MESSAGE FROM THE DIRECTOR

This is our twenty-first annual report to all of those whose support makes possible work at the Cornell Research Laboratory for Diseases of Dogs. Although many of you have visited the Dog Laboratory from time to time, it is, of course, impossible for every one of you to do so. In order to describe briefly and informally some of the work that is being done here for dogs, this report to the donors is prepared.

At the time the Dog Laboratory began operation twenty-one years ago, the hope was expressed that it could become the first permanent research center for the study of problems of dogs. Buildings were designed and equipped specifically to allow modern and precise work by specialists trained in a number of different fields of science. At the present time, there are working in the Dog Laboratory specialists in bacteriology and virology, biochemistry, nutrition, ophthalmology, serology and immunology, and electron microscopy.

All important problems are planned in consultation with Dr. Robson, professor of biometrics and statistics, in order that statistically valid results will be obtained. This insures that a sufficient number of studies are performed and also prevents needless and expensive repetition of tests. The diversity of specialists, their findings, and training have allowed important correlations and comparisons to be made. Close cooperation is maintained by frequent staff meetings and consultations.

During the past winter, which was unusually severe in this section of New York State, maintenance problems occurred. The roof is being replaced and damage is being repaired.
Dr. Carmichael, a virologist, has worked in close cooperation with Dr. Lust, a biochemist, on some aspects of canine herpesvirus. After isolating the virus and growing it successfully in tissue culture, Dr. Carmichael noted that the virus did not multiply and infect new cells at temperatures of 104°F (40°C). Dr. Lust began biochemical studies of the mechanism concerned in temperature interference with herpesvirus multiplication.

Dr. Hugh Davies is assisting in some phases of the herpesvirus studies and in other problems. His preliminary findings, as yet unpublished and incomplete, seem to be of exceptional value to the understanding of viruses.

Dr. Lust has made progress on understanding some of the biochemical changes associated with hip dysplasia, especially those found in protein metabolism and collagen in the hip joints. This work was done in cooperation with other staff members of the Dog Laboratory and of the N. Y. State Veterinary College in order to include electron microscope studies, nutritional work, and X-ray findings. Osteoarthritis also is receiving attention.

Last year, in the popular press, there was much discussion concerning highly beneficial results of vitamin C on the common cold in man. Suggestions were made that it might prove equally useful for dogs with respira-
tory diseases. Dr. Sheffy, a nutritionist, and Dr. Appel, a virologist and electron microscopist, with the assistance of Dr. Carmichael, worked together in analysis, at cellular level, of the possible effects of vitamin C on respiratory viral infections of dogs. There were no detectable effects, either beneficial or adverse, to be noted in dogs from this particular vitamin.

Dr. Sheffy also has cooperated with staff members of the N. Y. State Veterinary College in studies concerning the need for calcium in canine nutrition. The conclusion was made that dogs should have adequate quantities of calcium in their diet.

The brain damage that can sometimes follow canine distemper infection in unvaccinated dogs is being analyzed by Dr. Appel to determine whether it is an autoimmune reaction or results from direct effects of distemper virus on the cells.

Dr. Appel is studying protection of dogs against infectious canine hepatitis, or, as it now is classified, canine adenovirus-type 1 (CAV-1). The relationships between CAV-1 and CAV-2 were studied by Dr. Marilyn Menegus as a basis for the Ph.D. degree in virology, under the direction of Dr. Appel and Dr. Norcross, an immunologist on the staff of the N. Y. State Veterinary College. CAV-2, which seems to be implicated in the infectious disease of dogs commonly known as "kennel cough", seems to be restricted to surface tissues that line the respiratory and intestinal tracts.

Some of this work has contributed to better understanding of the heterotypic immunological protection given against distemper by measles virus, which continues to be an important problem in our laboratory. Some of our original work has been repeated and confirms again that measles gives desirable protection against canine distemper when vaccinated as early as three weeks of age. Measles vaccine inhibits ability of distemper virus to multiply when measles is given before exposure to distemper occurs. Early protection is essential against distemper virus, because of the ability of this, and certain other viruses, to grow in various organs and cells of the body, and cause both immediate and future damage.

In a large kennel that has cooperated with our laboratory for many years, careful records have been kept of vaccinations, breedings, and other data of interest. Some of these dogs are now the third generation of puppies to have received measles vaccine at two to three weeks of age, followed, of course, by distemper vaccine at later dates. Maternal antibodies from measles vaccine that might occasionally be passed by a very young mother, bred before one year of age, to her first litter of puppies have caused no problems.
With grant funds for 1970-71 from the Seeing-Eye Foundation, Dr. Bistner, an ophthalmologist, in cooperation with Dr. Carmichael, began an analytical study of effects caused by CAV-1 (infectious canine hepatitis virus) on the eye. In addition to its recognized persistence in the kidney, CAV-1 was seen to cause pathology of the eye not fully understood heretofore, although the "white eye" often was noted as an indication that infection had occurred. The condition seems to be a sensitivity reaction between antibody and virus in the eye. Dr. Bistner has been requested to conduct a workshop for the American Society of Ophthalmology on visual impairment caused by CAV-1, with the thought that adenoviruses which infect human beings sometimes may cause a similar effect.

