

Published by the Research Office  
Texas College of Osteopathic Medicine

JUNE, 1987

**RESEARCH PROPOSALS SUBMITTED - JUNE, 1987**

- NIA "Age related hyperlipidemia in rats" **Andras G. Lacko, Ph.D.**  
(Department of Biochemistry).
- NEI "Phospholipid metabolism and ciliary process epithelial transport" **Thomas Yorlo, Ph.D.** (Department of Pharmacology).
- NIH "ADP-ribosylation and mechanisms of lymphocyte activation" **Francis X. Blais, D.O. Physician Scientist Award** (Department of Medicine).
- AFAR "Biosynthesis of mycobacterium avium surface antigens" (AIDS) **William Barrow, Ph.D.** (Department of Microbiology / Immunology).
- Burroughs "Reversal of senescence-like cognition-deficits by BWX in autoimmune mice" by **Harbans Lal, Ph.D.** (Department of Pharmacology).
- AHA-Nat. "Adrenergic limitation of myocardial flow during exercise" **Patricia A. Gwartz, Ph.D. Established Investigator Award** (Department of Physiology).
- NIAID "Processing of AIDS related mycobacterial antigens" **William Barrow, Ph.D.** (Department of Microbiology / Immunology).
- NIAID "Tissue culture/genetic studies of Treponema palladium" **David Cox, Ph.D.** [Continuation - last year of three year award] (Department of Microbiology / Immunology).
- DDC "Screening of beta-antagonist analogues as efficacious antiglaucoma drugs" **Edward E. Elko, Ph.D. and Thomas Yorlo, Ph.D.** (Department of Pharmacy).
- AHA-Nat. "Opiate adrenergic interactions in the myocardium" **James Caffrey, Ph.D. Established Investigator Award** (Department of Physiology).
- NHLBI "Exercise training and coronary vascular responsiveness" **Patricia A. Gwartz, Ph.D.** [Competing renewal - five year proposal] (Department of Physiology).
- ADRDA "Effect of reducing autoimmunity development in mice with accelerated aging and cognitive dysfunctions" **Konrad Retz, Ph.D.** (Department of Pharmacology).

**TOTAL FUNDING REQUESTED**

**\$ 2,739,286**

**RESEARCH AWARDS RECEIVED - JUNE, 1987**

**EUGENE E. QUIST, PH.D.** "Regulation of cardiac function by muscarinic receptors" American Heart Association - Texas Affiliate (one year award) \$27,500 (Department of Pharmacology).

**GARY E. WISE, PH.D.** "SEM analysis of poliovirus", Surgikos - \$750 (Department of Anatomy).

**H. FRED DOWNEY, PH.D.** "NOVA STAT profile analyzer" National Heart, Lung and Blood Institute - Small Instrumentation Grant Program (institutional award) \$10,762 (Department of Physiology).

**MYRON K. JACOBSON, PH.D.** "Niacin nutrition, ADP-ribosylation and cancer symposium", National Cancer Institute, \$5,000 (Department of Biochemistry).

**JAMES L. CAFFREY, PH.D.** "Endogenous opiate interactions with the sympathetic innervation of the heart", American Osteopathic Association (one year award) \$13,265 (Department of Physiology).

**DOUGLAS WOOD, PH.D. and HARBANS LAL, PH.D.** "Chronic administration and withdrawal from cocaine: a behavioral analysis of anxiogenic effects" American Osteopathic Association (one year award) \$7,703 (Department of Pharmacology).

**BEN G. HARRIS, PH.D.** "Control mechanisms in filarial energy metabolism" World Health Organization (first of three year award - total award \$247,289) \$78,540 (Department of Biochemistry).

**HOWARD J. MASS, PH.D.** "Regional function in the coronary vasodilated isolated heart" American Heart Association -Texas Affiliate (one year) \$25,388 (Department of Physiology).

**EDWARD E. ELKO, PH.D.** "Minority hypertension research development grant" National Heart, Lung and Blood Institutional - institutional training award (first year of three year award - total award \$125,887) \$41,386 (Department of Pharmacology).

**FRANK J. PAPA, D.O.** "A student oriented computer-based learning, teaching and medical information management resource" American Association of Colleges of Osteopathic Medicine - FOCUS Award Program -(one year) \$11,755.75 (Division of Emergency Medicine).

**TOTAL FUNDING RECEIVED**

**\$ 222,049.75**

**CURRENT AGGREGATE FUNDING OF RESEARCH  
AT THE TEXAS COLLEGE OF OSTEOPATHIC MEDICINE**

Support has been received from the following non-federal agencies to a total of \$1,715,253.

<u>American Heart Association</u>	\$ 196,068
<u>American Osteopathic Association</u>	\$ 161,763
<u>Other</u>	\$1,357,422
World Health Organization	
Pharmaceutical Companies	
Medical Device Companies	
AACOM, Juvenile Diabetes	
Association, National Diabetes	
Association	

Support from the federal government, primarily the National Institutes of Health, amounts to \$7,483,255. Following is the breakdown by institute:

NHLBI	\$2,714,363
NIA	\$1,036,846
NCI	\$1,029,646
NIAID	\$ 862,149
NIADDKD	\$ 494,661
NIDA	\$ 426,173
NEI	\$ 274,165
NIGM	\$ 187,678
NIAAA	\$ 173,483
NICHHD	\$ 128,974
Research Res.	\$ 96,390
Other Federal	\$ 58,727

This is an aggregate external funding total of \$9,198,508.

