From the
JAMES A. BAKER INSTITUTE
FOR ANIMAL HEALTH
Cornell University, Ithaca, New York
December, 1975
Volume 25
This book may be kept

SEVEN DAYS

A fine will be charged for each day the book is kept overtime.
THE INSTITUTE REPORT

From the
CORNELL RESEARCH LABORATORY
FOR DISEASES OF DOGS
Cornell University, Ithaca, New York

December, 1975

Volume 25
JAMES ANDREW BAKER (1910-1975)
JAMES A. BAKER, founder and late Director of the Veterinary Virus Research Institute and the Cornell Research Laboratory for Diseases of Dogs died suddenly on April 14, 1975. With his passing, veterinary virology and the many owners and fanciers of dogs who benefited from his influence have lost one of its most distinguished and dynamic personalities. It is impossible to abbreviate a life and career so full of vigor into a simple statement, for those who knew him as a fellow scientist, educator, or friend could not fail to recognize his genius. His creation and pursuance of novel ideas have guided the course of infectious disease research in the veterinary field for more than two decades. He was never bound by traditional thinking—he was an innovator and stimulator. He enjoyed challenge and thoroughly delighted in exploring an idea from the back side. Though stimulated by ideas he was never satisfied unless they could be put to some practical use. Basic research interested him—but not for its own sake, for Drew Baker believed the veterinary community too small and resources too precious to be spent on ideas that did not bear on the means of prevention or treatment of sick animals. He recognized that through the study of animal disease man also would benefit, for it has become increasingly clear in recent years that man’s afflictions are not very different than those that affect dogs—or cows.

In 1947 Drew Baker returned from the Rockefeller Institute to Cornell at the invitation of the late Dean William Hagan to become professor of bacteriology. At that time virology was not a major subject in veterinary schools, but Baker recognized its importance and the need for research as well as teaching. By the force of his unique personality he gained financial support to found in 1950 the Veterinary Virus Research Institute (VVRI) and the Cornell Research Laboratory for Diseases of Dogs. He became Director of the Institute in that year, a position he held until his death. Several important personalities assisted Drew Baker in gaining both initial support for the Institute and in bringing to his attention important disease problems occurring in the field. The help and counsel of such people as John and Spencer Olin, Colonel and Mrs. Lee Garnett Day, Geraldine Rockefeller Dodge, Mrs. Walter Teagle, Mr. Robert Woodruff, the Richard King Mellons, and the veterinarians, dog clubs, and commercial companies who gave encouragement in the early days continued to influence Dr. Baker in his attempt to improve animal health through field and laboratory research. Over the succeeding 25 years, with resources derived largely from private subscription, the Institute expanded and flourished under his leadership to become one of the leading veterinary research institutes of the world. Work concentrated primarily on the canine and bovine species, and many of the advances in veterinary virology had their origins in the VVRI, some of which include: the development of modern combined distemper-hepatitis vaccines; heterotypic vaccination concepts, using measles virus for distemper; discoveries
involving canine adenoviruses and canine herpesvirus; bovine viral diarrhea and infectious bovine rhinotracheitis; bovine chlamydial infections; discovery of canine brucellosis; identification of viruses and bacteria associated with respiratory illness in dogs and cattle; relationships between nutrition and disease; the role of colostral protection. All of these areas required the development of new technologies. Under Drew Baker's guidance the VVRI grew to its present state, a modern and well-equipped laboratory complex dedicated to solving disease problems arising from the field as well as basic biomedical research. Dr. Baker always planned for the future. His greatest pride was in the fulfillment of his ideals in the scientific and humane accomplishments of his colleagues and students; six who became Deans of veterinary colleges here and abroad. He demanded hard work from his staff, but always gave generously of his time, advice, and enthusiasm for novel ideas. He never used the work of his students or colleagues for his own benefit, for he took greater satisfaction from their accomplishments. Dr. Baker's eminence in infectious disease research was marked by many awards, including the Borden Award and the Gaines Award, for his studies on cattle and dogs respectively. Many students and scientists from various parts of the world received training at the VVRI and were always welcomed and treated with his characteristically generous "southern hospitality." Drew Baker was known to members of the veterinary profession throughout the world: in the United Kingdom, Central, and South America where he presented talks at Congresses and special symposia, and in the lesser traveled areas such as West Africa where he received in 1965 a commendation from the President of the Republic of Mali for his efforts in establishing in that country a modern research and vaccine production laboratory. He was due to retire in December of this year and it is particularly sad that he was not spared to see the celebration in September to mark the 25th anniversary of the Institute he built, and to which he devoted the major portion of his life. As most who knew him recognize, Dr. Baker's wife, Dudley, played a key role throughout the Institute's development. Her encyclopedic knowledge and interest in the laboratory, its history, the people who helped in its inception and growth, and her tireless devotion to both the scientific accomplishments and to the people who have worked and studied at the Institute are recorded both in mind and in the many reports and articles she has written and edited over the past 25 years.