On June 1, 1971, Dr. Gustavo Aguirre became a member of the staff of the Dog Laboratory. He has specialized in ultrastructure of the eye, and will investigate eye defects of genetic or infectious origin. He also will cooperate with Dr. Carmichael and Dr. Bistner on problems of the eye caused by adenoviruses.

Dr. Lisle George, who served as a bacteriologist at the local hospital, has, during this past year as a senior in the N. Y. State Veterinary College, worked part of the time on canine brucellosis at the Dog Laboratory. He now has joined our staff as a graduate assistant under the direction of Dr. Carmichael, who originally isolated and identified Brucella canis. A new laboratory is being equipped for Dr. George to continue his work.

A section of the Control Laboratory is being remodeled to allow installation of x-ray equipment provided by the Allen Products Company, Inc. These new facilities will be used for studies in nutrition, hip dysplasia, and osteoarthritis.
In appreciation. For their exceptional interest in the Institute, we would like to express appreciation to the following supporters: Mr. Victor H. Anderson, Mr. and Mrs. Boyce Bailes, Dr. James P. Childress, Jr., Dr. Louis A. Corwin, Sr., Mr. Al Dick, Mr. and Mrs. Gaylord Donnelley, Mrs. N. Clarkson Earl, Dr. Lyman R. Fisher, Dr. Kenneth I. Gumaer, Mr. and Mrs. E. Roland Harriman, Mrs. Dorothy B. Howe, Mr. John Lafore, Mr. James A. Moffett, Dr. Arthur F. North, Jr., Mrs. Ann W. Olin, Mr. John M. Olin, Mr. Spencer T. Olin, Mrs. Vincent F. Wilcox, Mr. Robert W. Woodruff, and Mrs. Virginia Wooley.

More kennel clubs than before are supporting the Dog Laboratory, with increased recognition of the value of its work for dogs. With increased support, there is a corresponding increase in work.

Financial support. In order to establish an investigative unit, the general rule of laboratory management suggests employment of an investigator with four support personnel (ratio 1:4), at a cost of $50,000 to $60,000 per year. Our Laboratory has nine investigators, with a ratio of 1:3.3, at a cost of $49,100 per unit. This lower ratio is a compliment to the efficiency and cooperation among the technical staff.

Income and expenditures are in acceptable balance.

INCOME

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*Surplus

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*Surplus. To assure donors of funds for research for dogs that their funds will support such research, if not in the current year then afterwards, the Cornell University Board of Trustees made a provision for disposal of excess income as follows: "The Institute's income is in excess of its operating expense and the balance of the funds is added to the Institute's Endowment".
VIRUS RESEARCH INSTITUTE STAFF

JAMES A. BAKER, B.S., M.S., Louisiana State University; D.V.M., Ph.D., Cornell. Professor of Virology and Director of the Institute.

BEN E. SHEFFY, B.S., M.S., Ph.D., Wisconsin. Caspary Professor of Nutrition and Assistant Director of the Institute.

ADMINISTRATION

DUDLEY BAKER, (Mrs. James A. Baker), Louisiana State University, Editor of Publications. (Mrs. Baker was appointed to this position in 1951 and has served since that time without salary, as a personal contribution to the Institute.).

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MARY L. O'BRIEN, Account Clerk.

JEAN REINBOLD, B.S., Elmira College, Cornell. Administrative Aide.

ANN W. SIGNORE, Cornell. Secretary.

HADLEY C. STEPHENSON, B.S., D.V.M., Cornell. (Professor Emeritus of Veterinary Therapeutics and Small Animal Diseases), Veterinary Consultant.

MAINTENANCE

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ERIC G. SCHANO, Technical Assistant.

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FRANK SEARS, Building Maintenance Supervisor.

NICHOLAS SWADER, Animal Technician.

LLOYD TOTMAN, Animal Technician.

MICHAEL VAUGHN, Animal Technician.

EDSON WHEELER, Senior Mechanician.

MICROBIOLOGY LABORATORIES

LELAND E. CARMICHAEL, A.B., D.V.M., California; Ph.D., Cornell. John M. Olin Professor of Virology.

DOUGLAS H. DAVIES, B.V.S., Massey University, New Zealand. Graduate Research Assistant.

JEAN C. JOUBERT, Laboratory Technician.

VIVIAN MORGAN, Laboratory Assistant.

PAMELA F. NATOWSKY, B.A., Cornell. Laboratory Technician.

