Baker Institute for Animal Health
2002 Annual Report
Research Advances in Baker Institute Laboratories Today...

Are Making a Difference for Tomorrow’s Generation of Companion Animals.

Our Vision
is to serve the animals that so faithfully serve mankind.

Our Mission
is to improve animal health through basic and applied research.

Our Goal
is to be the leading institution in animal health research worldwide.

The Baker Institute for Animal Health... Advancing Veterinary Medicine through Research since 1950
Dear Friends,

A year ago I wrote to you of the progress on our building project—beginning with our June 1, 2001, groundbreaking. Less than 18 months later, on November 1, 2002, we formally dedicated our remarkable new facilities, including a state-of-the-art laboratory building and our attractive 100-seat Thaw Charitable Trust Lecture Theater. The occasion was a splendid opportunity to showcase our research space and our work on behalf of companion animals to both new and familiar friends. (For details and pictures from our dedication, see pp. 8–11.)

As director of the Baker Institute during this remarkable period of growth, I can only say how deeply proud I am of our extraordinary facilities—and the even more impressive faculty and researchers who occupy them.

In addition to the physical growth of our facilities, in 2002 we recruited two outstanding faculty members to the Baker research team: Drs. John Parker and Alex Travis (both of whom are profiled in this report), whose expertise in infectious diseases and reproductive biology, respectively, will help pave the way for future scientific advances here at the Baker Institute. As momentous as this past year has been, from the outfitting of our new laboratories to the physical changes in our landscape, I am profoundly aware that none of these accomplishments would have been possible without the generous support of our committed friends.

It is my privilege to take this opportunity, particularly in a year of so much significant change, to thank the many individuals who make our research efforts possible.

From groundbreaking work in gene therapy that restored a puppy’s eyesight to advances in canine and equine genomics, from new understandings of osteoarthritis and hip dysplasia in dogs to the prevention of infectious diseases, the Baker Institute is making a difference in the quality of life for our beloved companion animals and their owners.

I hope that if your travels ever bring you to Ithaca, you will drop in for a personal tour of the Baker campus. We welcome the opportunity to share our new space with our friends and supporters.

Sincerely,

Doug Antczak, VMD, PhD
Institute Director
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"The Baker Institute is the top research institution dedicated to improving the lives of future generations of companion animals."

—Joanne Bicknese

Greetings,

The dedication of the new facilities at the Baker Institute in fall 2002 was a milestone in the history of the institution—bringing together committed friends and individuals to celebrate the expansion as well as the tremendous research potential made possible through this physical growth.

As chair of the Institute's Advisory Council, I am pleased with the role the Council has taken to strategically guide efforts to identify new areas of growth and outreach for the Institute. Potential areas of development include renovation of the existing building to help the Institute keep pace with the physical and technological demands of modern research, in addition to the identification of several program initiatives—including the creation of endowed chairs, enhanced opportunities for visiting scientists, and the targeting of new areas of applied research. The generosity of our many friends in the private and corporate sector will be essential to the success of these future ventures, in addition to your ongoing support for the host of naming opportunities that still exist within the new facilities.

Foremost, on behalf of my fellow Council members, I want to take this opportunity to extend our gratitude for your support of the Baker Institute this past year and its important work on behalf of all companion animals.

Both my personal ties, as a devoted pet owner, and my professional association as a member of the veterinary community have helped shape my conviction that the Baker Institute and its core of dedicated scientists will have an extraordinary impact on veterinary medicine—and ultimately, our beloved pets—for generations to come.

Thank you for helping to make these crucial research advances possible. I hope that we can continue to earn your trust and confidence in the mission of the Baker Institute and its devoted efforts to provide a brighter tomorrow for the animals that are so important to the people who care for them.

Sincerely,

Joanne M. Bicknese, DVM, MS, ELS
Leaders in Their Field: 2002 Institute Awards

The Arthur F. North, Jr. Canine Service Award

The North Award—established in 1982 by friends of the late Arthur F. North, a 1935 graduate of Cornell's College of Veterinary Medicine—recognizes those whose contributions to the improvement of animal health and well-being reflect Dr. North's spirit of concern for all animals.

Mrs. Mary Sloane (BA '71) and Mrs. Judy Wilpon were named co-recipients of the Baker Institute's 2002 Arthur F. North, Jr. Canine Service Award. Both women are members of the Baker Institute's Advisory Council and were recognized for their contributions to the Black Tie & Tails gala fundraiser held in fall 2002 benefiting the Baker Institute and the Cornell College of Veterinary Medicine. Mrs. Sloane served as an event co-chair and Mrs. Wilpon served as an honorary co-chair. (For details on the event, see next page.)

Devoted dog enthusiasts, both Mrs. Sloane and Mrs. Wilpon are the proud owners of golden retrievers and are involved in activities on behalf of animal welfare and concern in their communities.

The Founders' Award

The Founders' Award is given annually to a veterinarian whose contributions to the veterinary profession as an enlightened practitioner and an advocate of Institute research exemplify the commitment of our founders to the advancement of veterinary medicine.

Dr. Hank Travis (BS '70, DVM '74) was named recipient of the 2002 Founders' Award. Former chair of the Institute's Advisory Council, he is a veterinary practitioner at the Fort Hill Animal Hospital in Huntington, New York, and a longstanding contributor on behalf of his clients to the Institute's Memorial Gift program.

Dr. Travis has been an active supporter of the Baker Institute, most recently providing valuable leadership for the building campaign. On the dedication of the Institute's new building, he remarked, “I strongly believe this will make a great organization even better. It will enable the current staff members to better pursue their scientific dreams and aspirations.”

The Order of the Labrador

Advisory Council member Robert Shope '51, MD '54 (r) accepts the 2002 Order of the Labrador Award from Institute faculty Drs. Colin Parrish and Judy Appleton at the annual Council dinner, held in conjunction with the dedication of the new building. The lifetime service award was conferred in recognition of Dr. Shope's contributions to tropical infectious disease research, particularly in the field of virology. Dr. Shope serves as professor of pathology in the Center for Tropical Diseases at the University of Texas Medical Branch in Galveston, Texas.