L. E. Carmichael
John M. Olin Professor of Virology

A. O. Betts
Principal and Dean
The Royal Veterinary College
University of London
MESSAGE FROM THE SCIENTIFIC DIRECTOR

At the end of each fiscal year at Cornell, our Annual Report is prepared for those whose interest and contributions make possible the research being carried out. Although usually distributed in September, the Report this year is unavoidably delayed because of the recent death of the late Director, Dr. James A. Baker. It will focus especially on highlights of research activities carried out under Dr. Baker's guidance and acknowledges all those individuals, veterinarians, foundations, and companies whose exceptional interest and financial support have made progress possible.

This year marks the 25th anniversary of the Veterinary Virus Research Institute, a major portion of which is the Cornell Research Laboratory for Diseases of Dogs. On the 9th of September, 1975, the Executive Committee of the Board of Trustees of Cornell University approved a new name for the Institute to commemorate the founder and acknowledge his tireless efforts to investigate the causes of animal disease and develop means for their prevention or cure. Henceforth, the "VVRI" is to be known as THE JAMES A. BAKER INSTITUTE FOR ANIMAL HEALTH.

Formation of the Cornell Research Laboratory for Diseases of Dogs as the first permanent research center in the world for the study of canine diseases was approved in 1950, although the original laboratory facility was not dedicated until January 5, 1951 amongst muddy embankments, earth piles, and other unsightly reminders of recent construction. During the quarter century since the Institute's founding, the Laboratory has grown and much has been accomplished towards the original goal of making animals healthier through disease prevention. Originally, the aims of the Institute were to investigate infectious diseases caused by viruses and bacterial agents. Pathogenic organisms that cause such diseases as distemper, hepatitis, leptospirosis, hog cholera, baby pig gastroenteritis, bovine viral diarrhea and bovine rhinotracheitis, but to name a few, were grown in the laboratory through technological developments, strains of reduced virulence were
selected and studied, and vaccines were developed. During this period, basic mechanisms of pathogenesis—the complex processes by which disease occurs—received much study; work that continues, for control of an infectious disease may occur before little is known of its nature, as evidenced most clearly by smallpox vaccination procedures introduced in 1798 by Jenner, using the naturally attenuated cowpox virus.

In 1950, only four viruses—rabies, infectious canine hepatitis, distemper, and warts—were known to infect dogs in the United States. Now, at least eleven are known, although some of these infections appear trivial. The first decade of the Institute was largely directed toward the development of effective vaccines in cooperation with biological companies and understanding the manner in which they work, and with the problems of testing, standardization and evaluation. To be effective, a vaccine must consist not merely of a bottle of living or inactivated organisms. Immunizing doses that are safe, yet effective, had to be determined and certain undesirable effects, such as severe febrile reactions and "blue eyes" that follow hepatitis vaccines, eliminated or reduced by strain selection or the use of proper injection sites. The immune-response capabilities of the young, including the important problem of maternal antibody interference with live virus vaccines, had to be recognized and studied. Such studies led to most of the vaccination practices now utilized by veterinarians to protect dogs against their most devastating infectious diseases.

Although the descriptive era of discovery of "new" infectious diseases has probably reached maturity, the discovery of the canine herpesvirus, canine parainfluenza virus and the bacterium causing contagious abortions and male infertility (Brucella canis) within the last few years reminds us that new disease agents will surely continue to be recognized. We therefore continue the study of new agents as they affect dogs and food-producing animals. The most complex problems that underlie understanding of those diseases whose causes are not yet known, however, present today's greatest challenge. These include not only infectious diseases, but inherited metabolic faults, nutritional diseases, and the developing awareness of a bewildering array of illnesses caused by immunological defects or through unusual immune response mechanisms ("immunity for the worse"). Examples of immunologically mediated disorders that occur in dogs include the severe immunosuppression caused by distemper virus, thus rendering affected animals highly susceptible to bacterial and mycoplasmal infections, the impairment of the immune response by generalized demodectic mange, plasma cell ("B cell") cancers, rheumatoid arthritis, spontaneous bleeding disease (idiopathic thrombocytopenia), canine hepatitis "blue eyes," and Brucella canis induced
allergic epididymitis that causes damage to the testes and loss of normal sperm production. These conditions are now an active portion of the Institute’s research activities.

