

## JEFFRESS RESEARCH GRANT AWARDS

The Allocations Committee of the Thomas F. and Kate Miller Jeffress Memorial Trust has announced the award of Jeffress Research Grants to the institutions listed below to support the research of the investigator whose name is given. The Jeffress Trust, established in 1981 under the will of Robert M. Jeffress, a business executive and philanthropist of Richmond, supports research in chemical, medical and other natural sciences through grants to non-profit research and educational institutions in the Commonwealth of Virginia. The Jeffress Research Grants being announced here have been awarded in 1991.

The Jeffress Memorial Trust is administered by NationsBank of Virginia, N. A. Additional information about the program of the Trust may be obtained by writing to: Advisor, Thomas F. and Kate Miller Jeffress Memorial Trust, NationsBank, Trust Division, P. O. Box 26903, Richmond, VA 23261.

- S. Laura Adamkewicz, George Mason University. Evolutionary Genetics of Donacid Clams. \$23,997 (two years).
- Sylvia R. Betcher, Virginia Commonwealth University. Sodium-dependent Nucleoside Transport: Effects of 2-Azidoadenosine. \$24,011 (one year).
- David R. Bevan, Virginia Polytechnic Institute and State University. Binding of Carbohydrates to Gliadins. \$23,438 (one year).
- Robert A. Bloodgood, University of Virginia. Transmembrane Signalling in the Chlamydomonas Flagellum. \$15,700 (one year renewal).
- Alan H. Christensen, George Mason University. Promoter Analysis of a Maize Ubiquitin Gene. \$27,115 (two years).
- Gail E. Christie and Catherine H. Roberts, Virginia Commonwealth University. Structural and Functional Characterization of the Transcriptional Activator Protein, Ogr. \$8,400 (one year).
- Fu-lin Chu, College of William and Mary, Virginia Institute of Marine Science. Immune Capacity and Susceptibility of Eastern Oysters, Crassostrea Virginia, to the Pathogen, Perkinsus marinus (Dermo). \$15,000 (one year renewal).
- Gary F. Clark, Eastern Virginia Medical School. Investigation of the Role of Glycoconjugates in Human Sperm - Egg Binding Using the Hemizona Assay System. \$44,490 (three years).
- Randall D. Davy, Liberty University. Stability and Energy of Cyclic Structures of Simple Compounds of Silicon, Sulfur, and Phosphorus. \$17,329 (one year).
- Richard N. Day, University of Virginia. The Regulation of Protein Kinase Inhibitory Protein (PKI). \$40,225 (two years).
- Scott R. Diehl, Virginia Commonwealth University. Molecular Genetic Studies of a Schwannoma Cell Line with a Translocation in the Vicinity of the NFI Gene. \$15,478 (one year).
- M. Samy El-Shall, Virginia Commonwealth University. Studies on Nucleation and Growth in Supersaturated Vapors. \$17,245 (one year renewal).
- David A. Gewirtz and Lawrence Povirk, Virginia Commonwealth University. Site-Specific DNA Damage Induced by Antineoplastic Drugs. \$20,185 (one year).

- Elizabeth Anne Grabau, Virginia Polytechnic Institute and State University. Soybean Mitochondrial Transformation via Microprojectile Bombardment. \$12,888 (one year).
- Jack L. Haar, Virginia Commonwealth University. Isolation of Thymic Factors for Bone Marrow Pre-T Lymphocytes. \$17,505 (one year renewal).
- Steven L. Herr, Virginia Commonwealth University. Bolometric Studies of the Optical Properties of Thin Film High Temperature Superconductors. \$22,073 (one year).
- Barry T. Hinton, University of Virginia. Regulation of Epididymal Gamma-Glutamyl Transpeptidase. \$18,672 (one year renewal).
- Michael P. Holsapple, Virginia Commonwealth University. Activation of B-lymphocytes by TCDD. \$38,999 (one year renewal).
- Laura C. Huang, University of Virginia. In vivo Study of Anabolic Effects of Insulin Mediator. \$29,720 (two years).
- Norbert E. Kaminski, Virginia Commonwealth University. Immunomodulation by Serum Amyloid A Protein. \$31,750 (one year renewal).
- Ivor T. Knight, James Madison University. Investigation of the Stability of Nucleic Acids in Nonrecoverable, Enteropathogenic Bacteria and Their Detection by Hybridization Probes. \$26,980 (two years).
- Rakesh C. Kukreja, Virginia Commonwealth University. Molecular Mechanisms of Oxygen Radicals and Neutrophil-Mediated Myocardial Injury. \$30,366 (two years).
- Barbara J. Mann, University of Virginia. Analysis of the Genes Encoding the Galactose Lectin of *Entamoeba histolytica*. \$27,458 (one year).
- Ravinder K. Mittal, University of Virginia. Role of crucial diaphragm in the prevention of gastrointestinal reflux. \$20,955 (one year).
- Louise B. Montgomery, Marymount University. A Study of Viral Persistence. \$14,625 (one year).
- Roy C. Ogle and John A. Persing, University of Virginia. The Influence of Basement Membranes on Osteogenesis. \$28,288 (one year).
- K. Kevin Pfister, University of Virginia. The Mechanism of Chromosome Movement in Mitosis. \$20,600 (one year).
- Arun J. Sanyal, Virginia Commonwealth University. The Effects of Bile Acids on Iron Absorption. \$16,000 (one year).
- Jerzy Sarosiek, University of Virginia. The Role of Esophageal Mucin-Lipid-Bicarbonate Complex in Mucosal Protection. \$14,200 (one year).
- J. Neel Scarsdale, Jr., Virginia Commonwealth University. NMR Studies of Protein Saccharide Interactions. \$18,900 (one year).
- Beate Schmittmann, Virginia Polytechnic Institute and State University. Non-Equilibrium Dynamics of Driven Multi-Species Lattice Gas Models. \$33,557 (three years).
- John D. Schuetz, Virginia Commonwealth University. Regulation of Cellular Detoxification by P-Glycoprotein in Rat and Human Hepatocytes. \$21,220 (one year renewal).
- Joseph D. Schwartzman, University of Virginia. Motility and Host Cell Invasion of *Toxoplasma gondii*. \$37,413 (one year renewal).

- Robert F. Smith, George Mason University. Neurobehavioral Effects of Prenatal Cocaine. \$19,558 (one year renewal).
- James W. Tanko, Virginia Polytechnic Institute and State University. Interplay of Structure and Reactivity in Atom Abstraction Reactions. \$16,047 (one year).
- Ted S. Thomas, University of Virginia. The Role of SOG in Complement Inhibition. \$29,795 (one year renewal).
- Donna H. Wang, Eastern Virginia Medical School. Microvascular changes in rat cremaster muscle during chronic decreases in blood flow. \$19,100 (one year renewal).
- Grace A. Wyngaard, James Madison University. A Preliminary Analysis of the Role of Ribosomal RNA Genes in Chromatin Diminution. \$16,995 (one year renewal).
- Vicki H. Wsocki, Virginia Commonwealth University. Fundamentals of Collisions of Polyatomic Ions with Surfaces. \$11,660 (one year renewal).