For a complete listing of previous Institute award recipients, visit http://bakerinstitute.vet.cornell.edu/gift/g_awards.htm.
The Pierre Hotel in New York City was the elegant setting on September 23, 2002, for Black Tie & Tails, a gala benefiting both the Cornell College of Veterinary Medicine and the Baker Institute for Animal Health. The event, a first-ever for both institutions, drew new and familiar friends and families to a celebration of the animal-human bond and raised $675,000 in support of the Institute’s research programs and the College’s oncology program.

An extraordinary corps of volunteers helped conceive, plan, and carry out the innumerable details involved for the gala evening, including event co-chairs Mary and Dean Sloane (Mrs. Sloane originally proposed the event), JoAnn and Randy Little, and Elizabeth (DVM ’95) and Charles Lynch and honorary chairs Judy Wilpon and Austin Kiplinger. Also providing key support to the event and its overall success on behalf of the Baker Institute was Advisory Council member Mrs. Darlene Klein.

In addition to dinner and dancing, the evening included both silent and live auctions. Highlighting the event was the Tribute Walk, where Cornell recognized the work of 12 service organizations that promote the human-animal bond. Large panels depicting the purpose of each organization were stationed along the walkway. Representatives of those organizations—both human and animal—were on-hand to greet guests and tell their stories.

“This was a wonderful collaboration for the Baker Institute and the College of Veterinary Medicine,” says Institute director Doug Antczak. “Black Tie & Tails provided a first-class opportunity to showcase our research programs and our faculty to an interested group of people, whom we hope will become longtime friends of our respective institutions and our work on behalf of companion animal health.”
New Laboratory Named for Albert Bostwick Foundation

A very generous gift received from Baker Institute Advisory Council member Albert Bostwick, on behalf of the Bostwick Foundation, was formally announced at the Institute’s 2003 spring Advisory Council meeting held at the Cornell Club in New York City.

In recognition of this important gift to the Institute’s Building Fund, the laboratory of Baker researcher Dr. George Lust will be renamed the Albert C. Bostwick Foundation Laboratory. Dr. Lust has devoted his scientific career to the study of canine hip dysplasia, including its cause and prevention. (To learn more about Dr. Lust’s research, see p. 28).

The Bostwick Laboratory recognizes the Bostwick family’s outstanding legacy of support for the Baker Institute. The Bostwick Foundation was established by Albert’s late father, who was an early Institute supporter. In his memory Albert, his mother, Eleanor Bostwick, and his brother, Andrew G. C. Sage II, funded the establishment of the Institute’s first molecular biology laboratory, which houses Professor Colin Parrish’s studies of canine parvovirus.

Advisory Council Listing

David Behnke
Senior Vice President
United States Trust Company of New York
New York, New York

Joanne M. Bicknese, DVM, MS, ELS (Chair)
Associate Director
Global Documentation and Dossier Management
Pharmaceutical Research Institute
Bristol-Myers Squibb Company
Princeton, New Jersey

Sarah Rockefeller Bogdanovitch
Assistant Professor of Forestry
Paul Smiths College
Paul Smiths, New York

Albert C. Bostwick, Jr.
Aiken, South Carolina

Philip B. Carter, PhD
Professor of Microbiology and Immunology
College of Veterinary Medicine
North Carolina State University
Raleigh, North Carolina

Gerald J. Chader, PhD, MD (hc)
Chief Scientific Officer
The Foundation Fighting Blindness
Hunt Valley, Maryland

Claire Fraser, PhD
President and Director
The Institute for Genomic Research
Rockville, Maryland

Richard P. Henry, DVM
General Veterinary Practitioner
Deer Park Animal Hospital
Deer Park, New York
Advisory Council Listing continued

Gerald Hickey, MVB, PhD  
Senior Director, Pharmacology  
Merck Research Laboratories  
Rahway, New Jersey

William J. Kay, DVM  
Plymouth Meeting, Pennsylvania

Joseph Kinnarney, DVM  
General Veterinary Practitioner  
Reidsville Veterinary Hospital, Inc.  
Reidsville, North Carolina

Darlene Klein  
Ithaca, New York

Robert R. Marshak, DVM, DVM (hc)  
Dean Emeritus  
School of Veterinary Medicine  
University of Pennsylvania

Frederick A. Murphy, DVM, PhD, MD (hc)  
Professor  
Department of Pathology, Microbiology, and Immunology  
School of Veterinary Medicine  
University of California, Davis

Roy V. H. Pollock, DVM, PhD (Vice Chair)  
President and CEO  
Fort Hill Company  
Montchanin, Delaware

Gene M. Pranzo, Esq.  
President  
Dorothy Russell Havemeyer Foundation, Inc.  
New York, New York

Andrew G. C. Sage II  
Wilson, Wyoming

Sara Sanders, DVM  
General Veterinary Practitioner  
Clark Animal Care Center  
Penfield, New York

Robert E. Shope, MD  
Professor of Pathology  
Center for Tropical Diseases  
University of Texas Medical Branch, Galveston

Mary Sloane  
The 12 Paws Group, L.L.C.  
Weston, Connecticut

Dina B. Tresnan, DVM, PhD  
Project Leader  
Pfizer Global Research and Development  
Groton, Connecticut

Judith Wilpon  
Lattingtown, New York

Jan A. Witkowski, PhD  
Director, Banbury Center  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, New York

In the mid-1950s Geraldine R. Dodge funded the establishment of the world's first tissue-culture laboratory for veterinary use at the Baker Institute. This technological advance made it possible to cultivate a host-specific organism like infectious hepatitis without infecting dogs, and to attenuate, or weaken, the live viruses over time in culture, thereby greatly improving the predictability and safety of vaccines.
Baker Institute Dedicates New Building in 2002

On November 1, 2002, the Baker Institute celebrated the official dedication of its new $12.5 million facilities, including a two-story contemporary laboratory building and the handsome Thaw Charitable Trust Lecture Theater (see p. 10). The 40,000-square-foot building houses 10 spacious laboratory suites with office space, tissue-culture rooms, and core space for high-tech microscopy work and offers inspiring views of the surrounding landscape.

The dedication of the new building was a historic day for the Institute. A number of Cornell officials visited the Baker campus, including President Emeritus Hunter R. Rawlings III, Board of Trustees chairman Peter Meinig, and a diverse group of Cornell friends and supporters.

The event was attended by several hundred visitors who enjoyed tours of the new laboratory spaces led by Institute staff. The day ended on a celebratory note with the annual dinner for members of the Institute Advisory Council, who were joined by Institute faculty and researchers and friends and alumni.