With the recognition of close similarities between chronic distemper and measles encephalitis ("SSPE") comparative pathogenesis studies of these two conditions continue with grant support from the Whitehall Foundation.

An entire laboratory currently is devoted to the study of canine brucellosis and means for its treatment, with funds principally supplied by the American Kennel Club. The availability of a commercial test for B. canis antibody now provides the veterinarian with a presumptive diagnosis within two minutes and has revealed the disease's presence in a variety of breeds. The development of the rapid slide agglutination test was done in the Canine Brucellosis Laboratory, and its field performance is now under surveillance. Respiratory illnesses, whose causes are many, and the mechanisms by which the respiratory tract can be protected or treatment effectively accomplished are an active part of our work. A bacterium (Bordetella bronchiseptica) originally thought to be the cause of distemper, and little studied in dogs since distemper virus was recognized, is again under intensive study, since it not only causes complications following distemper, but has been found alone responsible for "kennel cough" in several kennels where a virus could not be incriminated, as well as complicating viral and mycoplasmal illnesses.

Degenerative joint disease, including dysplasia, is but little understood. The ultimate goal of controlling such conditions will not be forthcoming until the precise means by which the disease is caused are known, and reliable and early methods for diagnosis are developed. Recent biochemical studies on an early diagnostic method now show encouraging promise. These studies have been greatly aided by continued support from the John M. Olin Foundation and the Richard King Mellon Foundation.

The Institute is now well-equipped physically and its staff continues to seek out the important disease problems and endeavor to solve them. Since this is the 25th year of our operation, some of the highlights that illuminate the research contributions to veterinary practice, disease control and comparative medicine which have emanated from the laboratories are noted and pictorially reviewed. In order to continue to progress in solving problems that affect animal health, buildings must be maintained and renovated, complex instrumentation acquired to improve the quality of investigation, and adequate technical support maintained to aid the staff in pursuit of their studies. The financial support great and small which has nurtured and sustained the Laboratory has made possible the work that has been done, and which will enable the Institute to continue to thrive productively.
Dedication of the Cornell Research Laboratory for Diseases of Dogs on January 5, 1951.
Aerial view of the Institute. To the original Research Laboratory for Diseases of Dogs (1) have been added the Microbiology Building, completed in 1955 (2) and the modern research wing dedicated in 1968 (3). The original Gaines Isolation Kennel (4), built in 1950, was completed by an additional animal-rearing isolation facility, built in 1958 (5). A portion of the Baker House (6) now in use to accommodate visiting investigators.
1. **Canine: Distemper** vaccines developed, serological tests devised and immune response quantified. Nomogram developed and applied to field. Vaccine evaluation laboratory established. Pathogenesis of distemper studied; biotypical differences in distemper strains recognized. Use of measles virus to protect pups against distemper discovered and evaluated. Mechanisms of protection studied. Dual (distemper/hepatitis) vaccine first developed.

**Canine hepatitis** (ICH, canine adenovirus-type 1): virus adapted to cell cultures, vaccine developed and field tested. Maternal antibody interference with live virus vaccines recognized and quantified. Pathogenesis of "blue eye" studied. Ocular manifestations found to be "allergic" type reactions. Canine adenovirus type 2 ("tracheobronchitis virus") found to cross-protect against type-1 (ICH) without ocular and renal complications. Immune response studied.

**Pathogenesis of canine adenovirus type-2** studied. Found to be principally a respiratory-enteric virus.

**Tracheobronchitis** ("kennel cough") recognized as caused by several agents, both viral, bacterial, and mycoplasmal. Viruses of parainfluenza and adenovirus group isolated and studied. Agents involved in respiratory disease studied: distemper virus, SV-5, CAV-2, *Bordetella bronchiseptica*, Mycoplasma sp.

*B. bronchiseptica* as a sole cause of acute and chronic tracheobronchitis observed. Methods for aerosol treatment studied. Pathogenesis investigated.

**Canine herpesvirus** isolated, described, pathogenesis studied, neonatal susceptibility factors (effects of body temperature), immune response, biochemical studies, epidemiology and characterization of clinical and pathological aspects of the disease investigated.

**Brucella canis:** isolated and recognized as new species of *Brucella*. Bacterium characterized, epidemiology studied, first human case reported. Found to occur in U.S. and elsewhere in world. Serological tests developed and diagnostic laboratory established. Rapid slide agglutination test devised.

