

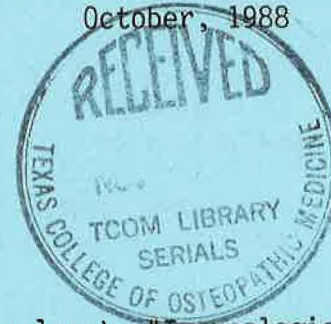
T C O M

research notes

Volume 4, Number 2

Published by the Research Office
Texas College of Osteopathic Medicine

October, 1988



EXTERNAL APPLICATIONS FUNDED

08/01/88 - 10/01/88

WILLIAM BARROW, PH.D. (Department of Microbiology/Immunology) "Immunologic function and antigenemia in Mycobacterium avium infected patients" American Osteopathic Association 09/01/88 - 08/31/89 \$12,538.

JAMES L. CAFFREY, PH.D. (Department of Physiology) "Opiate/autonomic interactions in the circulatory system" NHLBI (Year 2 of 3 year award) 09/01/88 - 08/31/89 \$38,431 (TDC); \$7,883 (IDC)= \$46,314.

JAMES L. CAFFREY, PH.D. (Department of Physiology) "Opiate/autonomic interactions in the circulatory system" NHLBI - RCDA (Year 2 of 5 year award) 09/30/88 - 09/29/89 \$50,580 (TDC); \$4,046 (IDC)= \$54,626.

MICHAEL EMMETT-OGLESBY, PH.D. (Department of Pharmacology) "Characterization of benzodiazepine dependence" NIDA 08/01/85-08/31/92 (Year 1 of 4 year award) \$92,992 (TDC); \$23,420 (IDC)= \$116,412.

GREGORY FREISS, D.O. (Department of Medicine) "Multicenter, open-label, variable dose, evaluation of morphine sustained release suspension administered for thirty days in the treatment of cancer pain" Pharmaco Dynamics Research, Inc. from 08/01/88 - 07/31/89 \$8,000.

ROBERT W. GRACY, PH.D. (Department of Biochemistry) "Development of a Skin Equivalent System" Johnson & Johnson Baby Care 09/01/88 - 08/31/89 \$16,125.

DAVID OSTRANSKY, D.O. (Department of Medicine) "Comparison of atrovent solution versus albuterol solution in patients with COPD" Boehringer Ingelheim Pharmaceuticals 08/01/88 - 07/31/89 \$69,000.

PETER B. RAVEN, PH.D. (Department of Physiology) "Education of scientists in cardiovascular regulation" NHLBI (Year 1 of 5 year award) 09/01/88 - 06/30/89 \$30,642 (TDC); \$2,084 (IDC)= \$32,726.

RICHARD SINCLAIR, PH.D. (Admissions Office) "Health Careers Opportunity Program" 09/01/88 - 08/31/89 \$190,928.

THOMAS YORIO, PH.D. (Department of Pharmacology) "Alpha₂-adrenoreceptors and acidification in renal epithelia" American Heart Association - Texas Affiliate 07/01/88 - 06/30/89 \$27,207.

APPLICATIONS SUBMITTED FOR FUNDING

09/01/88 - 10/01/88

FRANCIS X. BLAIS, D.O. (Department of Medicine) "ADP-ribosylation and mechanisms of lymphocyte activation" NCI 07/01/89 - 06/30/94 \$476,842.

LARRY BUNNELL, D.O. (Department of General and Family Practice) "Graduate training in family medicine" HSRA 07/01/89 - 06/30/92 \$689,900.

JAMES L. CAFFREY, PH.D. (Department of Physiology) "Radioiodination of rat prolactin" Alcon Laboratories 09/01/88 - 08/31/89 \$1,000.

ROBERT W. GRACY, PH.D. (Department of Biochemistry) "Study of the synthesis of therafectin, amiprilase HCl" Greenwich Pharmaceuticals 10/01/88 - 09/30/89 \$38,570.

