

THE INSTITUTE REPORT



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

October, 1958

Volume 8

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Frontispiece shows laboratory and office buildings of the Virus Research Institute on Snyder Hill. Tall building is the Microbiology Laboratory, provided by Colonel and Mrs. Lee Garnett Day and Mr. John M. Olin. At the rear is an Isolation Building for work on diseases of swine and cattle.

To the right is the Cornell Research Laboratory for Diseases of Dogs, in which the Daynemouth Division was provided by Colonel and Mrs. Lee Garnett Day and the Giralda Division was provided by Mrs. Geraldine Rockefeller Dodge. This picture was taken from the dog kennel, of which only a portion of the screened runs is visible in the immediate foreground.

Below is the new Control Laboratory for Disease Free Animals, in which work commenced this year. One-half of the funds were provided by the United States Public Health Service and one-half by the Institute. At left can be seen some of the screened runs for controlled work with swine, while at the right can be seen the barn used for studies with our herd of disease free cattle given by the Rockefeller Institute.

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THE INSTITUTE REPORT

EACH year the Institute Report is prepared especially for the persons whose help makes possible our continued operation. Each of these donors or groups of donors is listed individually under "Acknowledgments", and each one is sent a copy of the Report.

A great number of these donors are interested primarily in accomplishments of the Cornell Research Laboratory for Diseases of Dogs, since this section of the Virus Research Institute is supported entirely by their contributions. For this reason, the Institute Report mentions work from the Laboratory for Diseases of Dogs in greater detail than work with cattle, swine, cats, or other domestic animals from the Microbiology Laboratories.

A list of current publications is included in this Report. The majority are scientific; some are of a more general nature, intended primarily to help dog owners reach a better understanding of infectious diseases. Reprints are still available of some of these publications, including most of the Laboratory Reports which were prepared specifically for dog owners.

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CORNELL RESEARCH LABORATORY FOR DISEASES OF DOGS

Daynemouth Division (Provided by Colonel and Mrs. Lee Garnett Day):

Richard R. Gutekunst, B.S., M.S., M.S.C., USN. Received Ph.D. degree in June, 1958. Returned to active duty with the Navy.

Mary French Dougherty, B.S., Laboratory Technician.

Giralda Division (Provided by Mrs. Geraldine Rockefeller Dodge):

Leland E. Carmichael, A.B., D.V.M., Director of the Division.

Anita Fineman, R.N., A.S., Laboratory Technician.

Vincent Marshall, D.V.M., Research Associate. Resigned in February to accept position with Jensen-Salsbery Laboratories, Kansas City, Missouri.

B. S. Pomeroy, D.V.M., Visiting investigator. Returned in June to his position as Professor of Veterinary Bacteriology at the University of Minnesota.

Distemper Evaluation Laboratory (Operating funds provided by the American Kennel Club):

Joan A. Burgher, B.S., Research Associate and Director of the Laboratory. Resigned in June to accompany her husband to his new position in New Jersey.

Antonio Pereira, Laboratory Technician.

Douglas S. Robson, Ph.D., Statistical Consultant.

Cooperating Staff:

These veterinarians and scientists are contributing much time and effort without compensation in order to help secure the necessary information on which to base a program to conquer distemper.

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MESSAGE FROM THE DIRECTOR

In my message last year, I wrote that construction had begun on a Control Laboratory to produce disease-free animals nutritionally standardized. Construction was completed in December and actual use of the building began in January, 1958. This addition to our physical plant has made possible extension of our studies of natural substances, particularly those found in colostrum, that affect specifically an animal's ability to overcome infectious diseases. As can be readily appreciated, animals not exposed to disease or subject to disease might not require certain dietary constituents, whereas under the effects of disease either certain substances or conceivably more of essential ones might be required if an animal is to recover in the shortest possible time. Already we have found that one of the most important constituents is iron, and the amount needed for maximum health is being studied intensively.

