This book may be kept

SEVEN DAYS

A fine will be charged for each day the book is kept overtime.
MESSAGE FROM THE DIRECTOR

Our 22nd Annual Report has been prepared to give a brief but complete report of progress made during the past year to those whose support makes possible all work at the Cornell Research Laboratory for Diseases of Dogs.

The year has been one of growth in our research program. In this report are listed 22 projects, some recently initiated, others nearing completion. Under Publications are listed 20 new papers that represent completed work.

The Research Program: Each investigator concentrates on problems occurring in dogs that his particular training can solve. Their projects are listed here by title and grouped according to the training necessary to solve the particular type of problem involved. Some projects, however, are not easily classified and require a complex approach. In these instances several investigators will cooperate.

A litter of Labrador puppies helping to solve the problem of hip dysplasia.
I. Infectious Diseases Caused by Viruses.
   Respiratory Infections in Dogs.
   Use of Microplates for Serum Neutralization and Virus Titration of Canine Viruses.
   Autoimmune Allergic Encephalomyelitis in Dogs.
   Study on the Pathogenesis in Dogs of Attenuated ICH Virus in Comparison with Toronto A26/61 Virus.
   Protection Against Distemper Given by Measles Virus.
   Factors Affecting Pathogenicity and Persistence of Canine Herpesvirus (CHV) in Dogs.
   Identification and Characterization of an Inhibitor of Infectious Canine Hepatitis Virus in Liver Extracts.

II. Infectious Diseases Caused by Bacteria.
   Studies of Immunity to Brucella canis.

III. Ophthalmology. Conditions Caused by Genetic Inheritance.
   Rod Dysplasia in Norwegian Elkhounds.
   Neurofibrillar Degeneration of the Retinal Cones in Hemeralopic Dogs.
   The Rod and Cone Contribution to the Canine Electroretinogram.
   Progressive Retinal Atrophy in the Miniature Poodle.
   The Development of the Canine Eye.

IV. Ophthalmology. Conditions Caused by Infectious Diseases.
   Ocular Effects of Infectious Canine Hepatitis (CAV-1).

   Calcium in Canine Nutrition.
   Comparative Study of Nutritional Adequacy of All Meat and Conventional Dog Foods.
   Carbohydrate Requirements of Dogs.

VI. Nutrition. Vitamin Effects.
   Effect of Vitamin C on Host Response to Infectious Disease.
   Chronic Vitamin D Toxicity in Dogs.

VII. Biochemistry of Hip Dysplasia.
   Studies on Pectineus Muscles in Canine Hip Dysplasia.
   A Study of Environmental Factors on Development of Hip Dysplasia in Dogs.
   Biochemical and Structural Changes in Articular Cartilage of Dogs with Degenerative Joint Disease and Hip Dysplasia.
Dr. Gustavo Aguirre with a storage tube oscilloscope. This equipment is used to measure the retinal responses of dogs suspected of having Progressive Retinal Atrophy. Dogs with Progressive Retinal Atrophy will show a response different from normal.

A. Response from a normal dog.
B. Response from a PRA affected dog 9½ weeks of age.
C. Response from a PRA affected dog 4 years of age.

Dr. Stephen Bistner, a canine ophthalmologist, and Dr. Leland Carmichael, a virologist, assisted by Mrs. Lenora Sammons, technician, have cooperated in a study of the effects of ICH virus on the eye. This important study has added greatly to our knowledge of how a virus can damage eyes. Another adenovirus, CAV-2, has been studied and found not to affect the eye. Because CAV-2 protects against ICH, which damages eyes, a modification in our present vaccine program has become possible.
Education: After the Laboratory was established in 1950, a series of laboratory reports was prepared and distributed. At that time they were well received. During this past year dissemination of information by this means has been revived. Two laboratory reports of this second series have been produced. Discussion of canine brucellosis was selected as the topic for Report No. 1 because it is considered to be a major infectious disease problem of dogs. This report, entitled "Canine Brucellosis," has been sent to each individual supporter, and, in quantity, to each club for distribution to every member. Clubs not supporting the Laboratory have been informed of the new program and invited to join in supporting our work. Many have done so.

Investigations preliminary to Report No. 2, entitled "Progressive Retinal Atrophy," were conducted in the newly established canine ophthalmology division. This report has been mailed recently.

Report No. 3, in preparation for distribution later this year, will discuss current information on canine nutrition.