“I am elated that our building has finally come to fruition,” says Dr. Henry J. Travis, former chair of the Baker Institute Advisory Council and recipient of the Institute’s 2002 Founders’ Award. “I strongly believe this will make a great organization even better. It will enable the current staff members to better pursue their scientific dreams and aspirations, while helping the Baker Institute to attract keen new minds. This is what is needed to keep us competitive in today’s society.”
"One characteristic of a successful organization is its ability to evolve over time and remain vibrant and relevant to society. The Baker Institute has shown a great capacity to do just that. With the dedication of these facilities, we believe that we have a bright future."

—Istitute Director Doug Antczak

President Emeritus Hunter Rawlings, Baker Advisory Council chair Joanne Bicknese, and Dean Donald Smith join Baker beagle, Cheyenne, whose paws helped "break ground" for the Institute's construction project in 2001.

Cornell President Emeritus Hunter Rawlings addressed a standing-room-only crowd of Baker Institute friends and supporters gathered for the new building dedication in November 2002.

Nicholas Thaw, son of Eugene and Clare Thaw (center), joins (from l to r) President Emeritus Hunter Rawlings, Institute director Doug Antczak, Dean Donald Smith, and building architect William Gaudreau at the building dedication held in the Thaw Lecture Theater.

Knight Kiplinger, Mr. and Mrs. Larry (Jennifer Engel) Young, and trustee Ezra Cornell join Director Doug Antczak in the new laboratories.

Dean Donald Smith, Dr. Harold Zweighaft, DVM '56, and Peter Meinig, chairman of the Cornell University Board of Trustees
Thaw Charitable Trust Provides Lecture Theater

The Thaw Charitable Trust Lecture Theater—a stunning architectural landmark of the Baker Institute’s building project—was the site for the formal dedication ceremony of the new building in fall 2002.

The impressive space, which includes an elegant lobby and state-of-the-art lecture theater, was made possible through the generosity of Eugene and Clare Thaw and the Eugene V. and Clare E. Thaw Charitable Trust in Santa Fe, New Mexico.

Best known for its avid support of the arts and a number of animal welfare organizations in the western United States, the Thaw Charitable Trust established the Thaw Conference Fund at the Baker Institute in 1986. The substantial leadership gift made by the Thaw Trust toward the construction of the Institute’s new lecture theater builds on the committed support of the Thaw Charitable Trust to the Baker Institute and the ongoing success of the Institute’s veterinary conferences and symposia.

The Thaw Charitable Trust Lecture Theater provides an on-site venue for scientific colloquia and meetings, student seminars, and a multitude of educational outreach programs. Since its dedication, a number of public events have been hosted in the lecture theater, including the Institute’s lunch-time scientific seminar series and meetings for area kennel and breed clubs. In June 2003, the Thaw Lecture Theater served as the primary venue for an international conference on genomic applications to equine immunity convened by the Dorothy Russell Havemeyer Foundation, Inc.

Take a Seat: Lecture Theater Campaign

Individual lecture seats in the auditorium of the Thaw Charitable Trust Lecture Theater are available for sponsorship. The blue-cushioned seats with their distinctive custom nameplates provide a lasting tribute that visitors to the Baker Institute will appreciate and notice for generations to come. Nameplates are available for inscription, in honor or memory of a beloved companion animal or friend, for $2,000 each.

To date, more than one-quarter of the theater’s 100 seats have been reserved—many by participating veterinarians in the Baker Institute’s Memorial Gift Program. To learn more about the Baker lecture seat campaign or other naming opportunities at the Institute, contact Ms. Amy Gush at (607) 256-5661 or via e-mail at adg25@cornell.edu.
"I think dogs are the most amazing creatures; they give unconditional love.
For me they are the role model for being alive."
—Gilda Radner

Lecture Seat Sponsorships

Lecture seats have been generously sponsored in the names of the following people (as of 12/31/02):

Douglas F. Antczak, PhD, VMD
Baker Faculty
In memory of Francis A. Antczak, DMD

Judith Appleton, MS, PhD, and
Donald Schlaffer, DVM, PhD
Baker Faculty and College Faculty
James and JoAnna Appleton

Harvey S. Atlas, DVM
Participant, Memorial Gift Program
Sandra and Harvey Atlas

Philip B. Carter, PhD
Baker Advisory Council
Philip B. Carter, PhD

Jean and Eugene Ceglowski, DVM
Participants, Memorial Gift Program
Jean Ceglowski, DVM ’67, and Eugene Ceglowski, DVM ’67

Harold J. Cummings, DVM
Baker Donor
Dr. Harold J. Cummings

G. Clayton Dudley, DVM
Participant, Memorial Gift Program
Clayton and Georgia Dudley

Mr. and Mrs. George D. Edwards
Baker Donors
In Memory of Dr. and Mrs. Charles E. Fletcher

Mrs. Jane V. Engel
Baker Donor
In Honor of Jennifer Engel Young

Claire G. Engle ’53
Baker Donor
In Memory of Joseph B. Engle, DVM ’26

Alan Ferber, DVM
Participant, Memorial Gift Program
R. Ferber ’39 L. Ferber ’43
A. Ferber ’50 M. Ferber ’66

Robert Ferber, DVM
Participant, Memorial Gift Program
In Memory of My Wife Ruth
Robert Ferber, DVM ’39

Francis H. Fox, DVM
Baker Donor
In Honor of Francis H. Fox, DVM ’45

Ferris G. Gorra, DVM
Participant, Memorial Gift Program
Ferris G. Gorra, DVM ’67

John A. Hauge, DVM
Participant, Memorial Gift Program
Dr. and Mrs. John A. Hauge

Richard P. Henry, DVM
Baker Advisory Council
Participant, Memorial Gift Program
Richard P. Henry, DVM ’68

Gary W. Johnson, DVM
Participant, Memorial Gift Program
Gary W. Johnson

William J. Kay, DVM
Baker Advisory Council
William J. Kay, DVM

Nancy O. Brown, VMD

Donna M. Manderino, DVM
Participant, Memorial Gift Program
Dr. Donna and Mr. Louis Manderino

Lawrence C. Mauer, DVM
Participant, Memorial Gift Program
Lawrence C. Mauer, DVM ’70

