

THE INSTITUTE REPORT

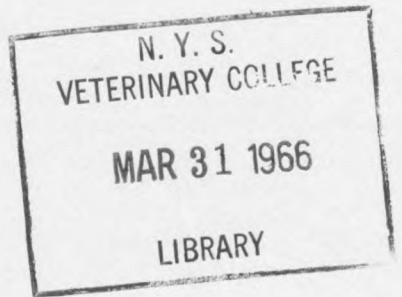


From the
VETERINARY VIRUS RESEARCH INSTITUTE
Cornell University, Ithaca, New York

September, 1965

Volume 15

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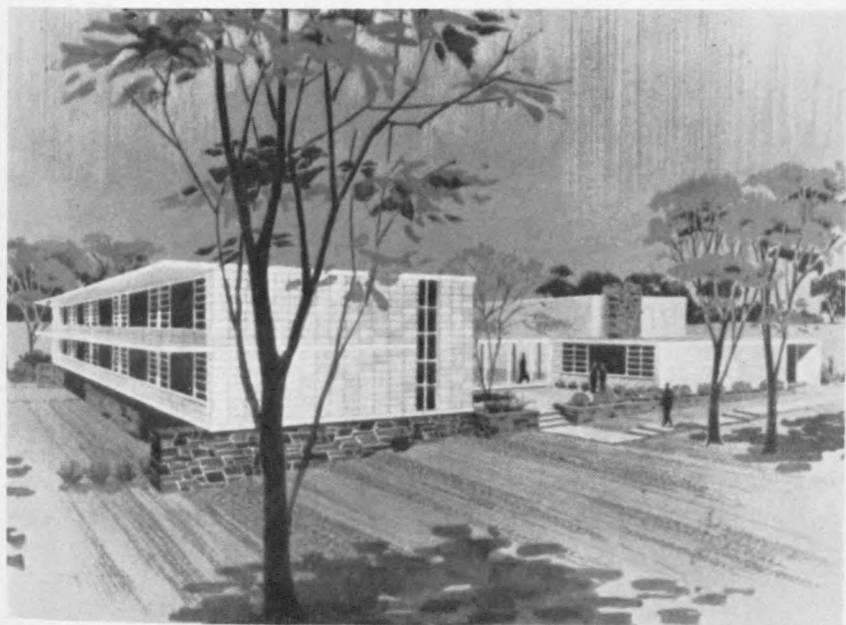
REPORT OF THE DIRECTOR

TO THE FOUNDERS AND SUPPORTERS OF THE CORNELL
RESEARCH LABORATORY FOR DISEASES OF DOGS

At the close of each fiscal year at the University, our annual report is prepared. It is written specifically for all of those persons whose interest and contributions make possible the research being carried out in the Laboratory. Their names are listed in the Acknowledgments section. Each one is sent a copy of this report as a means of expressing our appreciation.

This is our fifteenth such annual report and marks thereby the end of fifteen years of work. Even more important it signals the beginning of our sixteenth year—one which we hope will be outstanding in the history of the Cornell Research Laboratory for Diseases of Dogs.

If present plans meet approval, a much-needed addition will be constructed. Funds have been requested from the National Institutes of Health. If granted, then matching amounts obtained from donations will allow us to build the new division, which would be joined onto the left of the still incomplete section shown on the frontispiece.



Overcrowding, such as we have had in recent years, can be far more serious in work with viruses and infectious organisms than in laboratories where work is with inert materials. We need additional laboratories and also more room for modern technical equipment. We also should like to be able to accept for research and graduate training a greater number of young scientists than we have been able to find room for in the past.

The following is a list and brief description of some of the most important activities, all of which need to be accelerated and expanded.

1. Suggested by Mr. John M. Olin, an all-out campaign against hip dysplasia will be conducted. This will take into consideration the influences of genetics, infectious diseases, parasites, nutrition, environmental influences, and as many other aspects as possible of this baffling condition. We are pleased to announce that a world-famous geneticist, Dr. F. B. Hutt, will join our staff as a consultant in October to assist in this effort.

2. Further studies and analyses will be made of colostrum and maternally derived antibodies.

3. The significance of infectious organisms during gestation will be studied in relation to abortions, stillbirths, and diseases of the newborn.