ELIZABETH POYER, Corning Community College. Laboratory Assistant.


SUSAN RODMAN, B.A., University of North Carolina. Laboratory Technician.

ELIZABETH WHEELER, Laboratory Assistant.
SPECIAL LABORATORIES

Brucellosis Laboratory (Operating Funds Provided by the American Kennel Club):
LISLE GEORGE, B.S., Pennsylvania State University; D.V.M., Cornell. Research Assistant.
CAROL V. LIGHTSEY, B.S., Colorado State University. Laboratory Technician.

Colgate Division for Tissue Culture (Established originally by the late Miss Adele S. Colgate):
RANDA BEST, R.N., Robert Packer Hospital. Laboratory Technician.
FREDERICK A. HINMAN, B.A., Ithaca College. Laboratory Technician.

Ophthalmology Laboratories (Grant for operation provided for 1970-71 by Seeing-Eye Foundation):
Daynemouth Division (Established originally by the late Colonel and Mrs. Lee Garnett Day):
SAMUEL L. SLAUGHTER, Ithaca College. Laboratory Technician.

Giralda Division (Established originally by Mrs. Geraldine Rockefeller Dodge):
S. I. BISTNER, B.S., Rutgers; D.V.M., Cornell. Assistant Professor Comparative Ophthalmology, Dept. of Small Animal Medicine.
LENORA S. SAMMONS, B.S., Pennsylvania State University. Laboratory Technician.

Oswald R. Jones Laboratory (Established in honor of the late Dr. Oswald R. Jones):
MARILYN A. MENEGUS, B.S., College of St. Elizabeth; Ph.D., Cornell. (Requirements completed) Research Assistant. On August 1, 1971 became Virologist, St. Luke's Hospital, New York City.
MAX J. G. APPEL, D.V.M., University of Hannover; Ph.D., Cornell. Associate Professor of Microbiology.
SONDRA BURDA FIDLER, Auburn Community College. Laboratory Technician.
DEBRA SHERMAN, B.S., University of Pittsburgh; M.S., University of Chicago. Electron Microscope Technician.

Biochemistry Laboratory (Provided by Mr. John M. Olin):
GEORGE LUST, B.S., University of Massachusetts; Ph.D., Cornell. Assistant Professor of Biochemistry.
WALTER PRONSKY, B.S., Cornell. Laboratory Technician.

COOPERATING STAFF

(These doctors of veterinary medicine, physicians, and scientists in various parts of the United States are contributing much time and effort, without compensation, in order to help secure necessary information on which to base programs for control of infectious diseases.)

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PUBLICATIONS FROM THE VETERINARY VIRUS RESEARCH INSTITUTE

Publications for the first ten years were listed in the Institute Report for 1960. Those for each following year were listed in its annual report. Since 1960, we have numbered articles consecutively. Some of the following numbers were listed in previous years' reports as "accepted" or "in press". They are repeated this year, with their original numbers, in order to record the proper volume and page references. Articles numbered 260-268 are those completed during the past year.


ACKNOWLEDGMENTS

The Cornell Research Laboratory for Diseases of Dogs gratefully acknowledges gifts received from our contributors from September 1, 1970 to September 1, 1971 in support of our research program.

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Dr. William N. Young, Jr.
VETERINARIANS

We are especially pleased at the prompt response from members of the veterinary profession to a recent suggestion from Dr. Stephenson that they pledge support for one of the units of the Laboratory. Their names, designated in the following list by the initials R.P. (Research Partner), will be inscribed permanently upon a permanent plaque in the Library of the Institute, as are those of our founders and long-time supporters.

Dr. Morton Aaronson  
Dr. Russell N. Abbott  
Dr. Leon Abrevaya  
Dr. William H. Adolph  
Dr. Stanley M. Aldrich  
Dr. George R. Alfsen  
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Dr. David F. Anderson  
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Dr. Elmore L. Andrews, Jr.  
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Top — The Finger Lakes Kennel Club, meeting in the Library of the Dog Laboratory, presents a check for $500 to Dr. Baker. Shown in the above photograph are Mr. Fiore, President of the Club, Mrs. Speed, Secretary, Dr. Fisher, founder of the Finger Lakes Club, Mrs. Hammond, Program Director, Mrs. Redline, Treasurer, and Dr. Baker.

Right — President Abe Koblintz, of the Albany, N.Y. Kennel Club, shows continuous support and approval of work at the Dog Laboratory by presenting their check for $500 to Dr. James A. Baker.

Bottom — In honor of Dr. Bernard Nilles (Cornell '66), the Sand and Sea Kennel Club Inc., of New Jersey, presents him with a check for $500 for transmission to the Dog Laboratory at Cornell. Shown in the photograph are Mrs. Morrison, Dr. Nilles, Mrs. Taylor, Mrs. Sutton, and Mr. Hall.
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