A picture taken at Nilo Kennels, owned by Mr. John M. Olin (center), with Dr. Baker (left), and Mr. Russell R. Casteel. Mr. Olin, through his support of research and of the OFA Program, has been instrumental in developing measures to control hip dysplasia.
In Appreciation: There has been increased support of the Laboratory by dog clubs, both in number and in the amount of their support. This increase was anticipated because of our new educational policy of disseminating information through our Laboratory Reports. Also, remarkable response has been forthcoming from veterinarians. Individual supporters have continued their basic interest, which founded the Cornell Research Laboratory for Diseases of Dogs. For their exceptional interest in the Institute, we should like to express appreciation to the following supporters: Mrs. Boyce Bailes, Dr. J. Keith Benedict, Mr. and Mrs. Gaylord Donnelley, Dr. Joseph B. Engle, Dr. Lyman R. Fisher, Miss Gladys Freeman, Dr. Henry E. Grossman, Dr. Kenneth I. Gumaer, Mr. and Mrs. E. Roland Harriman, Mrs. Dorothy B. Howe, Mrs. Oswald R. Jones, Dr. Grant Kaley, Mr. and Mrs. John Lafore, Mr. James A. Moffett, Dr. Arthur F. North, Jr., Mrs. Ann W. Olin, Mr. John M. Olin, Mr. Spencer T. Olin, Dr. Cornelius Thibeault, Mrs. Vincent F. Wilcox, Mr. Robert W. Woodruff, and Mrs. Virginia Wooley.

Dr. James A. Baker, Mr. James G. Schmoyer, Vice President, Allen Products Company, Dr. Ben E. Sheffy, and Mr. Ray Mulligan, President, Allen Products Company, in front of X-ray machine given to the Institute by the Company as part of a $157,000 grant for basic studies in nutrition.
Financial Situation: Inflation, characterized by increased costs of dog food, laboratory supplies, general maintenance, and salaries, makes financial planning difficult. Last year it was necessary to use reserve funds to meet current expenses and to activate plans for future research to be made possible by legislation granting 10 cents from each New York State dog license fee to the Laboratory for the purpose of research to benefit the health of dogs. With these additional funds, a balanced budget for 1972-73 should be possible.

### Financial situation July 1, 1971-June 30, 1972

**FUNDS AVAILABLE**

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<th>Source</th>
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<td>Contributions and earnings budgeted</td>
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<td>State of New York Support</td>
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<td>Federal Grants</td>
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<td>Seeing Eye Foundation Grants</td>
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**EXPENDITURES**

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<td>Operational Costs</td>
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<td>X-ray Room (Non-recurring expense)</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$583,218.00</strong></td>
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Reserves used to balance budget $108,715.00

To assure donors of funds for research for dogs that their funds will support such research, currently or in the future, 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."
Members of the family of the late Dr. Oswald R. Jones at the dedication of the Virology Laboratory established in his honor.
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

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FLORENCE C. HUTH, Secretary.
MARY L. O'BRIEN, Account Clerk.
JEAN REINBOLD, B.S., Elmira College; Cornell. Administrative Aide.
ANN W. SIGMORE, Cornell. Secretary.
HADLEY C. STEPHENSON, B.S., D.V.M., Cornell. (Professor Emeritus of Veterinary Therapeutics and Small Animal Diseases), Veterinary Consultant.

MAINTENANCE

CHARLES BAILOR, Animal Technician.
PAUL BELDEN, B.S., Cornell. Laboratory Technician.
CLARENCE CAPLE, Farmer.
BERNARD L. CLARK, Research Technician.
JAMES HARDY, B.S., Cornell. Research Technician.
GERALD HILDER, Animal Technician.
ELDON MEAD, Mechanic.
CARL SEARS, Experimentalist. (Retired May 31 after 40 years of service.)
FRANK SEARS, Building Maintenance Supervisor.
NICHOLAS SWADER, Animal Technician.
LOYD TOTMAN, Animal Technician.
MICHAEL VAUGHN, Maintenance Helper.
EDSON WHEELER, Senior Mechanic.

MICROBIOLOGY LABORATORIES

CHARLES A. BANTA, B.S., Pennsylvania State University; M.S., Cornell. Research Assistant.
LELAND E. CARMICHAEL, A.B., D.V.M., California; Ph.D., Cornell. John M. Olin Professor of Virology.
JEAN C. JOUBERT, Laboratory Technician.
BEVERLY S. MEDIC, B.S., Pennsylvania State University. Laboratory Technician.
VIVIAN MORGAN, Laboratory Assistant.
SUSAN RODMAN, B.A., University of North Carolina. Laboratory Technician.
ELIZABETH WHEELER, Laboratory Assistant.
ALMA WILLIAMS, B.A., Pennsylvania. Laboratory Technician.
SPECIAL LABORATORIES

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.

Brucellosis Laboratory (Operating funds provided by the American Kennel Club):
LISLE GEORGE, B.S., Pennsylvania State University; D.V.M., Cornell. Research Assistant.
CHI-KUANG KING, B.E., National Taiwan Normal University; M.S., Winthrop College. Laboratory Technician.

Colgate Division for Tissue Culture (Established 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 (Operating funds for 1971-72 provided by grant from Seeing Eye Foundation):
Daynemouth Division (Established by the late Colonel and Mrs. Lee Garnett Day):
LINCOLN S. ADAMS, B.S., Hobart College. Laboratory Technician.
GUSTAVO D. AGUIRRE, V.M.D., University of Pennsylvania. Research Associate.
ELIZABETH D. SPALDING, B.S., Cornell. Laboratory Assistant.
Giralda Division (Established by Mrs. Geraldine Rockefeller Dodge):
DANIEL M. ALBERT, M.D., Yale University School of Medicine. Consultant in Eye Pathology.
STEPHEN I. BISTNER, B.S., Rutgers; D.V.M., Cornell. Associate Professor Comparative Ophthalmology, Dept. of Small Animal Medicine.
JEAN E. BOLTON, Laboratory Assistant.