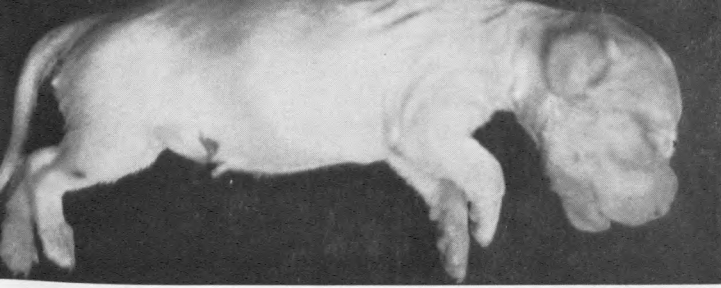
4. Search will continue for organisms that cause diseases. On the next page are pictures describing a fatal, hitherto unrecognized disease of puppies.

5. Modern techniques, including that of fluorescent antibody staining, will be applied to our long-range studies of the movement of infectious microorganisms throughout the body into various tissues, cells, and organs. We are finding that distemper virus can localize in the lungs and remain infective for unexpectedly long periods of time, after apparent recovery from the disease and with circulating antibodies in the bloodstream. Distemper virus can persist in the brain and, in some cases, at a later date cause an encephalitis or other damage. Infectious canine hepatitis virus and different species of leptospiras can localize in the kidneys. Similar to the herpesvirus that in man can cause feverblisters which subside and recur on the lips, or occasionally can cause serious damage in the eye, we have found a previously unsuspected herpesvirus of dogs that causes a vaginitis in mothers and a rapidly fatal disease of the newborn puppy.

6. Other long-range studies include possible recrudescence in later life of certain persistent organisms that may reappear as atypical diseases seemingly unrelated to the original infection.

7. The problem of autoimmunity is being investigated.

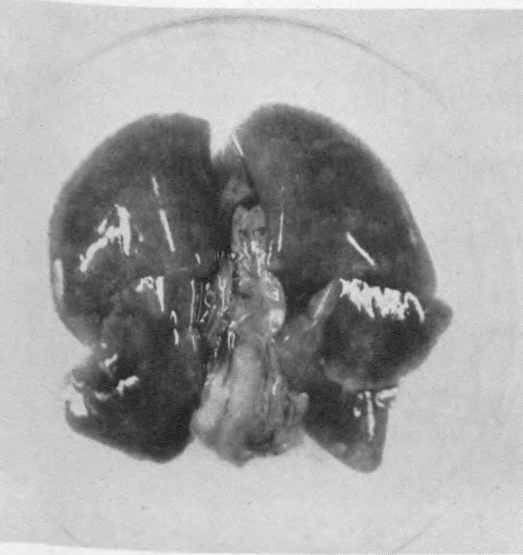
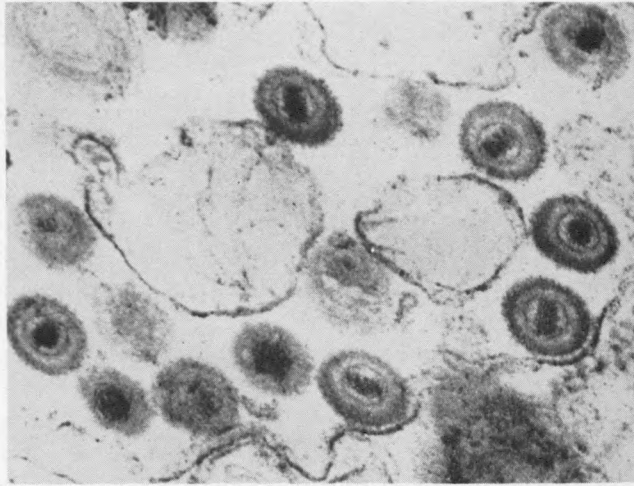
8. Evaluation and supervision will continue of field tests of vaccines, including combined vaccines and heterotypic vaccines. The prototypes of many new vaccines are made here in the course of scientific studies and isolation of organisms, and many vaccines are first made, tested, and described



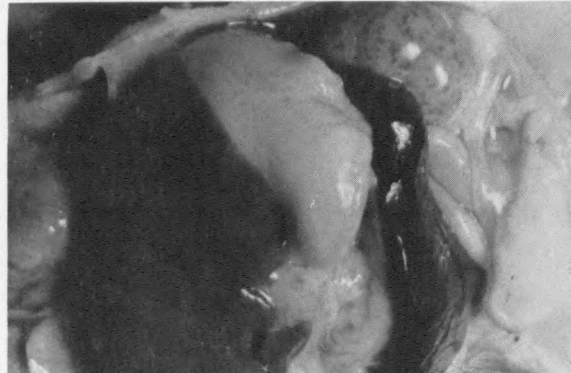
CANINE HERPESVIRUS

A newly recognized
fatal disease of
puppies.

*Electronmicroscopic picture
of the virus.*



*Lungs, severely damaged
by virus.*



*Kidney, liver, and spleen
also show severe damage.*

here, with field tests arranged for some that seem most promising. Later, of course, such vaccines must be made by various commercial companies for distribution to the eventual users.

