusively on a 14-Kilobase-Pair Plasmid. C. Graham Clark and George A. M. Cross.....	3027-3031
<i>trans</i>-Acting Factors Interact with a Cyclic AMP Response Element To Modulate Expression of the Human Gonadotropin α Gene. J. Larry Jameson, Paul J. Deutsch, Gloria D. Gallagher, Randal C. Jaffe, and Joel F. Habener	3032-3040
Two Developmental Stages of <i>Neurospora crassa</i> Utilize Similar Mechanisms for Responding to Heat Shock but Contrasting Mechanisms for Recovery. Nora Plesofsky-Vig and Robert Brambl	3041-3048
Adenovirus E1A Requires Synthesis of a Cellular Protein To Establish a Stable Transcription Complex in Injected <i>Xenopus laevis</i> Oocytes. Joel D. Richter, Helen C. Hurst, and Nicholas C. Jones	3049-3056
Mouse Nerve Growth Factor Gene: Structure and Expression. Mark J. Selby, Robert Edwards, Frank Sharp, and William J. Rutter.....	3057-3064
Complex Regulation of the Muscle-Specific Contractile Protein (Troponin I) Gene. Stephen F. Konieczny and Charles P. Emerson, Jr.	3065-3075
Differential Nuclear Protein Binding to 5-Azacytosine-Containing DNA as a Potential Mechanism for 5-Aza-2'-Deoxycytidine Resistance. Lesley A. Michalowsky and Peter A. Jones	3076-3083
Two Missense Alleles of the <i>Drosophila melanogaster act88F</i> Actin Gene Are Strongly Antimorphic but Only Weakly Induce Synthesis of Heat Shock Proteins. Christine C. Karlik, Donna L. Saville, and Eric A. Fyrberg	3084-3091
Structural Significance of the GTP-Binding Domain of <i>ras</i> p21 Studied by Site-Directed Mutagenesis. David J. Clanton, Youyong Lu, Donald G. Blair, and Thomas Y. Shih	3092-3097
Cyclic AMP-Dependent Protein Kinase Regulates Sensitivity of Cells to Multiple Drugs. Irene Abraham, Roberta J. Hunter, Kathleen E. Sampson, Spencer Smith, Michael M. Gottesman, and Judy K. Mayo	3098-3106
The Testis-Specific Phosphoglycerate Kinase Gene <i>pgk-2</i> Is a Recruited Retroposon. Poppo H. Boer, Chaker N. Adra, Yun-Fai Lau, and Michael W. McBurney	3107-3112
Isolation and Physical Characterization of Three Essential Conidiation Genes from <i>Aspergillus nidulans</i>. Margaret T. Boylan, Peter M. Mirabito, Catherine E. Willett, Charles R. Zimmerman, and William E. Timberlake	3113-3118
Topoisomerase-Specific Drug Sensitivity in Relation to Cell Cycle Progression. Kuan-Chih Chow and Warren E. Ross	3119-3123
Characterization of an ATP-Dependent DNA Strand Transferase from Human Cells. Doina Ganea, Peter Moore, Lavanya Chekuri, and Raju Kucherlapati	3124-3130
Accurate and Efficient 3' Processing of U2 Small Nuclear RNA Precursor in a Fractionated Cytoplasmic Extract. Ann M. Kleinschmidt and Thoru Pederson	3131-3137
Molecular Cloning and Sequence of a Cholesterol-Repressible Enzyme Related to Prenyltransferase in the Isoprene Biosynthetic Pathway. Catherine F. Clarke, Richard D. Tanaka, Karen Svenson, Maria Wamsley, Alan M. Fogelman, and Peter A. Edwards	3138-3146

