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# Tobacco Industry Group Gives Research Grants



Timothy V. Hartnett

Fifty-two additional research grants for support of studies designed to give new leads to lung cancer and other health problems, and a further increase in available research funds were announced last week in New York by Timothy V. Hartnett, Chairman of the Tobacco Industry Research Committee.

The Scientific Advisory Board, which directs the T.I.R.C.'s research program, has now awarded 3788 grants—181 initial grants and 197 renewals—to independent scientists in some 90 medical schools, laboratories and hospitals throughout the country.

Mr. Hartnett said the committee also has appropriated an additional \$800,000 for its research fund, bringing the total to \$6,250,000. The T.I.R.C., organized in 1954 to support scientific research related to tobacco use, has periodically appropriated funds to finance all grants-in-aid recommended by the Scientific Advisory Board.

Dr. Clarence Cook Little, Scientific Director of the T.I.R.C., said 27 of the grants announced today were for new research studies the Advisory Board hopes will produce new approaches and information related to lung cancer and other ailments. Among the new grants are projects dealing with the following:

Causation of cancer by chemicals and viruses in germ-free animals.

Social and psychological aspects related to cigarette smoking.

Influence of certain environmental factors in the development of cancer in tuberculosis patients and in children.

Epidemiological factors in lung cancer.

Effects of nicotine on protein and amino acid metabolism in humans.

Vascular responses to tobacco smoking in patients with vascular disease.

Below is a list of the scientists re-

ceiving the T.I.R.C. grants, their institutions, and the titles of their projects.

Recipients of new T.I.R.C. research grants, their institutions, and the titles of their projects:

Anthony A. Albanese, Ph.D., Director, Nutrition and Metabolic Research Division, The Winifred Masterson Burke Relief Foundation, The Burke Foundation Rehabilitation Center, White Plains, N.Y. "The effect of nicotine on protein and amino acid metabolism in humans."

E. T. Angelakos, M.D., Ph.D., Associate Professor of Physiology, Department of Physiology, Boston University School of Medicine, Boston, Mass. "Release of catechol amines from the isolated heart."

Hylan A. Bickerman, M.D., Associate Clinical Professor of Medicine, and Alvan L. Barach, M.D., Retired Clinical Professor of Medicine, College of Physicians and Surgeons, Columbia University; Columbia Research Service, Goldwater Memorial Hospital, New York, N.Y. "Non-irritant cigarette smoking with observations on the carbon monoxide concentration of arterial blood and alveolar gas after smoking with inhalation and after non-inhalation smoking."

William G. Clark, Ph.D., Clinical Associate Professor, Department of Physiological Chemistry, University of California Medical Center, Los Angeles. "Effect of nicotine and related substances on amine levels in the nervous system."

Philip Cooper, M.D., Director, Surgical Laboratory of Cellular Physiology, Albert Einstein College of Medicine, New York, N.Y. "Study of the combined effect of injected viral agents and environmental factors (inhaling smoke and air pollutants) on the tracheo-bronchial tree and pulmonary parenchyma of experimental animals, and on tissues in organ culture."

Arthur Furst, Ph.D., Director, Institute of Chemical Biology, University of San Francisco, San Francisco, Cal. "A controlled study to evaluate the effect of administration of trace metals (with or without exposure to cigarette smoke) on the incidence of pulmonary adenomas in strain A mice."

George O. Gey, M.D., Director, Finney-Howell Cancer Research Laboratory; Associate Professor of Surgery, The Johns Hopkins University School of Medicine, Baltimore, Md. "Characteristics of normal cell growth in culture in relation to invasive carcinoma, especially in the lung."

Thomas M. Gocke, M.D., Associate Professor of Preventive Medicine and Community Health, Seton Hall College of Medicine and Dentistry, Jersey City, N.J. "A study of the nasal and pharyngeal bacterial flora of smokers, non-smokers and ex-smokers."

Ira Gore, M.D., Professor of Pathology, Boston University School of Medicine, Boston, Mass. "Interactions



of arterial acid mucopolysaccharides."

**Freddy Homburger, M.D.**, President and Director, Bio-Research Institute, Inc., Cambridge, Mass. "Systemic effects of three tobacco smoke condensates."

**George Jacobson, M.D.**, Professor and Head of Radiology, University of Southern California School of Medicine, Los Angeles. "The influence of certain environmental factors in the genesis of neoplastic disease in tuberculosis patients and in children."

**Arnold R. Kaplan, Ph.D.**, Director, Laboratory of Medical Genetics, Cleveland Psychiatric Institute and Hospital, Cleveland, O. "Examination of the extent of, and constitutional basis for, correlations between the following: (1) taste thresholds for quinine and 6-N-propylthiouracil, (2) constitutional predisposition to pathologic variables, (3) individual differences in smoking practices and food dislikes."

**Elihu Katz, Ph.D.**, Associate Professor of Sociology, The University of Chicago, Chicago, Ill. "Social and psychological constraints on the translation of motives into action: The case of cigarette smoking."