Philip R. Reilly, BA ’69, MD, JD
Baker Donor
In Honor of Lorraine Tallman Kelly

Mary and Dean Sloane
Baker Advisory Council
In Honor of Joshua P. Shepard

Jonathan P. Walker, DVM
Participant, Memorial Gift Program
Jonathan Walker ’67

Mr. and Mrs. W. Weldon Wilson
Baker Donor
In Memory of Our Darling Andy

Walter W. Zent, DVM
Baker Donor
Walter Zent, DVM ’63

Harold M. Zweighaft, DVM
Participant, Memorial Gift Program
Harold M. Zweighaft, DVM ’56

Former Baker Institute development director Bonnie Baker (center) receives a framed print by Ithaca artist Susan Titus from Baker Advisory Council chair Joanne Bicknese (pictured with Institute director Doug Antczak). The farewell gift was presented at the Institute’s annual Advisory Council dinner in fall 2002 in recognition of Ms. Baker’s fund-raising efforts for the Institute, including her leadership role with the building campaign.
New Faculty at the Baker Institute

From New Cures for Infectious Diseases to Cancer Treatment: In Search of Viral Pathways

John Parker, BVMD, PhD, is no stranger to the Cornell campus or the Baker Institute. Parker refined his early research interests as a postdoctoral student working in the laboratory of Colin Parrish, professor of virology at the Baker Institute, assisting his studies of canine parvovirus.

Parker says his entry into veterinary medicine was partly a rebellion to following in his grandfather's and father's footsteps as a medical doctor. He grew up with animals and had an early interest in science and this led to his interest in veterinary medicine.

Originally from Scotland, Parker graduated from Glasgow University and was a practicing veterinarian in Australia for ten years before deciding to continue his scientific studies in virology. After working briefly as a consultant at the Cornell Feline Health Center in 1993, he accepted a post as a graduate research assistant in Parrish's laboratory, where he continued as a postdoctoral fellow after completing his PhD in 1999.

Most recently, Parker worked alongside renowned virologist Max Nibert as a postdoctoral research fellow in the Department of Microbiology and Molecular Genetics at Harvard Medical School before returning to the Institute in early 2003 as a new faculty member.

While at Harvard, Parker developed his particular interest in reoviruses, one of the most studied viral model systems for understanding basic questions regarding the cellular pathology of viral infection.

His research addresses how the double-stranded RNA reoviruses (a naturally occurring virus believed to cause mild infections of the upper respiratory and gastrointestinal tract in humans and many animals) replicate and assemble within the cytoplasm, the area between the cell membrane and the nuclear envelope, of infected cells.

Cells infected with reoviruses have large inclusions within their cytoplasm. These inclusions, or "viral factories," says Parker, are the sites of new viral particle assembly and transcription of the viral genome. Parker has done seminal work to reveal how viral factories assemble and interact with the cytoskeleton of infected cells, identifying two viral proteins sufficient to form the matrix or infrastructure of the factories.

Parker is particularly interested in the development of reoviruses as potential new treatment modalities for cancer in both animals and humans. His work builds on research conducted by Canadian scientists in the late 90s who discovered that mammalian reoviruses infect and kill cancer cells without affecting normal cells in mice. Parker is hoping to expand the virus' ability to target cancer cells, destroying them preferentially over non-cancerous cells, in companion animals and potentially humans.

"People who say there is no creativity in science are wrong," says Parker. "The creativity comes at the point you have to imagine the hypothesis. You take one set of facts and a question; then you imagine a potential answer to the question; and finally, you design experiments to test if your answer is correct or not."

"In private practice, I did what I could to treat the animal and it either got better or it didn't. Often you didn't know why and that was frustrating."

—Dr. John Parker
From Reproductive Research to Applied Technologies: Conserving Species for the Next Generation

In addition to being a scientist studying reproductive biology, Alexander Travis, VMD, PhD, describes himself as a veterinarian with a passion for wildlife conservation. His interest in animals prompted a course of scientific study that has embraced topics ranging from ecology and field biology to wildlife conservation and cellular biology.

Prior to his arrival at the Baker Institute in December 2002, Travis was at the University of Pennsylvania, where he served most recently as a research associate at the Center for Research on Reproduction and Women's Health. While there, the National Institutes of Health awarded Travis a highly competitive five-year Special Emphasis Research Career Award, which he is now completing at the Institute.

“My laboratory investigates the fascinating biology of male germ cells,” says Travis. “For life to be transmitted from one generation to the next, the male germ cell must undergo a complex process of differentiation within the male as it becomes a sperm, and then mature functionally within the female reproductive tract during a process known as capacitation.”

Despite the germ cell’s importance, Travis says remarkably little is known about many aspects of its biology at either the cellular or molecular level. “We know some of the external stimuli and some of the functional changes that are needed for the sperm to fertilize, but how you link those things is completely unknown.” One area of research in his laboratory is, therefore, to identify precisely how these stimuli affect signaling and metabolic pathways in sperm.

Key to Travis’ efforts has been his identification in sperm of specific membrane sub-domains, known as “lipid rafts,” which act to organize signaling pathways. “The sperm have to experience changes in both the head and the tail before they acquire the ability to fertilize. These rafts might be coordinating how the cells do that,” he says.

Travis is translating his work to applied technologies, including methods to preserve spermatogonial stem cells, which can replenish themselves on a renewable basis, and testis grafting to preserve the genetics of endangered species. Such innovative techniques can be used to improve agriculture and pharmaceutical production. There are potential applications to human health as well, including hope for young patients with testicular cancer who face infertility at an early age.

“You go into science to do good work and make a difference. The Institute fosters that kind of attitude and ideal.”

—Dr. Alex Travis

Dr. Alex Travis, assistant professor of reproductive biology
Achievements:
Research Highlights

In Profile: Research at the Baker Institute

Research associate bridging two cultures in her study of the silver fox

Research Associate
Anna Kukekova arrived at the Baker Institute in 1999 to pursue her interest in canine genetics in the Inherited Eye Disease Studies Unit working with Drs. Greg Acland and Gus Aguirre. While here, Kukekova’s focus turned to a project with roots in her homeland of Russia.