Our Distemper Evaluation Laboratory has continued to collect information about the efficacy of the dual vaccine developed to protect dogs against distemper and infectious canine hepatitis. Primarily, we have three aims: 1) to determine the earliest age at which puppies can be immunized, 2) to determine the expected percentage of success from vaccination, and 3) to determine persistence of immunity and whether there is need for revaccination.

Much work during the past year has been devoted to furthering aim #1. We now have found that by analysis of the mother's serum a precise determination can be made of the age in weeks at which her puppies need to be vaccinated. This serological test should be made before the puppies are whelped. Since this is a technical laboratory procedure, a serological service will need to be established in various areas of the country. With the need for such serological diagnosis recognized, it should be made available in many localities. This work will be discussed in more detail in publications in the near future.

Aim #2, concerning the expected percentage of success from vaccination has been realized. All puppies capable of being immunized will become immunized if properly given a dual vaccine which has been properly made and meets national standards.

Aim #3 is yielding interesting information. We have found that some individuals cannot retain their immunity. The exact factors responsible are still unknown at present, but we believe they are concerned mainly with the individual's own cellular biochemistry. Search for further information must

follow. There must be an analysis of the factors which cause some individuals to lose immunity. This, of course, relates closely to our work recently started in the new Control Laboratory and the discovery and analysis of natural substances which may help an individual establish and maintain immunity to infectious diseases.

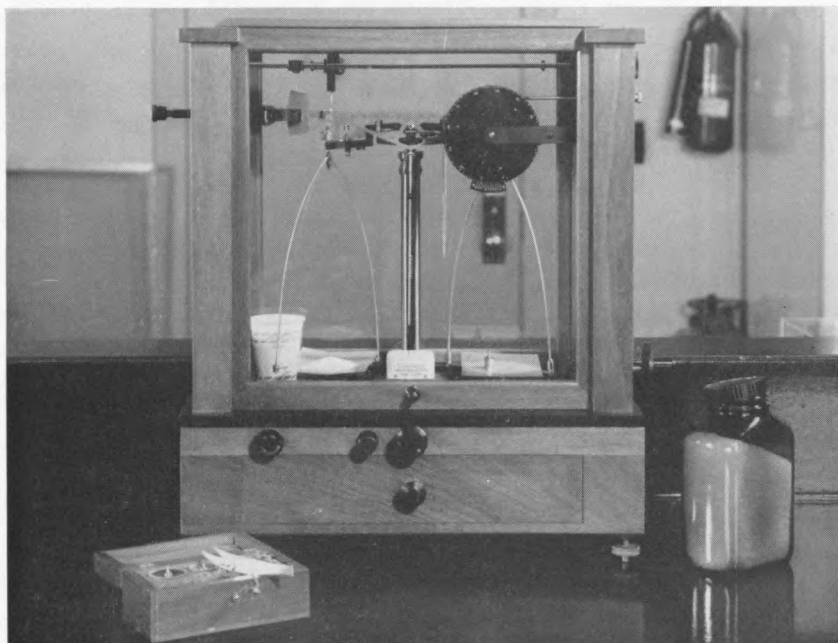
All of the progress on the control of distemper and infectious canine hepatitis has been made possible by more exact measurements than have been available in the past and by subjecting information accumulated thereby to statistical analysis. There follow on the next several pages photographs and captions which indicate the types of equipment and measurements that have led to this new understanding of vaccination. We hope that you will enjoy looking at these photographs, not so much because of their esthetic appeal, but in order to appreciate some of the many hundreds of painstaking measurements made in order to permit the accurate conclusions which have led to better understanding.