9. Much additional work will be done upon the new concept of heterotypic immunity which originated at the Institute and which now is beginning to be recognized throughout the world. Further development is planned of a new vaccine for prevention of infectious canine hepatitis in puppies and tests for many other heterotypes that may prove suitable for protective vaccines. Recently we have been informed that a heterotypic measles vaccine made specifically for early protection of puppies against distemper has been licensed by the government for commercial production. According to our findings, during several years of research and tests, a properly made vaccine of this type should be very useful.

10. Nutritional aspects of immunology are being studied in great detail.

11. Supervision continues of a study, in another location, of parasites that plague dogs in some parts of the country.

12. An important study is continuing of an antiviral drug. At the present time there seems to be great promise for the goal of a drug that can prevent distemper in dogs that have lost their immunity or did not establish satisfactory immunity.

13. Long-range studies continue to discover reasons for individual variations found in response to vaccination, on precise duration of immunity, and the reasons why a few animals cannot seem to establish satisfactory immunity.

14. Some important new studies are being made of pulmonary insufficiency and comparisons of distemper and emphysema.

STAFF ACTIVITIES

Dr. James A. Baker presented a paper last fall at the annual meeting of the USLSA in Memphis. During the spring Dr. Baker took two months' sabbatical leave in order to visit research institutions in Spain, Switzerland, the Netherlands, and in Great Britain, where he gave talks concerning various aspects of research at the Institute. Made possible by a grant from the Wellcome Research Foundation were talks describing technical aspects of heterotypic vaccination, which were given at the University of London, Pirbright Laboratory, and the Wellcome Research Club. A joint discussion was held at the new University of Liverpool Medical School with Dr. Kenneth MacCarthy of their faculty concerning a comparison of aspects of measles in children with distemper in dogs.

Continued participation of the Laboratory in the US government's A.I.D. projects resulted in the stay here of Dr. Daouda Sylla, who came to Cornell

from the Pasteur Institute. In June Dr. Sylla returned to the Republic of Mali, West Africa, where he is scientific director of a projected vaccine laboratory, which Dr. Baker had been asked to help design. At the request of A.I.D., Dr. Ben Sheffy spent several weeks last spring at Bamako, followed in the summer by Dr. Carmichael. First hand information has been gained thereby concerning infectious disease problems not found in this country but which have direct bearing on problems that may occur here.

During the year Dr. Sheffy gave talks to the Finger Lakes Kennel Club, the annual meeting of the Pennsylvania State Veterinary Medical Association, the Cornell Nutrition Conference, and the annual Gaines Symposium at the University of California, besides serving on the Executive Board of the Tompkins County (N. Y.) S.P.C.A.

Dr. Robert Kahrs gave talks at the annual meeting of the Maryland Veterinary Medical Association in Baltimore and at the Cornell Conference for Veterinarians.

IN MEMORIAM

With great sorrow we record the death of our friend, Nancy Sayles Day. Mrs. Day, with her husband, Colonel Lee Garnett Day, was of constant help and encouragement to the Institute. They founded the Daynemouth Division of the Cornell Research Laboratory for Diseases of Dogs in 1950, and thereby enabled the Laboratory itself to become a reality. Later they contributed some of the funds which enabled the Microbiology Laboratories and the Library-Seminar Room to be built.

With a keen scientific mind, Mrs. Day followed details of work in the laboratories with interest, constant encouragement, and understanding. For instance, some years ago she suggested that a study be made of the possible relationship between measles and distemper viruses, which has proved to be of great importance. She was particularly interested in the nutritional aspects of immunology, and was concerned with the welfare of all animals and people.

Mrs. Day always will be greatly missed at the Institute that she helped to establish.

IN APPRECIATION

We are grateful to all of our supporters whose interest and financial help make possible continued work in the Cornell Research Laboratory for Diseases of Dogs. We especially wish to thank the following for generous assistance, guidance, and support during past years and for grants in aid of

future research: Colonel Lee Garnett Day, Mrs. Geraldine R. Dodge, Mr. and Mrs. Harry Miller, Mr. John M. Olin, Mr. and Mrs. Spencer Olin, Mr. and Mrs. A. Wells Peck, and Mrs. Elizabeth Ireland Poe.

Mr. Richard Tift has volunteered much time and effort to the collection of funds for the laboratory.

Members of the Research Committee of the American Kennel Club, Mr. T. W. Merritt, Mr. Howard Parker, and Mr. C. K. Rickel, with Mr. Alfred M. Dick, Executive Vice-President, have continued generous support for the CRLDD's Distemper Evaluation Laboratory.