In an unparalleled experiment in the Institute of Cytology and Genetics (ICG) of the Russian Academy of Sciences, under the direction of Dmitry Belyaev and Lyudmila Trut, a strain of silver foxes with behavioral patterns similar to the domestic dog has been developed as a result of four decades of selective breeding for tame behavior. Tame foxes demonstrate emotionally friendly responses to humans from one month of age; they eagerly establish human contact and whimper to attract attention, sniffing and licking like dogs. In contrast, breeding the foxes for wild type behavior led to the development of a population of aggressive and difficult-to-handle animals.

Because these genetically determined behavioral differences segregate in very large pedigrees of a single species, Kukekova says they offer an unprecedented opportunity to map and identify the genes responsible. The speed with which the tame fox population has occurred suggests that selection in these foxes may be acting on a few genetic loci that control development of the behavioral phenotype.

Kukekova first learned of the historic fox experiment while an undergraduate at St. Petersburg State University in Russia. In 2001, an article in the journal Nature, describing the plight of the colony if additional resources were not identified, captured her interest.

Kukekova contacted Trut, and together they developed a plan to maintain the program and initiate a complex genetic study of tame and aggressive fox behavioral phenotypes. A year later they received a grant from the North Atlantic Treaty Organization. Most recently, Kukekova applied to the National Institutes of Health and National Alliance for Autism Research to secure funds. The project involves researchers in Russia and the United States, including canine geneticists at Cornell and the University of Utah.

"The study has several big attractions for Anna, including her interest in canine genetics and her Russian background," says Acland. "It’s a terrific match of both her professional and personal interests."

As a result of her collaboration with the ICG, Kukekova is gathering valuable genetic data to assist with mapping the fox genome as well as the genes for tame and aggressive behavior.

Kukekova has traveled to Russia to visit the fox colony several times since starting her study, carrying a digital camera to record her observations. The images are converted to movie clips, enabling Institute researchers located a continent away to view the behavioral traits of the colony. These clips are helping to establish a visual archive and preserve the diversity of genetic information for future studies.

To learn more, visit: http://cbsu.tc.cornell.edu/ccgr/behaviour/index.html.
Visiting Scholars and Scientists Bring Global Perspective to Institute

In 2002, the following individuals furthered their research studies at the Baker Institute as visiting scholars and scientists from their respective institutions.

Dorothy Ainsworth, DVM, PhD
Visiting Scientist
Dr. Dorothy Ainsworth spent a sabbatical leave in Dr. Antczak’s equine immunology laboratory in 2002. She is a professor of medicine in the Large Animal Medicine section in the Cornell University Hospital for Animals. Dr. Ainsworth is a specialist in lung disease of the horse; her research has involved immunological aspects of allergic respiratory reactions in horses, a condition commonly known as “heaves.” Since the beginning of her collaboration with the Baker Institute, Dr. Ainsworth has obtained a national USDA research grant and a senior fellowship from the National Institutes of Health.

"As a clinician, it is extremely difficult to stay abreast of the basic science fields as well as the recent developments in clinical medicine. Having a collaboration of this nature allows a sharing of knowledge and techniques that ultimately helps to advance the field of veterinary medicine," says Ainsworth.

John Randolph, DVM
Visiting Scientist
Dr. John Randolph initiated his sabbatical leave year in fall 2002 in Dr. James MacLeod’s laboratory. He is a professor of medicine in the Small Animal Medicine section in the Cornell University Hospital for Animals, and has long-standing interests in endocrinology and kidney disease. An important component of chronic renal failure is

"My time at the Baker Institute has provided me with an outstanding learning experience that has enabled me to grow as a research scientist."

—Dr. John Randolph, Visiting Scientist, Baker Institute

Naoki Miura, DVM, PhD
Postdoctoral Fellow
Dr. Naoki Miura, a visiting scholar from Japan where he received his veterinary degree and served as a postdoctoral research fellow at Kagoshima University, began his work with Dr. James MacLeod in the Laboratory of Cellular Growth and Differentiation to further their studies of joint disease, particularly in racehorses. His primary focus is determining whether fibronectin, a fundamental component of cartilage, can be used diagnostically as a biomarker of osteoarthritis.

Naoki and his family relocated to the University of Kentucky with Dr. MacLeod in May 2003, where he is continuing his cartilage studies as a postdoctoral scholar.

“I felt very comfortable pursuing my research experiments at the Baker Institute because of the wonderful working environment,” says Miura. “I was able to concentrate on my scientific experiments and look forward to new results every day.”

continued on next page
Drs. Randolph and MacLeod have formed an outstanding basic scientist-clinician partnership in developing recombinant biological engineered erythropoietin for use in cats and dogs. It is hoped that these products will be widely available in the future.

“This type of collaboration allowed each of us to contribute from our area of specialization while learning from the talents of the other, and resulted in the development of a therapy to improve the health and welfare of companion animals,” says Randolph.

**Bettina Wagner, VMD**

Visiting Professor

Dr. Bettina Wagner is a visiting professor from the School of Veterinary Medicine in Hannover, Germany, and became a vital member of Institute director Doug Antczak’s equine immunology laboratory in 2002. During her tenure at the Institute, Dr. Wagner has been focusing on research closely related to allergy and its basic mechanism. In particular, she has worked on the expression of rare antibodies in the horse to further her investigations of equine allergic diseases, such as heaves or summer eczema.

"Academic exchange offers new possibilities and experiences. The contacts and collaborations resulting from a sabbatical or other types of exchanges are important, even after the exchange program," says Wagner. "This is especially true in the relatively small field of veterinary immunology, where only a few people around the world are working on related projects. Academic collaboration is necessary to make research more efficient."

**Baker Institute Featured in National Public Television Series**

The Baker Institute and its groundbreaking research in the field of animal genetics were featured in two episodes of a newly created public television series, *Secrets of the Sequence*, launched in 2002. The weekly television series explores current discoveries in the life sciences. These continuing programs, which air on public television stations nationwide, are designed to bring viewers up to speed on the astounding discoveries emerging every day from laboratories around the world.

*Secrets of the Sequence* episode 114 on “Pet Genetics” featured Baker Institute faculty member Dr. Gus Aguirre and his work with genetic eye diseases in dogs, along with Dr. George Lust and his career study of canine hip dysplasia. Episode 117 on “Animal Ancestry” featured Baker Institute director Doug Antczak and his research advances with the horse genome project and contributions to the field of equine medicine.