In regard to our financial situation, we have continued to receive sufficient funds to maintain our annual budget of \$80,000 for the Cornell Research Laboratory for Diseases of Dogs. Also, a number of supporters have been providing some additional financial support which has gone into stabilizing our future financial situation somewhat. Any surplus funds which may accumulate are invested for the benefit of the Dog Laboratory at a guaranteed interest rate of 4%, although for the last few years they have earned 5%. This endowment fund was materially helped by the gift of \$250,000 from the Alfred A. Caspary Estate, as mentioned in the 1956 Report. Other than this one large donation, there have been only small annual increments from surplus, and endowment funds are not nearly adequate as yet. We hope, of course, that each present supporter can continue his generosity and that eventually we can improve our endowment sufficiently to allow the establishment of a permanent professorship in the Institute.

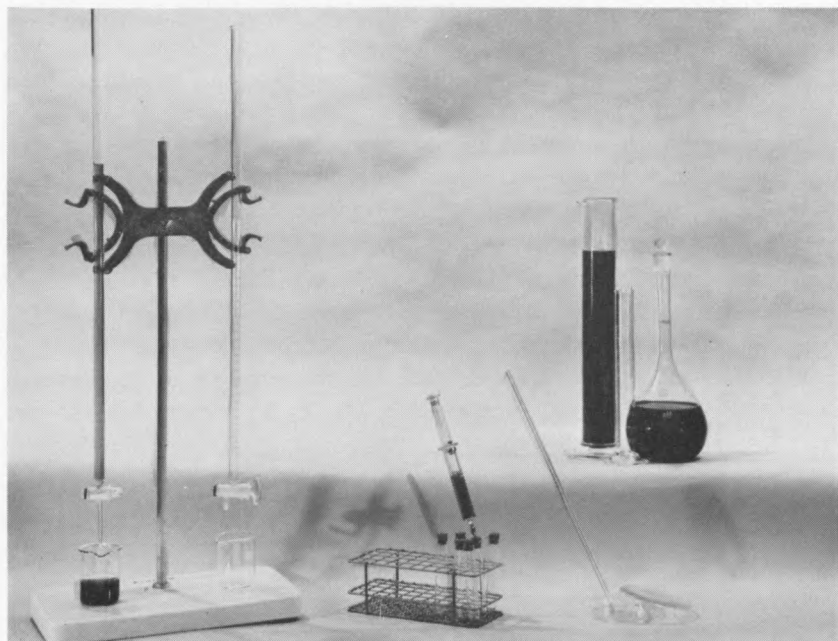
To a number of our supporters, who by unusual effort and counsel or by very generous financial support have made this year successful, we are deeply grateful. I would like to express special appreciation to Colonel and Mrs. Lee Garnett Day, Mrs. Geraldine R. Dodge, Mr. John M. Olin, Mrs. Elizabeth I. Poe, and to Mr. John C. Neff and the members of the Research Committee of the American Kennel Club, Mr. T. W. Merritt, Mr. Howard P. Parker and Mr. C. K. Rickel.

James A. Baker

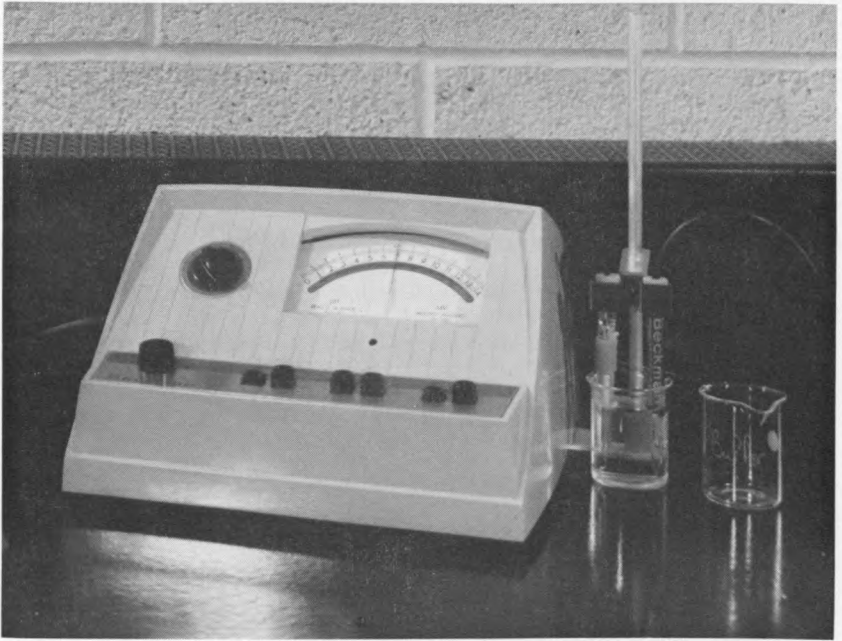
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This balance weighs accurately so that solutions contain measured amount of chemicals.