ROBERT W. GRACY, PH.D. (Department of Biochemistry) "Evaluation of therafectin using a skin equivalent system in culture" Greenwich Pharmaceuticals 10/01/88 - 09/30/89 \$21,371.

CARL E. JONES, PH.D. (Department of Physiology) "Study of adrenergic eye drugs" Alcon Laboratories 10/01/88 - 09/30/89 \$15,000.

MARK MCKINNEY, PH.D. (Department of Medicine) "Development of an interpersonal skills learning component in a required ambulatory medicine clerkship" National Fund for Medical Education 10/01/89 - 08/31/90 \$55,762.

DAVID OSTRANSKY, D.O. (Department of Medicine) "Nutritional characterization of patients with varying stages of human immunodeficiency virus infections" Caremark Home Care, Baxter Travenol Pharmaceuticals 11/01/88 - 10/31/89 \$22,083.

FRANK PAPA, D.O. (Department of Medical Education) "Expert system shell-based research and instruction tools" NIH - FIRST Program 09/01/89 - 08/31/94 \$350,000.

PETER B. RAVEN, PH.D. (Department of Physiology) "Exercise training and baroreceptor function" NHLBI (Year 3 of 4 year award) 12/01/88 - 11/30/89 \$96,943.

PETER B. RAVEN, PH.D. (Department of Physiology) "Baroreflexes and orthostatism: a fitness effect?" NHLBI 07/01/89 - 06/30/94 \$540,952.

KONRAD SCHEEL, PH.D. (Department of Physiology) "Mechanism of coronary vascular adaptation" NHLBI (Year 4 of 5 year award) 12/01/88 - 11/30/89 \$127,974.

MARYLOU SCHUNDER, PH.D. (Office of Student Affairs) "Proposal to continue support program for retention (to graduation) of minority and disadvantaged students" AACOM 09/01/89 - 08/31/92 \$112,269.

SCHOLARLY ACTIVITIES

FACULTY PUBLICATIONS AND PRESENTATIONS

IRVIN M. KORR, PH.D. (Department of Medical Education) "The 'cause' of illness: disease or person? Implications for the choice of outcome measures" Complementary Medical Research Vol.2, No.3:13-21 (1988).

IRVIN M. KORR, PH.D. (Department of Medical Education) "Osteopathic research areas and strategies" J. Appl. Nutrition Vol.40. No.1:51-56 (1988).

GWIRTZ, P.A., H.J. MASS, J.R. STRADER and C.E. JONES (Department of Physiology) "Coronary and cardiac responses to exercise after chronic ventricular sympathectomy" Medicine & Science in Sports & Exercise Vol.20, No.2:126-135 (1988).

STRADER, J.R., P.A. GWIRTZ and C.E. JONES (Department of Physiology) "Comparative effects of Alpha-1 and Alpha-2 adrenoreceptors in modulation of coronary flow during exercise" J. Pharm. & Experiment. Therapeutics Vol.246, No. 2:772-778 (1988).

ROBERT L. KAMAN, PH.D. (Department of Public Health/Preventive Medicine) "Fighting substance abuse: the fitness connection" Corporate Fitness, December/January: 24-26 (1988).

DOWNEY, H.F., A.G. WILLIAMS, Jr., S. YONEKURA, N. WATANABE and M.E. LAWRENCE "Dominant role of circulating catecholamines in the myocardial contractile response to intravenous nicotine" J. Cardiovascular Pharmacology. 12:58-64 (1988).

DOWNEY, H.F., G.F. MERRILL, S. YONEKURA, N. WATANABE and C.E. JONES "Adenosine deaminase attenuates norepinephrine-induced coronary functional hyperemia" Am. J. Phys. 254 (Heart and Circulatory Physiology 23):H417-H424 (1988).

HENGY, B. and H.F. DOWNEY. "A study of angiogenic factor" Student Doctor. 9:35 (1988).

MERRILL, G.F., H.F. DOWNEY, S. YONEKURA, N. WATANABE and C.E. JONES "Adenosine deaminase attenuates canine coronary vasodilation during regional non-ischaemic myocardial hypoxia" Cardiovascular Res. 22:345-350 (1988).