To learn more about the television series or to order a copy of the featured episodes, visit http://www.wardtv.com/sequence1.htm.
Baker Institute hosts student summer researchers

Each year the Baker Institute is host to undergraduate and veterinary students who spend their summers learning what it is like to be a research scientist in a veterinary medical environment. The students come from Cornell, of course, but also from universities all across the globe to work side-by-side with Baker Institute faculty, staff, and graduate students. The summer students compete for positions as Cornell Presidential Research Scholars and Havemeyer Foundation Summer Fellows or for places in the Cornell Veterinary College Leadership Program. All three of these programs are highly competitive, and the students are motivated to make the most of their short stays at the Institute. Participants in these programs are highly likely to continue in careers in biomedical research, many of them in veterinary medicine, and some of the program graduates are already beginning to make a mark in their chosen professions. The Institute is fortunate to enjoy the support of the programs that make these formative student experiences possible.

Baker Institute Hosts Renowned Reproductive Expert Roger Short

Director Doug Antczak (I) visits with world-renowned scientists Roger Short, a reproductive physiologist, and primatologist Jane Goodall during their visit to the Cornell campus in spring 2002 as A.D. White Professors-at-Large. Dr. Short, Wexler Professorial Fellow in the Department of Obstetrics and Gynecology at the Royal Women's Hospital, University of Melbourne, was a distinguished visiting scientist at the Baker Institute during his Cornell stay and spoke on his lifelong research studies in the field of reproduction.

Degrees Conferred

In 2002, the following individuals earned their doctoral degrees from Cornell while conducting research in Baker Institute laboratories:

Hao Chen (faculty advisor: James MacLeod), conferred May 2002
Title: "Biochemical and Functional Properties of the Cartilage-Specific (V+C)- Fibronectin Isoform"
Current position: Postdoctoral Research Fellow, Department of Developmental Biology, Stanford University, Palo Alto, California

Julia Flaminio (faculty advisor: Doug Antczak), conferred August 2002
Title: "Modulation of the Equine Maternal Immune System by Trophoblast Cells"
Current position: Assistant Professor of Medicine, Large Animal Medicine, Department of Clinical Sciences, College of Veterinary Medicine, Cornell University

Rina Gendelman (faculty advisor: George Lust), conferred May 2002
Title: "In Search of Function for Cartilage-Specific (V+C)- Fibronectin Isoform"
Current position: Senior Scientist, Gene Network Sciences, Ithaca, New York

Visiting students at the Baker Institute in summer 2002 (back row, from l to r): Jackie Fremont, Barbara Taennler, Kathleen Bonawandt, Steven Laing, Catherine Wood, and Jean-Yin Tan. (front row, from l to r): Anne Lo, Janee Carr, Michael Mienaltowski, and Debdut Biswas.

Not pictured: Justin Brucker Beth Forrestel, Anna Hochstedler, Beth Pellegrini, and Jeremy Sykes.
In Our Laboratories: Faculty at the Baker Institute

Greg Acland, BVSc
Senior Research Associate
Research Profile

Dr. Greg Acland is focused on providing improved eyesight to dogs suffering from hereditary disorders that affect the eye through genetic study. His studies of canine ocular disorders are conducted in partnership with Dr. Gus Aguirre (see pp. 20–21) in the Inherited Eye Disease Studies Unit at the Baker Institute.

The aim of the research is to develop genetic tests that can identify carriers and affected dogs before they are bred and test potential therapies for canine hereditary retinal disorders. The work is of importance to breeders worldwide, as recessive genes in popular dog lines can become embedded in a breed very quickly and are difficult to eliminate.

Dr. Acland works closely with Dr. Aguirre to develop DNA-based tests for the rod-cone dysplasia 1 form of progressive retinal atrophy in a number of dog breeds. For example, his efforts with the Collie Eye Anomaly (CEA) research project have provided benefit to collies and their owners. CEA is a disorder of the deep structures of the eye that affects collie breeds around the world and occurs commonly in the Border collie, rough collie, smooth collie, and Shetland sheepdog.

Since 1989, Dr. Acland also has served as director of the Retinal Disease Studies Facility in the New Bolton Center at the University of Pennsylvania’s School of Veterinary Medicine in Philadelphia. This location is where Dr. Acland, working with Dr. Aguirre and fellow project collaborators onsite, has assisted much of the ongoing research with Lancelot, the Briard dog that gained international fame after having his sight restored as a puppy through the use of gene therapy (see sidebar).

Groundbreaking studies such as these are instrumental in sustaining research to benefit canine eye health and provide hope for a brighter tomorrow for dogs everywhere.

To learn more about Dr. Acland’s research, visit http://bakerinstitute.vet.cornell.edu/research/acland/r_gen_dev_acland.htm

Laboratory Highlights in 2002:
Dr. Greg Acland, joined by Dr. Gus Aguirre and members of their laboratory in the Inherited Eye Disease Studies Unit, presented nine papers on varying topics outlining their recent advances in gene therapy and eye-related research at the annual meeting of the Association for Research and Vision in Ophthalmology, the preeminent international eye research meeting, held in Fort Lauderdale, Florida, in May.
We have shown that gene therapy can restore vision in dogs with one of the most clinically severe retinal degenerations.

—Greg Acland

Lancelot continues to see well, remains model dog for improved eyesight in humans.

It is a remarkable story of research success: Well over two years after their first gene therapy treatment that made headlines around the world, Lancelot and his Briard littermates continue to see well. The revolutionary gene therapy technique performed in May 2001 that restored sight to these fortunate puppies was made possible through research developed at the Baker Institute in collaboration with researchers at the University of Pennsylvania and the University of Florida.

Objective measurements with electroretinogram tests have revealed no loss of visual function. With the success of this initial experiment, Baker faculty members Drs. Greg Acland and Gus Aguirre and collaborators next tested the treatment in animals from different litters, delaying treatment for up to 11 months. All of the treated dogs experienced visual improvement. These promising results in dogs offer great hope for human sufferers of a similar form of childhood blindness, Leber congenital amaurosis.

In addition to these pre-clinical studies, researchers must produce the vector to be used in humans under stringent Food and Drug Administration (FDA) guidelines. The focus now, says Dr. Aguirre, is to develop and ensure the safety of the virus that is being put in the eye. To achieve that goal, Drs. Aguirre, Acland, and their collaborators at the University of Pennsylvania and University of Florida met with the FDA and related government agencies in the summer of 2003 to review and implement plans for phase one clinical trials that will be carried out at the University of Pennsylvania.