This graduated equipment makes possible measurements of volume essential in all titrations.



Viruses require a proper chemical environment, neither too acid nor too alkaline. This pH meter assures adjustment of solutions so that viruses and the cells in which they grow will give dependable results.



Microbiology means living organisms as revealed by the microscope. Under the microscope shown here is a tube of tissue-cultured cells inoculated with infectious canine hepatitis virus.

PUBLICATIONS FROM THE VETERINARY VIRUS
RESEARCH INSTITUTE

- (1) Baker, J. A., Richards, Mabel G., Brown, A. L., and Rickard, C. G., Infectious Hepatitis in Dogs, Proc. A.V.M.A. 87th Ann. Meeting, 1950, 242-248.
- (2) —————, Feline Pneumonitis, Proc. A.A.H.A., 1951, 273-276.
- (3) —————, Leptospirosis in Cattle, Proc. Ohio State Vet. Con., 1951, 50-51.
- (4) —————, Recent Advances in Virus Diseases of Dogs, *ibid*, 54-58.
- (5) —————, Infectious Disease in Relation to Nutrition, Proc. Am. Feed Mfg. Assn., 1951.
- (6) —————, Report from the Cornell Research Laboratory for Diseases of Dogs, Proc. A.A.H.A., 1951, 163-164.
- (7) —————, Recent Findings in Infectious Diseases, Gaines Veterinary Symposium, Oct. 24, 1951.
- (8) —————, The New Hog Cholera Vaccines, Proc. A.V.M.A. 88th Ann. Meeting, 1951.
- (9) —————, Rinderpest, 57th Ann. Proc. U.S. Livestock Sanitary Assoc., Sept., 1953, 192-196.
- (10) —————, Immunity to Virus Diseases in Dogs, Proc. A.A.H.A., 1953.
- (11) —————, and York, C. J., Virus Diseases. Advances in Veterinary Science, Academic Press, Inc., 1953, 1, 49-74.
- (12) —————, York, C. J., Gillespie, J. H., and Mitchell, G. B., Virus Diarrhea in Cattle, Amer. Jour. Vet. Res., 1954, 15, 525-531.
- (13) —————, Leptospirosis in Dogs and Its Prevention, Gaines Veterinary Symposium, October 20, 1954.
- (14) —————, Expanding Knowledge of Viruses, Vet. Med., 50, 1955.
- (15) —————, Cattle Diseases (a chapter entitled "Leptospirosis"), published by American Veterinary Publications, Inc., Evanston, Ill. 1956.
- (16) —————, (with C. J. York), *Miyagawanella bovis* Infection in Calves. Annals of N.Y. Acad. of Sc., 1956, 66, 210-214. Article 1, Epidemic and Endemic Diarrheal Diseases of the Infant.
- (17) —————, Combined Vaccines. Proc. U.S. Livestock Sanitary Assoc., 61st Ann. Meet., 1957, 47.
- (18) —————, Development and Expectations of New Vaccines. 7th Gaines Veterinary Symposium, 1957, 15.
- (19) —————, Gillespie, J. H., Sheffy, B. E., and Marshall, V. Simultaneous Immunization of Cattle Against Leptospirosis, Virus Diarrhea, and Infectious Bovine Rhinotracheitis. Cornell Vet., 1958, 48, 207.
- (20) Baker, Dudley, Infectious Diseases of Dogs, Amer. Kennel Gazette, Dec., 1953-Mar., 1955.
- (21) —————, Immunity, Vaccines and Vaccine Failures. Laboratory Report I, June, 1955.
- (22) —————, Leptospirosis. Laboratory Report II, April, 1956. October, 1957.
- (23) —————, Program to Control Infectious Diseases of Dogs. Laboratory Report III, May, 1957.
- (24) —————, Distemper Can Be Conquered. Amer. Kennel Gazette, 1957.
- (25) —————, New Light on Hand Rearing of Puppies. American Kennel Gazette, 1958, 75, 9.
- (26) Burgher, Joan A., Baker, J. A., Sarkar, S., Marshall, V., and Gillespie, J. H. Evaluation of a Combined Vaccine Consisting of Modified Canine Distemper Virus and Modified Infectious Canine Hepatitis Virus for Simultaneous Immunization of Dogs. Cornell Vet., 1958, 48, 214.