Mr. George Berner and the staff of *Dog World Magazine* are continuing their valuable and voluntary campaign to help raise funds for the CRLDD from dog owners all over the United States.

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. Papers published during the past year include the following:

- (180) BAKER, JAMES A.: Robson, D. S.; and Gilmartin, John: Heterotypic Vaccination. *Veterinary Record*. To be published.
- (181) _____: Protection of Puppies against Distemper by Attenuated Measles Virus. In Preparation.
- (182) CARMICHAEL, L. E.: A Fatal Septicemic Disease of Infant Puppies Caused by Cytopathogenic Organisms with Characteristics of *Mycoplasma*. *Proc. Soc. Exp. Biol. & Med.*, 1964, 117, 826.
- (183) _____: Studies on the Pathogenesis of Ocular Lesions of Infectious Canine Hepatitis. II. Experimental Production of Allergic Uveitis. *Path. Vet.* Accepted for publication. February, 1965.
- (184) _____: Strandberg, J. D.; and Barnes, F. D.: Identification of a Cytopathogenic Agent Infectious for Puppies as a Canine Herpesvirus. *Proc. Soc. Exp. Biol. & Med.* In press. 1965.
- (185) _____: Squire, R. A.; and Krook, Lennart: Clinical and Pathologic Features of a Fatal Viral Disease of Newborn Puppies. *Amer. Jour. Vet. Res.* Submitted for publication. 1965.
- (186) KAHRS, R. F.: and Smith, R. S.: Infectious Bovine Rhinotracheitis, Infectious Pustular Vulvovaginitis, and Abortion in a New York Dairy Herd. *Amer. Vet. Med. Assoc.*, 1965, 146, 217.
- (187) _____: Studies on Combination Vaccines for Dairy Cattle. Thesis, Cornell University, 1965.
- (188) ROBERTS, J. A.: A Study of the Antigenic Relationship between Human Measles Virus and Canine Distemper Virus. *Jour. of Immunology*, 1965, 94, 622.
- (189) SHEFFY, B. E.: Nutritional Requirements of Dogs. *Proc. Cornell Nutrition Conference*. 1964.

VIRUS RESEARCH INSTITUTE STAFF

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- 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.

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- 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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 JOANN SALAMINO, Ithaca College. Laboratory Technician.
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VIVIAN MORGAN, Laboratory Technician.

DAOUDA SYLLA, D.V.M., Alfort; Dip. Bact. Ser., Pasteur Institute. A.I.D. Visiting
Investigator.

ELIZABETH WHEELER, Laboratory Assistant.

COOPERATING STAFF

(These veterinarians 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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ACKNOWLEDGMENTS

Contributions received from September 1, 1964 to September 1, 1965 in support of the Cornell Research Laboratory for Diseases of Dogs.

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| The Alameda Contra Costa Veterinary Medical Association | Southern Tier Veterinary Medical Association |
| Cayuga County Veterinary Society | Veterinary Medical Association of New York City, Inc. |
| District of Columbia Academy of Veterinary Medicine | Westchester-Rockland Veterinary Medical Association |
| Finger Lakes Veterinary Medical Association | Western New York Veterinary Medical Association, Inc. |
| Hudson Valley Veterinary Medical Society, Inc. | Women's Auxiliary to the New York State Veterinary Medical Society |
| Long Island Veterinary Medical Association | Women's Auxiliary to the Veterinary Medical Association of New York City, Inc. |
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 American Chesapeake Club
 American Kennel Club, Inc.
 American Sealyham Terrier Club
 Annapolis Kennel Club, Inc.
 Arkansas Kennel Club, Inc.
 Arrowrock Obedience Dog Club
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 Baltimore County Kennel Club, Inc.
 Basset Hound Club of America, Inc.
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 Burlington Co. Kennel Club, Inc.
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 Irish Setter Club of Western New York
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 Kanadasaga Kennel Club, Inc.
 Keeshond Club of America



Pooba of Kubera symbolizes the object of this presentation of a \$500 check from the Finger Lakes Kennel Club for research work at the Cornell Research Laboratory for diseases of Dogs. Pooba's owner, kennel club president Erman Moore, presents the check to Dr. James A. Baker, director of the Laboratory.

The Finger Lakes Kennel Club was the very first club to pledge support for the Cornell Research Laboratory for Diseases of Dogs. They are now the first club to reach a total of \$5000.00.

HUNTS AND CLUBS (Cont.)

- Kern County Kennel Club, Inc.
 Kerry Blue Terrier Club of Kansas City, Mo.
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