"Assuming there are no unexpected complications with Lancelot and his cohorts, and that what has been injected into their eyes continues to be effective and cause no problems, we hope that within two to three years human patients will be involved in the first phase one clinical trial," says Dr. Aguirre.

Research Awards Active in 2002:

"Models of Hereditary Retinal Degeneration" (Principal Investigator) (Gus Aguirre, Co-Investigator)
Sponsor: NIH\(^1\)-NEI\(^2\)

"Gene Therapy for Leber Congenital Amaurosis" (Principal Investigator) (Gus Aguirre, Co-Investigator)
Sponsor: NIH - University of Florida consortium agreement

Collaborative Research Agreement (Principal Investigator) (Gus Aguirre, Co-Principal Investigator)
Sponsor: The Institute for Genomic Research, Inc.

\(^1\)NIH: National Institutes of Health
\(^2\)NEI: National Eye Institute

Dr. Acland reviews experiment results with research associate Anna Kukekova.
A 2002 report issued by the National Eye Institute states that "more Americans than ever are facing the threat of blindness from age-related disease."

Among those affected are the estimated 100,000 people in the United States who currently suffer vision loss and blindness from retinitis pigmentation (RP)—a group of retinal degenerations inherited in human families. X-linked progressive retinal atrophy (PRA) is one of the most common forms of the disease.

Helping both dogs—and humans—overcome these devastating retinal disorders is Dr. Gus Aguirre with the Inherited Eye Disease Studies Unit. Dr. Aguirre and researchers in his laboratory are pursuing multiple projects related to the inheritance of retinal degeneration in dogs, humans, and other mammals.

A primary focus is to identify the genes and locate the mutations associated with several separately inherited forms of PRA, a significant disease of dogs that is the equivalent of the devastating disease RP in humans. X-linked RP is one of the major causes of human retinal blindness.

In 2002, major advances in Dr. Aguirre’s laboratory were made involving several dog breeds, including the Siberian husky and the Samoyed as well as the English mastiff. These new insights provide a valuable new animal “model” for studying causes and testing treatments for inherited human blindness.

In particular, the English mastiff, a breed that sometimes carries the gene defect for PRA, has been revealed as a key animal model to help explain RP in humans. The dogs can be used to test possible therapies for the disease, according to Dr. Aguirre and his Baker colleagues along with researchers at the University of Pennsylvania’s Scheie Eye Institute. The findings were reported in the Proceedings of the National Academy of Sciences (2002, Vol. 99, No. 9).

One result of the discovery is a genetic screening test to help breeders eliminate the defective gene from their lines of the purebred dogs. Studies are continuing on dogs with the defective gene (the RHO gene) to determine what non-genetic or environmental factors influence the disease’s progression. Such information will help researchers design treatments to halt, reverse, or even prevent some RP blindness in humans—experimental therapies that may prove helpful to both man and the dog.

In a related study, the discovery of the two different mutations for X-linked progressive retinal atrophy (XLPRAt and XLPRAt2) in dogs, as reported in Human Molecular Genetics (2002, Vol. 11, No. 9), will provide new gene-screening tests for dogs and aid in the detection of disease-prone animals in dog breeding programs. Both XLPRAt and XLPRAt2 are part of the PRA family of inherited retinal degenerations in dogs.

The disease XLPRAt is present in both the Siberian husky and Samoyed breeds, and the mutations are the same, suggesting that the mutation may have been present in a common canine ancestor before the two breeds developed.

Another important discovery for Dr. Aguirre, along with Drs. Acland and D. J. Sidjianin in his laboratory, was the identification of the gene and mutation responsible for achromatopsia—or cone degeneration—in the dog (as reported in Human
These advancements in gene therapy hold tremendous promise for application in treating both dogs and humans who suffer from devastating eye diseases."

---Gus Aguirre

Molecular Genetics, 2002, Vol. 11, No. 16). Achromatopsia is a reference to the total absence of color vision that accompanies the condition in the dog and man. The discovery—the result of a career study on Dr. Aguirre's part to track the gene—represents one of the most fascinating genetic parallels of man and dog, an inherited dayblindness that strikes Alaskan malamutes and a group of Pacific Islanders called the Pingelapese. (The human condition and plight of the Pingelapese was documented in acclaimed neurologist and former Cornell A. D. White Professor Oliver Sacks' book, The Island of the Colorblind.)

To learn more about Dr. Aguirre's research, visit http://bakerinstitute.vet.cornell.edu/research/aguirre/r_gen_dev_aguirre.htm

Laboratory Highlights in 2002:

Drs. Barbara Zangerl and Anna Kukekova in the Inherited Eye Disease Studies Unit were promoted from postdoctoral associates to research associates. In April, Dr. Aguirre spoke on the "Relevant Animal Models for Establishing Pre-Clinical Efficacy and Safety for RP and Juvenile Macular Degeneration," in Paris, France.

He presented a guest lecture on "Inherited Retinal Diseases in Dogs" at the Advances in Canine and Feline Genomics Conference held in St. Louis, Missouri, in May.

In July, Dr. Aguirre traveled to Toronto, Canada, where he presented two guest lectures, "Models, Mutants, and Man: Genetic and Genomic Studies of the Canine Models of Inherited Retinal Degeneration," and "Experimental Approaches for the Treatment of Retinal Degenerative Diseases," at the Hospital for Sick Children, where he also was named the Lloyd Morgan Visiting Professor.

Dr. Aguirre spoke on "Gene Therapy in the Canine Model of Leber Congenital Amaurosis" at the World Congress of Retina International held in Chiba, Japan, in August.

He presented a keynote lecture, "From the Bench to the Bedside: Experimental Approaches for the Treatment of Retinal Degenerations," at an international conference on Treatment Strategies for Retinal Degeneration held in Lund, Sweden, in September.