Oswald R. Jones Laboratory (Established in honor of the late Dr. Oswald R. Jones):
D. HUGH DAVIES, B.V.S., Massey University, New Zealand. Research Assistant.
SUSAN G. ELY, B.A., Keuka College. Laboratory Technician.

Richard King Mellon Electron Microscopy Laboratory (Provided by Mellon Foundation):
MAX J. G. APPEL, Dr. med. vet., University of Hannover; Ph.D., Cornell. Associate Professor of Microbiology.
NINA Y. LIANG, B.S., National Tsing Hua University, Taiwan; M.S., Duquesne University. Laboratory Technician.
HELEN A. WILTBERGER, B.S., M.S., Ph.D., Cornell. Experimentalist.

COOPERATING STAFF

These doctors of veterinary medicine 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.

BALDWIN KING, JR., D.V.M., Albany, Georgia.
WALTER D. MARTIN, JR., D.V.M., Albany, Georgia.
CLARENCE C. SAPP, JR., D.V.M., Albany, Georgia.
THOMAS L. SHORE, D.V.M., St. Louis, Missouri.
H. GRADY YOUNG, D.V.M., Thomasville, Georgia.
LEON YOUNG, D.V.M., Thomasville, Georgia.
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 articles have been numbered 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 volume and page references. Articles numbered 269-288 are those completed during the past year.


Members of the Southern Tier Veterinary Medical Association hold their fall meeting at the Veterinary Virus Research Institute. Afterward they toured the laboratories and discussed work in progress with the staff.
ACKNOWLEDGMENTS

The Cornell Research Laboratory for Diseases of Dogs gratefully acknowledges gifts received from our contributors from September 1, 1971 to September 1, 1972 in support of our research program.

INDIVIDUALS

<table>
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<tr>
<th>Contributors</th>
<th>Acknowledgments</th>
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<tr>
<td>Mrs. Grace E. Allen</td>
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<td>Miss Mildred Allen</td>
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<td>Mrs. Allen and Mrs. Kanze (Friends of Pauline)</td>
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<td>Miss Rosemarie Antonelli</td>
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<td>Mr. Francis R. Appleton, Jr.</td>
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<td>Mrs. Stevens Baird</td>
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<td>Mr. and Mrs. W. Noyes Baker, Jr.</td>
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<td>Mrs. Selwyn G. Bandes</td>
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<td>Mrs. Marjorie M. Brandt</td>
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<td>Mr. G. Miller Breed</td>
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<td>Mrs. Marilyn Brusie (In Honor of Doctors Henry E. Grossman and Gary M. Cane)</td>
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<td>Mrs. H. Driscoll Cain</td>
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<td>Miss Lila Cantor</td>
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<td>Miss Mertie Van B. Davis</td>
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<td>Dr. John W. Draper</td>
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<tr>
<td>Mr. Charles F. Elmes</td>
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INDIVIDUALS (Cont.)

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Miss Martha Melekov
Mr. Albert Merkle
Mr. Richmond F. Meyer
Mrs. Eugene Meyers
Mr. John Meyers
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Mr. Robert Miller
Mr. J. A. Moffett
Mr. Samuel Molien
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Mrs. Holly Moser
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Mr. W. L. Newhall
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Mr. and Mrs. H. W. Nichols, Jr.
Miss Laura Niles
Mrs. Emily A. Nordfeldt
Mr. Jean Oging
Mr. John M. Olin
Mr. and Mrs. Spencer T. Olin
Mrs. Edward L. Oppenheimer
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Dr. and Mrs. Irwin R. Pahl
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Top. President of the Finger Lakes Kennel Club, Mr. James C. Howard (right), presenting Dr. Baker with a check for $1,000. This sum represents a doubling of its usual support.

Right. Mrs. Nell Wall, treasurer of the Throna-teeska Kennel Club of Albany, Georgia, presents a check for $1,000 to Dr. Baker. On the left is Mr. Jimmy L. Phillips, club president. This club has been a most generous supporter of the laboratory from its beginning.

Bottom. Mrs. Carol A. Strong, president of the Onondaga Kennel Association of Syracuse, New York, presents a check for $500 to become a new supporter. Dr. Bistner and Dr. Aguirre of the Ophthalmology Division were present on this occasion.
The Eastern Irish Setter Association, Inc.  
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Mrs. William H. Long, Jr.

Mrs. William H. Long, Jr., until her death this past year, maintained an active interest in promoting the health and welfare of dogs. The Long Island Kennel Club has shown appreciation of her work as its President, and later as Chairman of the Board, by donating a perpetual trophy for Best in Show in her memory. Her kennel, Noranda, in which she bred Collies, has become known throughout the world. She was one of the founders of Dogs for Defense during World War II and later worked with the Buddy program for blind children. For many years she has supported the Cornell Research Laboratory for Diseases of Dogs.

Listed below are the names of those who have honored her by contributing in her memory:

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