YONEKURA, S., N. WATANABE and H.F. DOWNEY "Transmural variation in autoregulation of right ventricular blood flow" Circulation Res. 62:776-781 (1988).

ANDRAS G. LACKO, PH.D. (Department of Biochemistry) presented a paper titled "Inhibition of LCAT activity in the plasma of hypercholesterolemic pigs" at the 14th International Congress of Biochemistry at Prague, Czechoslovakia this summer. Dr. Lacko also presented a lecture "Lipoprotein substrates for the LCAT reaction" at the Karolinska Institute, Stockholm, Sweden.

H. FRED DOWNEY, PH.D (Department of Physiology) presents "Non-radioactive coloured micrispheres suggest lateral area of risk to be smaller than perfusion territory" at the International Society for Oxygen Transport to Tissue in Ottawa, Canada. Authors of the paper included Downey, W.J. Reeves and K. Rakusan.

TCOM GRADUATE RECEIVES HONOR

Nancy Zatopec, D.O., who recently completed a residency research rotation in the Department of Internal Medicine, has won second place in the American College of Osteopathic Internists competition. Dr. Zatopec won for her clinical research abstract "Effect of dietary niacin on nicotinamide adenine dinucleotide levels in human peripheral lymphocytes" which will be presented at the 48th Annual AOCI Convention and Scientific Session at Miami Beach, FL this month. Nancy completed this study while on a clinical research rotation with Elaine L. Jacobson, Ph.D.

NEWS AND NOTES FROM NIH

FUNDING PRIORITIES FOR 1989:

Congress last month passed and sent to the White House a fiscal 1989 spending package that would give NIH a 7.5% increase over 1988.

The \$7.1 billion NIH budget is \$500 million over the current level. The increase includes \$140 million more for AIDS, which will bring AIDS funding at NIH to a \$606.9 million total next year.

Areas targeted for special emphasis are Alzheimer's disease research at the Aging Institute and research on infant mortality at the Child Health Institute. In addition, the measure paves the way for transferring \$96 million from the existing neurology institute if Congress passes the pending legislation that would create a new institute on deafness.

The Alcohol, Drug Abuse and Mental Health Administration (ADAMHA) will see a 15% increase, fueled mainly by added state substance abuse and mental health funds and a major boost at the NIMH for schizophrenia and other neuroscience research.

ADAMHA will be able to fund an increased number of new and competing research project grants next year, 628 awards compared to 551 this year, with the bulk funded by NIMH. The number of mental health research grants will increase to 367 in fiscal 1989 from 325 this year. Mental Health research will jump to \$293 million from \$254 million, with increases slated for drug and alcohol research as well.

Research training funds will remain level, but clinical training funds would plummet to \$12.8 million from 16.7 million, a drop to 112 training projects in 1989 from 189 in 1988. However, faculty scholar clinical training program, which began this year, will fund 20 new awards.

COMPLETING 398 APPLICATIONS:

The NIH Guide clarified instructions contained in the PHS 398 application packet dated 9/86. Tables, graphs and figures, necessary for the review of the research plan will be included in the 20-page allowance and should be incorporated in the research plan section of the application. Figures and tables that are not necessary to the review of the proposal may be included in the appendix and will not be included in the 20-page limitation. The page limitations are being strictly enforced. Applications that exceed these page limitations will be returned without review.

MORATORIUM ON CERTAIN FETAL TISSUE RESEARCH:

The Assistant Secretary for Health, HHS, is instituting a moratorium, effective immediately, on research funded by the PHS utilizing human fetal tissue, obtained from induced abortions, for therapeutic transplantations. These restrictions do not apply to therapeutic research using human fetal tissue from spontaneous abortions or stillbirths, nor do they apply to nontherapeutic research uses of any legally acquired human fetal tissue.