- (27) Burnstein, T., Studies on the Role of the Adrenal Gland in Resistance Against the Toxin of the Feline Pneumonitis Virus. A Thesis, Cornell, 1951.
- (28) —————, Leptospirosis in Swine. A Thesis, Cornell, 1953.
- (29) —————, and Baker, J. A. Leptospirosis in Swine Caused by *Leptospira pomona*, Jour. Inf. Dis., 1954, 94, 53-64.
- (30) Celiker, A., and Gillespie, J. H., The Effect of Temperature, pH, and Certain Chemicals on Egg-cultivated Distemper Virus. Cornell Vet., 1954, 44, 276-280.
- (31) Erturk, Omer., A Comparison of the Effectiveness of Certain Antibiotics on *Miyagawanella Felis* Virus in Chick Embryo. The Cornell Vet., 1956, 46, 355-360.
- (32) Gillespie, J. H., Some Preliminary Studies on the Problem of Encephalitis in Dogs. Proc. A.A.H.A., 1951, 164-167.
- (33) —————, and Baker, J. A., Experimental Q Fever in Cats. Amer. Jour. Vet. Res. 1952, 13, 91-94.
- (34) —————, Clinical Features of Infectious Canine Hepatitis. Proc. A. V. M.A. 89th Ann. Meeting, 1952, 224-225.
- (35) —————, Robinson, J. I., and Baker, J. A., Dual Infection of Dogs with Distemper Virus and Virus of Infectious Canine Hepatitis. Proc. Soc. Exp. Biol. and Med., 1952, 81, 461-463.
- (36) —————, Encephalitis in Dogs Produced by Distemper Virus. Amer. Jour. Vet. Res., 1956, 17, 103-108.
- (37) —————, Baker, J. A. and Poppensiek, G. C., Diarrhea in Puppies Caused by Distemper Virus. Annals of N. Y. Acad. of Sc., 1956, 66, 204-209.
- (38) —————, Immunity to Distemper in Dogs. Gaines Veterinary Symposium, October 24, 1956.
- (39) —————, Lee, K. M., and Baker, J. A. Infectious Bovine Rhinotracheitis. Am. J. Vet. Res., 1957, 18, 530-535.
- (40) —————, Infectious Canine Hepatitis. A.V.M.A., 1958, 132, 1.
- (41) —————, Baker, J. A., Burgher, J., Robson, R., and Gilman, B. The Immune Response of Dogs to Distemper Virus. Cornell Vet., 1958, 48, 103.
- (42) —————, Some Research Contributions on Canine Distemper. J.A.V.-M.A., 1958, 132, 534.
- (43) Greig, A. S., A Pleuropneumonia-like Organism from Dogs. A Thesis, Cornell, 1953.
- (44) Gutekunst, R. R. Studies on Canine Pleuropneumonia-like Organisms. A Thesis, Cornell, 1958.
- (45) Lee, K. M., Transmissible Gastroenteritis in Swine. A Thesis, Cornell, 1952.
- (46) —————, Moro, M., and Baker, J. A. Transmissible Gastroenteritis in Pigs. Am. J. Vet. Res., 1954, 15, 364-372.
- (47) —————, Tissue Culture and Animal Viruses, Gaines Veterinary Symposium, Oct. 19, 1955.
- (48) —————, Propagation of Transmissible Gastroenteritis Virus in Tissue Culture. Annals of N.Y. Acad. of Sc., 1956, 66, 191-195.
- (49) —————, and Gillespie, J. H. Propagation of Virus Diarrhea Virus of Cattle in Tissue Culture. Am. J. Vet. Res., 1957, 18, 952.
- (50) McBee, L. A., A Hitherto Undescribed Organism Infectious for Deer Mice. A Thesis, Cornell, 1952.
- (51) Moro, M., The Presence and Persistence of the Virus of Transmissible Gastroenteritis in Pigs. A Thesis, Cornell, 1954.
- (52) Poppensiek, G. C., and Baker, J. A., Persistence of Virus in Urine as Factor in Spread of Infectious Hepatitis in Dogs, Proc. Soc. Exp. Biol. & Med., 1951, 77, 279-281.
- (53) —————, Infectious Hepatitis, Gaines Veterinary Symposium, Oct. 22, 1952.