## RESEARCH NOTES AND NEWS

**Maira McInroy-Hocevar**, LRC Librarian, attended the Health Sciences Communications Association convention in Norfolk, VA. Maira was the Chair of the Biomedical Libraries Interest Group during 1986/87 and received a Certificate of Appreciation from HeSCA for her contribution to the administration and programs of the association. HeSCA's purpose is to provide opportunities for the sharing and exchange of ideas, concerns and interests of other professionals involved in the effective application of educational technology to health sciences education.

The research program of **Carl E. Jones, Ph.D.**, Chairman of Physiology, dealing with medical diagnosis and treatment aboard NASA's space station was recently cited in an article in Windows, Spring, 1987 which is published by the Texas Engineering Experimental Station. Dr. Jones laboratory is evaluating promising technologies and equipment for use in the space station's Health Maintenance Facility.

A symposium on Current Topics in Rheumatology and Gastroenterology which was held at the Marriott Mandalay at Los Colinas was co-sponsored by the TCOM Department of Medicine and the Northwest Texas Chapter of the Arthritis Foundation. TCOM faculty who made presentations were **Bernard Rubin, D.O.** and **Monte Troutman, D.O.**

**Mary Spijkerman**, Associate Director, Office of Sponsored Programs, was elected Secretary-Treasurer of Region V of the National Council of University Research Administrators at the recent regional meeting at The Woodlands, TX.

## PRESENTATIONS AT MEETINGS

"Stress in Space" by John Measel, Ph.D., Department of Microbiology / Immunology at the symposium on Advanced Flow Cytometry: Space Applications and Terrestrial Spinoffs which was held at the Oppenheimer Study Center of the Los Alamos National Laboratory.

The following papers were presented by members of the Department of Physiology at the annual meeting of the American College of Sports Medicine which was held in Las Vegas, Nevada:

"The effect of endurance exercise training on responses to progressive lower body negative pressure" by M.L. Smith, G.H.J. Stevens, and P.B. Raven.

"Baroreceptor responsiveness to phenylephrine in exercise trained humans" by G.H.J. Stevens, M.L. Smith, J.A. Pawelczyk, and P.B. Raven.

"Autonomic control of heart rate during progressive hypotension after endurance exercise training: a power spectral analysis" by J.A. Pawelczyk, M.L. Smith, G.H.J. Stevens and P.B. Raven.

## MEETINGS OF INTEREST

August 15-19	Annual meeting of the American Society of Pharmacology and Experimental Therapeutics in Honolulu, Hawaii.
August 28-Sept. 1	95th Annual meeting of the American Psychological Association in New York City.
October 18-21	Annual meeting of the American Neurological Society in San Francisco, CA.
October 18-23	Annual meeting of the American Academy of Physical Medicine and Rehabilitation in Orlando, FL.
November 1-4	Symposium on Computer Applications in Medical Care in Washington, D.C.
November 8-12	Annual meeting of the American Association for Laboratory Animal Science in Denver, CO.
November 16-20	27th Annual meeting of the American Society for Cell Biology in St. Louis, MO.
November 16-21	Annual meeting of the Society for Neuroscience in New Orleans, LA.
December 2-7	Joint Japan-United States Congress of Pharmaceutical Sciences in Honolulu, Hawaii.

## REVISED PHS 398 APPLICATIONS AVAILABLE

The newly revised PHS grant application form (PHS 398) is now available from the Research Office. It replaces the form dated 5/82. The new PHS 398 application kit includes instructions for applying for new, competing renewal, and competing supplemental research grant support. In addition, the new version incorporates the National Research Service Award (NRSA), Institutional Training Grant form (formerly PHS 6025 form), as well as supplemental instructions for applying for a Research Career Development Award (RCDA).

The new form should be used by NRSA Institutional Training Grant applicants starting with the **September 10, 1987** receipt date, and by research grant and RCDA applicants starting with the **October 1, 1987** receipt date.

The revised application kit includes several significant changes. Special attention should be paid to the instructions on page limits for core elements common to all proposals. For example, Section A-D of the Research Plan should not exceed 20 pages in length, unless specified differently in a program announcement, a request for applications, or supplemental instructions. In addition, there are important changes in the face page, page 2 (abstracts and key personnel) as well as budget.

If sufficient interest is expressed, the Research Office will conduct a short workshop for faculty and/or secretarial staff on the changes in the application. If interested, please call x2651.

#### **NAVAL RESEARCH OFFICE LAUNCHES HEALTH PROGRAMS**

The Office of Naval Research has initiated four new biomedical research programs. The office issued broad agency announcements in these areas:

- o regulatory biology of injured cells. Contact: (202) 696-4055 [preproposals are due August 1; full proposals November 1.]
- o hypothalamic and pituitary responses to stress. Contact: (202) 696-4055 [preproposals are due August 1; full proposals November 1.]
- o macromolecular and cellular effects of pressure. Contact (202) 496-4038 [preproposals due July 1; proposals due November 1.]
- o neural computation of visual form. Contact (202) 696-4744 [full proposal due July 31.]

The address is: Office of Naval Research, 800 N. Quincy Street, Arlington, VA 22217.