**Charles W. LaBelle, Ph.D.**, Assistant Professor of Environmental Hygiene, Department of Preventive Medicine, Jefferson Medical College, Philadelphia, Pa. "Effect of cigarette smoke on pulmonary clearance."

**Thomas C. Laipply, M.D.**, Professor of Pathology, Northwestern University Medical School; Chairman, Department of Pathology, Chicago Wesley Memorial Hospital, Chicago, Ill. "Classification, prognosis and etiologic factors of primary tumors of the lung."

**Cecilie Leuchtenberger, Ph.D.**, Senior Biologist and Chemist, Sias Memorial Laboratories, Brooks Hospital, Brookline, Mass. "The interrelation between influenza virus infections, exposure to cigarette smoke and other factors in the development of pulmonary and bronchial lesions in mice. (A correlated histological, cytological and cytochemical study of the tracheobronchial tree and lungs.)"

**Herbert L. Lombard, M.D.**, Cancer Research Institute, New England Deaconess Hospital, Boston, Mass. "Epidemiological factors in lung cancer."

**Victor A. McKusick, M.D.**, Professor of Medicine, The Johns Hopkins University School of Medicine, Baltimore, Md. "A study of Buerger's disease among the various Jewish ethnic groups in Israel."

**Morris Pollard, Ph.D.**, Director, Lo-bund Laboratory, University of Notre Dame, Notre Dame, Ind. "Chemical and viral carcinogenesis in the axenic ("germfree") animal."

**Martin S. Protzel, B.S., D.D.S.**, Chief, Department of Oral Pathology, Martland Medical Center, Newark, N.J. "A comparative study of the effects of 3-methylcholanthrene and cigarette smoke condensate applied to the oral tissues of Swiss mice (ICR) conditioned with alcohol and/or carbon tetrachloride."

**Walter Redisch, M.D.**, New York University Medical Center, New York, N.Y. "Vascular responses to tobacco smoking in patients with vascular disease."

**Ernest Sondheimer, Ph.D.**, Associate Professor of Biochemistry, State University College of Forestry and Syracuse University, Syracuse, N.Y. "The

purification and structure determination of the chlorogenic acid isomers."

**C. Harold Steffee, M.D.**, Director of Laboratories, Methodist Hospital, Memphis, Tenn. "Studies of carcinogenesis in mice."

**James E. P. Toman, Ph.D.**, Associate Professor of Physiology and Pharmacology, Chicago Medical School, Chicago, Illinois. "Mechanisms of the Psychotropic effects of nicotine."

**Simon H. Wender, Ph.D.**, Research Professor, Department of Chemistry, University of Oklahoma, Norman. "The identification of individual polyphenolic compounds present in the smoke from cigarettes and the preparation, where feasible, of these compounds for studies on their metabolism and possible effect on human health."

**Duane G. Wenzel, Ph.D.**, Professor of Pharmacology, School of Pharmacy, University of Kansas, Lawrence. "A study of central actions of nicotine."

**Recipients of T.I.R.C. renewal grants, their institutions, and the titles of their projects:**

**Clarence M. Agress, M.D.**, Associate Clinical Professor of Medicine, University of California Medical Center, Los Angeles. "The measurement of the functional status of the human heart by frequency spectrum analysis of its vibrational energy."

**Stephen M. Ayres, M.D.**, Director of Research, Department of Pulmonary Physiology, St. Michaels Hospital, Newark, N. J. "Measurement of alveolar-arterial nitrogen difference by gas chromatography."

**Ralph S. Becker, Ph.D.**, Associate Professor of Chemistry, University of Houston, Houston, Tex. "An investigation of the spectral and chromatographic characteristics of aromatic hydrocarbons."

**Samuel Bellet, M.D.**, Director, Division of Cardiology, Philadelphia General Hospital, Philadelphia, Pa. "Effect of nicotine on various parameters of cardiovascular function."


**Richard J. Bing, M.D.**, Professor and Chairman, Department of Medicine, Wayne State University College of Medicine, Detroit, Mich. "1. The measurement of coronary blood flow with a system using coincidence counting. 2. Studies on cardiac metabolism with special reference to myocardial anoxia."

**Jay D. Coffman, M.D.**, Instructor in Medicine, Massachusetts Memorial Hospitals, Boston, Mass. "The effect of tobacco smoking on nutritive skeletal muscle blood flow as determined by the radioisotope disappearance technique."

**Edward F. Domino, M.D.**, Associate Professor of Pharmacology, Department of Pharmacology, University of Michigan Medical School, Ann Arbor. "Effects of tobacco smoke and nicotine on the central nervous system."

**Frederic A. French, A.B.**, Director of Cancer Chemotherapy Research, Mount Zion Hospital and Medical Center, San Francisco, Cal. "Completion of current anti-carcinogenicity and multi-generation studies."

**Ebbe Curtis Hoff, Ph.D., M.D.**, Chairman, Department of Neurological Science, Medical College of Virginia, Richmond. "Cerebral autonomic changes produced by tobacco smoke, nicotine or (Please turn page)



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## TIRC Research Grants

(Continued from page 21)

cotinine, a metabolite of nicotine."