- (54) _____, Immunology of Infectious Canine Hepatitis, Proc. A.V.M.A. 89th Ann. Meeting, 1952- 228-229.
- (55) _____, Virus Diseases of Dogs, Vet. Med., 1952, 47, 282-284.
- (56) Robson, D. S., and Baker, J. A. Statistical Design for Disease Incidence. Proc. U.S. Livestock Sanitary Assoc., 61st Ann. Meet., 1957, 40.
- (57) _____, and Baker, J. A. A Formula to Determine the Economic Efficiency of Livestock Vaccination. Modern Veterinary Practice, 1958, 39, 27.
- (58) Sarkar, Siddhartha. Immunization of Dogs with Infectious Canine Hepatitis Virus Propagated by Tissue Culture in Swine Kidney Cells. A thesis, Cornell, 1957.
- (59) Sheffy, B. E. Hand Rearing of Puppies. 7th Gaines Veterinary Symposium, 1957, 9.
- (60) Stephenson, H. C., Summary of Symposium on Infectious Canine Hepatitis, Proc. A.V.M.A. 89th Ann. Meeting, 1952, 230-231.
- (61) _____, Four Kinds of Immunity in the Dog, Gaines Veterinary Symposium, Oct. 21, 1953.
- (62) _____, A Research Report on the Viral Diseases of Dogs, Proc. A.A.H.A., May 1954.
- (63) _____, Dogs, Nutrition and Disease, Proc. Dog Food Manufacturers Association, Sept. 1955.
- (64) Stunzi H., Gillespie, J. H., and Celiker, A., Pathological Response of the Chorioallantoic Membrane of the Hen's Egg to Distemper Virus, Cornell Vet., 1954, 44, 211-215.
- (65) York, C. J., and Baker, J. A., A New Member of the Psittacosis-Lymphogranuloma Group of Viruses that Causes Infection in Calves, Jour. Exp. Med., 1951, 93, 587-604.
- (66) _____, Complement-Fixation Test for Bovine Leptospirosis, Amer. Jour. Vet. Res. 1952, 13, 117-120.
- (67) _____, and Baker, J. A., Vaccination for Bovine Leptospirosis, Amer. Jour. Vet. Res., 1953, 14, 5-8.

ACKNOWLEDGMENTS

Of those who contributed September 15, 1957 to Sept. 15, 1958

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