NIH SYMPOSIUM ON GENETIC BASIS OF HUMAN DISEASE:

NHLBI is sponsoring a 2-day symposium entitled "Genetic Basis of Human Disease: Molecular Mechanisms and Strategies for Therapy" from November 30-December 1, 1988 in the Masur Auditorium of the NIH Clinical Center, Bethesda, MD. Leading experts in the field will present their views on the state of the science, the problems facing current understanding, and anticipated future developments in the genetic basis of human diseases.

Principal sessions cover gene mutations and disease expression, the molecular basis of cardiovascular disease, genetic diseases affecting the lungs, and gene transfer and regulation. Presentations will be followed by open discussion.

This series is conducted by NHLBI to capitalize on and transfer the progress in basic science disciplines to clinical research problems. For further information, please contact: Dr. Elliot C. Kulakowski (301) 496-3620.

UPCOMING MEETINGS

November 6-9	12th Annual Symposium on Computer Applications in Medical Care in Washington, D.C.
November 13-18	18th Annual Meeting of the Society for Neuroscience in Toronto, Canada
November 18-22	41st Annual Meeting of the Gerontological Society in San Francisco, CA

December 3-6	Annual Meeting of the American Society of Hematology in San Antonio, TX
January 14-20, 1989	Glycobiology in Frisco, CO
January 29-February 2	Joint Annual Meeting of the American Society for Cell Biology and the American Society for Biochemistry and Molecular Biology in San Francisco, CA
February 27-March 6	Molecular Biology of Aging at Santa Fe, NM

GRANT APPLICATION DEADLINES

<u>Date/Program</u>	<u>Agency</u>	<u>Phone Contact</u>
November 18		
Internal and Pediatric Residency Training	HRSA	(301) 443-6960
November 21		
Faculty Development in Family Medicine	HRSA	(301) 443-6960
November 28		
Sexually Transmitted Diseases Research	NIAID	(301) 496-7728
December 1		
Hyperglycemia and cardiovascular disease	NHLBI	(301) 496-4333
Lipoprotein-hemostatic system interaction	NHLBI	(301) 496-8966
December 9		
Cellular growth and oncogenes in lung	NHLBI	(301) 496-7171
Cellular/animal models for sickle cell	NHLBI	(301) 496-6931
Natural products drug discovery groups	NCI	(301) 496-8703

REGIONAL AND NATIONAL FOUNDATIONS SUPPORTING MEDICAL RESEARCH

<u>Organization</u>	<u>State</u>
Abbott Laboratories Fund	IL
Bristol-Myers Fund	NY
Broadhurst	OK
China Medical Board of NY	NY
Clark, Edna McConnell	NY
Culpepper, Charles E.	NY

Dreyfus, Camille and Henry	NY
duPont, Alfred I.	FL
Edison, Charles, Fund	NJ
Educational Foundation of America	CT
Falk, Dr. Ralph & Marian, Medical Research Foundation	IL
Francis, Parker B., III	KS
Freed	DC
Fullerton	NY
General Motors	MI
Glenn, Paul F., Foundation for Medical Research	NY
Hammer, Armand	IL
Hearst	NY
Hoffman-La Roche	NJ
HOR	TX
Interferon	TX
J.M.	NY
Kleberg, Robert J. & Helen C. Kleberg	TX
Kroc	CA
Lasker, Albert & Mary	NY
Levitt	NY
Mabee, J.E. and L.E.	OK
Mallinckrodt, Edward J.	MO
Markey, Lucille P., Charitable Trust	FL
MCA	CA
McGovern, John P.	TX
Merck, John, Fund	NY
Noble, Samuel Roberts	OK
Pfeiffer, Gustavus and Louise, Research Foundation	CA
Puritan-Bennett	KS
Retirement Research Foundation	IL
Revson, Charles H.	NY
RGK	TX
Sandoz Foundation of America	NJ
Soiland, Albert, Cancer Foundation	CA
Wallace Genetic Foundation	NY
Warner-Lambert	NJ
Whitney, Helen Hay	NY
Whitehead Charitable Foundation	CT
Zlinkoff, Sergei S., Fund for Medical Research & Education	NY