**Freddy Homburger, M.D.**, President and Director, Bio-Research Institute, Inc., Cambridge, Mass. "Studies on carcinogens and carcinogenesis."

**Robert W. Hull, Ph.D.**, Associate Professor, Department of Biological Science, Northwestern University, Evanston, Ill. "Photodynamic activation of carcinogenic hydrocarbons: A. Standardization of assay techniques utilizing protozoa. B. Investigation of the mechanisms of activation and response to aromatic carcinogens by protozoa."

**Robert A. Kuhn, M.D.**, Associate Professor of Neurology and Neurosurgery, New York Medical College, New York, N. Y. "Effects of tobacco upon cerebral circulation."

**Paul S. Larson, Ph.D.**, Professor of Pharmacology, Medical College of Virginia, Richmond. "1. The possible effect of tobacco smoke and nicotine on ascorbic acid metabolism. 2. Abstracting and classifying the literature on the biologic effects of tobacco."

**Gustave A. Laurenzi, M.D.**, Assistant Professor of Medicine, Seton Hall College of Medicine Medical Center, Jersey City, N. J. "Studies in bronchitis. A correlated investigation of: (a) the effect of smoking on the bacteriology of the respiratory tract of humans, and (b) the effect of cigarette smoke and sulfur dioxide (air pollutant) on the clearing of bacteria from the respiratory tracts of small animals (mice, rats)."

**Esten O. Lindseth, M.D.**, Veterans Administration Hospital, Minneapolis, Minn. "Measurement of the differential blood flow in the mammalian lung during the acute period of smoke inhalation, using the open chest animal and the method and principle of gamma emitting radioactive graded microspheres."

**J. P. Long, Ph.D.**, Associate Professor, Department of Pharmacology, State University of Iowa, College of Medicine, Iowa City. "Vascular actions of nicotine."

**Forde A. McIver, M.D.**, Assistant Professor of Pathology, Medical College of South Carolina, Charleston. "Environmental factors and pulmonary disease. 1. Asbestos Dust."

**Herbert McKennis, Jr., Ph.D.**, Professor of Pharmacology, Medical College of Virginia, Richmond. "Enzymatic transformations of nicotine and related compounds."

**P. O'B. Montgomery, Jr., M.D.**, Professor of Pathology, University of Texas, Southwestern Medical School, Dallas. "Investigation of nucleolar changes produced by chemical carcinogens."

**Donald M. Pace, Ph.D.**, Professor of Physiology, University of Nebraska, Lincoln. "To study the effects of certain constituents of tobacco smoke on tissue cells cultivated *in vitro* especially to investigate tolerance phenomena in cells (human lung, skin, strain L, liver)."

**Edward W. Pelikan, M.D.**, Associate Professor, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, Boston, Mass. "Pharmacologic analysis of the mechanisms by which nicotine

alters synoptic transmissions."

**H. R. Pratt-Thomas, M.D.**, Dean and Professor of Pathology, Medical College of South Carolina, Charleston. "Carcinogenesis in the laboratory animal: A comparison of species response to standardized sites of application."

**Peter F. Salisbury, M.D., Ph.D.**, Head Intensive Treatment Center, St. Joseph Hospital, Burbank, Cal. "Influence of nicotine and catecholamines upon coronary vasomotor tonus in normal and atherosclerotic dogs."

**Jack P. Strong, M.D.**, Associate Professor of Pathology, Louisiana State University School of Medicine, New Orleans. "Relationship of smoking, alcohol and physical activity to coronary atherosclerotic lesions."

**Shields Warren, M.D.**, Director of Laboratories, Cancer Research Institute, New England Deaconess Hospital, Boston, Mass. "The production of lung cancers histologically similar to those of man, in rats, hamsters and rabbits."

**Roger J. Williams, Ph.D.**, Professor of Chemistry and Director, Clayton Foundation, Biochemical Institute, The University of Texas, Austin. "An investigation of chemical factors associated with susceptibility to lung cancer."

## Tobacco Distributor

### Sales Up Six Per Cent

WASHINGTON, D.C.—The nation's tobacco distributors had sales six per cent better for 11 months of 1962 than for the corresponding 1961 period, Bureau of Census reports this week.

November sales were unchanged from the previous month but were seven per cent higher than for a year earlier. Regionally, the report showed;

New England, 11 months' sales, up six per cent, but down five per cent in November from October, and for November, up two per cent from a year earlier;

Middle Atlantic, up six per cent for 11 months, unchanged in November from October, but seven per cent higher than a year ago; South Atlantic, 11 months' sales up six per cent, and changes not shown for other periods; East South Central, up six per cent for 1962; down four per cent in November from October, but sales for November up 11 per cent from the same month in 1961.—SAND.

## ICC to Hold Proposed

### Tobacco Rate Hearings

WASHINGTON, D.C. — Interstate Commerce Commission has decided to hold hearings on proposed rates on cigarettes and tobacco between Greensboro, N. C. and Louisville, Ky., with the date to be announced.