**Immunosuppressive effects** of distemper virus recognized and partially characterized.

**Immunopathological** aspects of infectious disease studied.

**Progressive retinal atrophy:** physiological and ultrastructural studies.
Immunosuppressive aspects of demodectic mange recognized and investigated.


Essential focus of work has been the understanding of the essential nature of the development of degenerative hip joint disease in the dog, with the objective of developing tests for earliest possible diagnosis and evaluation of procedures (genetic, nutritional) for amelioration of the disease in affected breeds. Successful control programs require first a clear understanding of the many factors that play a role in the development of joint disease. Unlike gout in humans, which is caused by a specific biochemical abnormality, osteoarthritis in man and animals is much more complex.

2. Cattle: Leptospira pomona isolated, first recognized in United States, bacterin developed and field tested.

Chlamydia psittaci, var. bovis isolated and found cause of neonatal calf diarrhea and death. Recognized as common fecal inhabitant of cattle. Role of colostrum defined.

Bovine viral diarrhea (BVD): described in 1946; adapted to grow in rabbits and later in cell cultures. Vaccines developed and tested, serological tests and methods for isolation of non-cytopathogenic strains devised. Recognized as one cause of abortion. Vaccine safety evaluated.

Found to protect swine against heterotypically-related hog cholera virus. Heterotypic vaccine concept field tested.

Infectious bovine rhinotracheitis (IBR): isolated, characterized as a herpesvirus, shown to cause abortions and neonatal calf death. Vaccine developed and field tested. Danger of vaccinating pregnant animals recognized. Developed combined vaccines, containing virus diarrhea, parainfluenza, IBR, brucella and leptospiral antigens. Recognized persistence and recrudescence of persisting virus by cortisone compounds.

Statistical designs for vaccine evaluation and disease incidence. Evaluation of safer vaccines that interrupt IBR transmission.
Immune response of the bovine fetus during development. Development of skin test antigens for IBR diagnosis.

3. Swine: *Hog cholera* first attenuated by rabbit passage and later in cell cultures. Vaccines tested and evaluated. Serological tests developed and maternal immunity defined. Quantitation of the immune response and maternal antibody interference to live virus vaccines.

Heterotypic vaccine development and field trials, using BVD virus.

*Transmissible gastroenteritis:* adapted to cell cultures, vaccine developed and applied to field pigs. Virus characterized and studied ultrastructurally. Virus found to cause inapparent infection of dogs. Methods developed to rear specific-pathogen-free swine.

**FINANCIAL SITUATION**

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."

Financial situation July 1, 1974-June 30, 1975

**FUNDS AVAILABLE**

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**EXPENDITURES**

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Reserves used to balance budget $19,046.00
In Appreciation: For their exceptional interest in the Institute, we should like to express appreciation to the following: Mr. and Mrs. Gaylord Donnelley, Dr. and Mrs. Joseph B. Engle, Mr. and Mrs. Alexander Feldman, Miss Gladys Freeman, Dr. Kenneth I. Gumaer, Mr. and Mrs. E. Roland Harriman, Mr. and Mrs. John Lafore, Mr. James A. Moffett, Dr. and Mrs. Arthur A. North, Jr., Mr. John M. Olin, Mr. Spencer T. Olin, Mrs. Adelaide C. Riggs, Dr. Cornelius Thibeault, Mrs. Vincent F. Wilcox, and Mr. Robert W. Woodruff.

25TH ANNIVERSARY

The 25th Anniversary of the Laboratory was celebrated on September 5, 1975. The date had been chosen by Dr. Baker to review salient accomplishments of the Institute during the past two decades, to honor those involved in its founding and development, and to consider the future. The commemorative celebration was carried out according to Drew Baker's wishes, for he would have wanted it that way. A morning program with the general theme "Founded for the Future," consisted of both scientific and nostalgic comments by a panel of distinguished speakers which included Dean Edward Melby, Jr., Cornell; Dr. James Bittle, Executive Vice President, Pitman-Moore Inc.; Dr. Jerry Callis, Director, Plum Island Animal Disease Laboratory; Dr. Richard Johnson, Dwight D. Eisenhower Professor of Neurology, Johns Hopkins Medical School; Dr. Robert McClelland, Veterinary Practitioner, Buffalo.

The Commemorative Address was delivered by Dr. Alan O. Betts, Principal and Dean, The Royal Veterinary College, London. Dr. Betts, a colleague and friend of Dr. Baker for more than 20 years, outlined the contributions of James A. Baker to veterinary science as well as to Cornell and the Institute he founded. Dr. Betts then presented the Institute with a hand-illuminated address from the Council and Staff of The Royal Veterinary College in the University of London, a token of esteem and friendship which we are proud to display.