Continued on following page

Antibodies to <i>Xenopus</i> Egg S6 Kinase II Recognize S6 Kinase from Progesterone- and Insulin-Stimulated <i>Xenopus</i> Oocytes and from Proliferating Chicken Embryo Fibroblasts. Eleanor Erickson, Dragana Stefanovic, John Blenis, R. L. Erikson, and James L. Maller	3147–3155
Identification and Characterization of mRNAs Regulated by Nerve Growth Factor in PC12 Cells. Debra G. B. Leonard, Edward B. Ziff, and Lloyd A. Greene	3156–3167
Isolation of Telomere DNA from <i>Neurospora crassa</i>. Michael G. Schechtman	3168–3177
Unexpected Thymic Hyperplasia in Transgenic Mice Harboring a Neuronal Promoter Fused with Simian Virus 40 Large T Antigen. Florence M. Botteri, Herman van der Putten, Deborah F. Wong, Carol A. Sauvage, and Ronald M. Evans	3178–3184
Identification of Sequence Elements That Confer Cell-Type-Specific Control of <i>MFα1</i> Expression in <i>Saccharomyces cerevisiae</i>. Kaoru Inokuchi, Akiko Nakayama, and Fumio Hishinuma	3185–3193
Amount of RNA Secondary Structure Required To Induce an Alternative Splice. David Solnick and Susanna I. Lee	3194–3198
A <i>Podospora anserina</i> Longevity Mutant with a Temperature-Sensitive Phenotype for Senescence. Mitchell S. Turker, James G. Nelson, and Donald J. Cummings	3199–3204
Cell-Type-Dependent Gene Activation by Yeast Transposon Ty1 Involves Multiple Regulatory Determinants. Mahshid Company and Beverly Errede	3205–3211
Comparison of tRNA Gene Transcription Complexes Formed In Vitro and in Nuclei. Jon M. Huibregtse, Claire F. Evans, and David R. Engelke	3212–3220
Isolation and Characterization of Full-Length Functional cDNA Clones for Human Carcinoembryonic Antigen. Nicole Beauchemin, Sarita Benchimol, Denis Cournoyer, Abraham Fuks, and Clifford P. Stanners	3221–3230
The First Intron in the Human <i>c-abl</i> Gene Is at Least 200 Kilobases Long and Is a Target for Translocations in Chronic Myelogenous Leukemia. André Bernards, Charles M. Rubin, Carol A. Westbrook, Michael Paskind, and David Baltimore	3231–3236
Increased Frequency of N-Region Insertion in a Murine Pre-B-Cell Line Infected with a Terminal Deoxynucleotidyl Transferase Retroviral Expression Vector. Nathaniel R. Landau, David G. Schatz, Margaret Rosa, and David Baltimore	3237–3243
Molecular Cloning of fused, a Gene Required for Normal Segmentation in the <i>Drosophila melanogaster</i> Embryo. Marie-Christine Mariol, Thomas Preat, and Bernadette Limbourg-Bouchon	3244–3251
Organization of the Regulatory Region of the Yeast <i>CYC7</i> Gene: Multiple Factors Are Involved in Regulation. Toni Prezant, Karl Pfeifer, and Leonard Guarente	3252–3259
In Vivo DNA-Binding Properties of a Yeast Transcription Activator Protein. Scott B. Selleck and John E. Majors	3260–3267
A Single Domain of Yeast Poly(A)-Binding Protein Is Necessary and Sufficient for RNA Binding and Cell Viability. Alan B. Sachs, Ronald W. Davis, and Roger D. Kornberg	3268–3276
Identification of a Complex Associated with Processing and Polyadenylation In Vitro of Herpes Simplex Virus Type 1 Thymidine Kinase Precursor RNA. Fang Zhang and Charles N. Cole	3277–3286

Analysis of Functional Domains of the <i>v-fms</i>-Encoded Protein of Susan McDonough Strain Feline Sarcoma Virus by Linker Insertion Mutagenesis. Stewart D. Lyman and Larry R. Rohrschneider.....	3287–3296
Development of a Fungal Transformation System Based on Selection of Sequences with Promoter Activity. B. Gillian Turgeon, Robert C. Garber, and O. C. Yoder	3297–3305
The Yeast Acid Phosphatase Can Enter the Secretory Pathway without Its N-Terminal Signal Sequence. Sandra Silve, Michel Monod, Albert Hinnen, and Rosine Haguenaer-Tsapis.....	3306–3314
Transcriptional Enhancers in the HLA-DQ Subregion. Kate E. Sullivan and B. Matija Peterlin	3315–3319
Relationship between Proteins Encoded by Three Human γ-Crystallin Genes and Distinct Polypeptides in the Eye Lens. Paul Russell, Susan O. Meakin, Thomas C. Hohman, Lap-Chee Tsui, and Martin L. Breitman.....	3320–3323
Primate Brain-Specific Cytoplasmic Transcript of the Alu Repeat Family. Joseph B. Watson and J. Gregor Sutcliffe	3324–3327
Amplification of the IMP Dehydrogenase Gene in Chinese Hamster Cells Resistant to Mycophenolic Acid. Frank R. Collart and Eliezer Huberman	3328–3331
Regulated Expression of the Tyrosine Hydroxylase Gene by Epidermal Growth Factor. Elaine J. Lewis and Dona M. Chikaraishi	3332–3336
Developmental Regulation and Identification of an Isozyme Encoded by <i>altB</i>, an Alpha-Tubulin Locus in <i>Physarum polycephalum</i>. Larry L. Green, Marianne M. Schroeder, Maureen A. Diggins, and William F. Dove	3337–3340
Protein-DNA Cross-Linking Reveals Dramatic Variation in RNA Polymerase II Density on Different Histone Repeats of <i>Drosophila melanogaster</i>. David S. Gilmour and John T. Lis	3341–3344
Subnuclear Associations of the <i>v-myb</i> Oncogene Product and Actin Are Dependent on Ionic Strength during Nuclear Isolation. William J. Boyle and Marcel A. Baluda	3345–3348
A Burst of <i>c-fos</i> Gene Expression in the Mouse Occurs at Birth. John W. Kasik, Yu-Jui Yvonne Wan, and Keiko Ozato.....	3349–3352
Unique DNA Repair Properties of a Xeroderma Pigmentosum Revertant. James E. Cleaver, Felipe Cortés, Louise H. Lutze, William F. Morgan, Audrey N. Player, and David L. Mitchell.....	3353–3357
<i>c-myb</i> Protein Expression Is a Late Event during T-Lymphocyte Activation. Joseph S. Lipsick and William J. Boyle	3358–3360
Control of Hematopoietic Cell Growth Regulators during Mouse Fetal Development. Martine Azoulay, Cynthia G. Webb, and Leo Sachs.....	3361–3364
One- and Two-Step Transformations of Rat Thyroid Epithelial Cells by Retroviral Oncogenes. A. Fusco, M. T. Berlingieri, P. P. Di Fiore, G. Portella, M. Grieco, and G. Vecchio	3365–3370