Dr. Hadley C. Stephenson, who has shared his wisdom with the Institute Staff since the days of its founding, presented certificates of appreciation to founders and those individuals whose support has contributed significantly to the Institute's growth and development over the years. The formal program culminated with a reception and tours of the Laboratory facilities.
Dr. Robert B. McClelland, Mrs. Douglas Mitchell

Dr. Richard Johnson, Dr. Edward C. Melby, Jr.

Dr. Hadley C. Stephenson, Dr. Arthur F. North, Jr.
Mr. Walter N. Chimel, Mrs. Evelyn Monte VanHorn, Mr. John M. Olin, Mr. and Mrs. Deane W. Malott, Dr. Jerry J. Callis
The Institute is proud to have had associated with it for the past quarter century the following list of Graduate Students and Visiting Investigators.

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Professor of Virology, Scientific Director, and Acting 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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FLORENCE C. HUTH, Secretary
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MARY L. O'BRIEN, Account Clerk
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ELDON MEAD, Mechanic
FRANK SEARS, Building Maintenance Supervisor
MICHAEL VAUGHN, Maintenance Helper
EDSON WHEELER, Maintenance Supervisor

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Research Assistant

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Daynemouth Division (Established by the late Colonel and Mrs. Lee Garnett Day):
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ALMA WILLIAMS, B.S., Pennsylvania, M.S., Cornell. Laboratory Technician
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  LELAND E. CARMICHAEL, A.B., D.V.M., California; Ph.D., Cornell.
  John M. Olin Professor of Virology

Oswald R. Jones Laboratory (Established in honor of the late Dr. Oswald R. Jones):
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  RONALD D. SCHULTZ, B.S., M.S., Ph.D., Pennsylvania State University.
  Assistant Professor of Immunology

Richard King Mellon Electron Microscopy Laboratory (Provided by Mellon Foundation):
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Laboratory for Study of Canine Diseases (Established in honor of Dr. Hadley C. Stephenson):
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  DAVID A. BEMIS, B.S., Cornell. Research Assistant
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  Research Assistant

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  LYNN E. PERKO, A.A.S., State University of New York, Delhi.
  Laboratory Technician
  ALOA J. PETERSON, Laboratory Assistant
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  Consultant in Statistics
  ELIZABETH C. WHEELER, Laboratory Technician

COOPERATING STAFF

These doctors of veterinary medicine are contributing time and effort, without compensation, in order to secure information for the control of infectious diseases.
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  R. M. KUHN, D.V.M., Stuart, Florida
  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 FROM THE 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, 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, to record the volume and page references. Articles numbered 317-338 were completed during the past year.


ACKNOWLEDGMENTS

The Cornell Research Laboratory for Diseases of Dogs gratefully acknowledges gifts received from our contributors since September 1, 1974 in support of our research program.

INDIVIDUALS

Miss Mildred Allen  
Dr. and Mrs. Ralph Alpher  
(In Memory of Dr. Kenneth Schuyler Friderici)

Miss Rosemarie T. Antonelli  
Mrs. Leon E. Arliss  
Mr. and Mrs. Alexander E. Aubrey  
Mr. and Mrs. Kermit Axel  
(In Honor of Mrs. H. Peter Kriendler)

Miss Diana F. Bacigalupi  
Mrs. Stevens Baird  
Mrs. Dudley Baker  
Mr. and Mrs. G. H. Baker  
(In Memory of Dr. James A. Baker)

Miss Judith Bard  
Mrs. Jean Barrie  
Mrs. Barbara Barty-King  
Mr. and Mrs. Stephen D. Bechtel  
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Mr. and Mrs. Albert C. Bostwick  
Mr. and Mrs. William R. Bow  
Mr. Clarence G. Bradt  
Mrs. Marjorie M. Brandt  
Dr. and Mrs. Eben Breed  
Mr. and Mrs. Alanson C. Brown, III  
Mrs. Frederick D. Brown  
Mr. and Mrs. George A. Burpee  
(In Honor of Dr. Isidor Yasgur)

Mr. James G. Butterworth  
Miss Jill Cain  
(In Memory of Dr. and Mrs. H. Driscoll Cain)

Mrs. Andrew G. Carey  
(In Memory of Andrew G. Carey, Carino and Tesoro)

Major and Mrs. Rex V. Carr  
Mrs. Charles Z. Case  
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