Research Awards Active in 2002:

"Search for Novel Genes and Mutations in the RP3 Interval" (Principal Investigator)
Sponsor: NIH-NIE1

"ERG Equipment for Dog Colony" (Principal Investigator)
Sponsor: Foundation Fighting Blindness

"Molecular Genetic Studies of Canine Progressive Retinal Atrophy" (Principal Investigator)
(Greg Acland, Duska Sidjanin, Co-Investigators)
Sponsor: Morris Animal Foundation

"Identification of the Gene Mutations Responsible for Canine Cone-Rod Dystrophies and Development of DNA-Based Diagnostics" (Principal Investigator)
Sponsor: Cornell Center for Advanced Technology

"Developing Canine Models of adRP, arRP, and XLRP" (Principal Investigator)
Sponsor: Foundation Fighting Blindness

"The Foundation Fighting Blindness Pre-Clinical Medical Therapy Evaluation Center (Cornell Module)" (Principal Investigator)
(Greg Acland, Co-Principal Investigator)
Sponsor: Foundation Fighting Blindness

Linda Hunter (Mentor: Gus Aguirre)
"Molecular Studies of a Novel Canine Cataract Model"
Sponsor/Division: NIH-NIE1

Duska Sidjanin (Aguirre Laboratory)
"Molecular Studies of Hereditary Cataracts in Golden and Labrador Retrievers" (Principal Investigator)
(Greg Acland, Gus Aguirre, Co-Investigators)
Sponsor: Morris Animal Foundation

"Positional Cloning of the Coraliform Cataract Locus (Coc) in Mice" (Principal Investigator)
Sponsor: Fight for Sight

Barbara Zangerl (Aguirre Laboratory)
"Gene Expression Studies in PRA-Affected Miniature Poodles" (Principal Investigator)
(Greg Acland, Gus Aguirre, Co-Investigators)
Sponsor: Laura J. Niles Foundation

1NIH: National Institutes of Health
2NEI: National Eye Institute
The Equine Genetics Center at the Baker Institute, under the direction of Dr. Doug Antczak, has been making significant strides for nearly a quarter century in the understanding of important issues related to equine immunology. The application of immunology to issues in the equine industry is broad, ranging from the ability to provide veterinarians accurate diagnostic tools to better management practices to control chronic allergic reactions.

In particular, researchers in Dr. Antczak's laboratory are studying the complex interactions between mother and fetus in an effort to better understand the biological interactions that take place during pregnancy. Dr. Antczak is particularly interested in how the placenta and fetus avoid recognition and destruction by the maternal immune system. New understandings in this area have potential application to biology and medicine, including organ transplantation and cancer biology.

Data gathered from immunological studies at the Institute are providing new insight for the Horse Genome Project as well. The Institute has a leadership role in this international collaborative effort to develop a comprehensive linkage map of the horse. Such a map will assist studies of inherited diseases and effects of genes on performance traits. The genetic information also aids in the development of new breeding strategies. These efforts are all aimed at improving the health and welfare of the horse.

To learn more about Dr. Antczak's research, visit bakerinstitute.vet.cornell.edu/research/antczak/r_idi_antczak.htm

**Laboratory Highlights in 2002:**

Dr. Bettina Wagner joined Dr. Antczak's laboratory as a visiting professor from the School of Veterinary Medicine in Hannover, Germany. To learn more about Dr. Wagner's research, see p. 16.

In March, Dr. Antczak served on a panel of equine veterinarians and researchers who addressed "Genome Research for the Horse Industry" at the Blue Ribbon (Genome) Panel held in Dallas, Texas.

Dr. Antczak was co-chair of the American Association of Veterinary Immunologists' (AAI) Guest Society Symposium on "Naturally-Occurring Domestic Animal Models of Primary Immunodeficiency Disease" held in April in New Orleans, Louisiana. Dr. Antczak serves as chair of the AAI's Veterinary Immunology Committee.

Dr. Antczak spoke on the "Confrontation and Accommodation at the Fetal-Maternal Interface" at the Frontiers in Reproduction 5th Annual Symposium held in Boston, Massachusetts, in June.

Dr. Antczak joined colleagues from Cornell as a delegate for Brain Korea 21, an international collaborative program between Seoul National University (SNU) and Cornell University. Dr. Antczak spoke on the topic of "Comparative Genomics of Domestic Animals at Cornell," at the 2nd Joint Seminar on Agricultural Genomics held at SNU's School of Agricultural Biotechnology in Seoul, Korea, in June.

Before arriving in Korea, Dr. Antczak first traveled to Japan, where he delivered several invited seminars.

In July, Dr. Antczak attended the 8th International Symposium on Equine Reproduction held in Fort Collins, Colorado. The meeting brings together scientists and veterinarians from around the world and provides a forum for information...
"Because of the wealth of information available from the Horse Genome Project, genetics will have an overriding influence on all aspects of equine research."

—Doug Antczak

exchange on clinical and basic research aspects of equine reproduction.

Dr. Antczak was a featured speaker on “The Promise of Equine Genomics” at The Jockey Club’s 50th Round Table Conference on Matters Pertaining to Racing held in Saratoga Springs, New York, in August.

Dr. Antczak has served on the National Institutes of Health Study Section for Human Embryology and Development since 1999.

**Research Awards Active in 2002:**

“Comparative Studies of Pregnancy and Histocompatibility” (Principal Investigator)
Sponsor: NIH\(^1\)-NICHD\(^2\)

“A BAC Library for the Horse”
(Principal Investigator)
Sponsor: USDA Regional Project Program

“Accelerated Regression of Endometrial Cups and eCG” (Principal Investigator)
Sponsor: Grayson-Jockey New Club

“Functional Genomics for the Horse”
(Principal Investigator)
Sponsor: Morris Animal Foundation – University of Kentucky consortium agreement

“Horse Genome Project” (Principal Investigator)
Sponsor: Harry M. Zweig Memorial Fund for Equine Research

“Influence of an Underlying Immune Environment on the Subsequent IgG Isotype Response to a Foreign Antigen” (Co-Investigator)
(Dorothy Ainsworth, Principal Investigator)
Sponsor: Harry M. Zweig Memorial Fund for Equine Research

“Immune Dysfunction in Horses with Recurrent Airway Obstruction (RAO)” (Co-Investigator)
(Dorothy Ainsworth, Principal Investigator)
Sponsor: USDA

**Bettina Wagner (Fellow)**
Sponsor: Max Kade Foundation

**Paige Adams (mentor: Doug Antczak)**
“Ectopic Transplantation of Invasive Trophoblast”
Sponsor/Division: NIH\(^1\)-NICHD\(^2\)

1NIH: National Institutes of Health

2NICHD: National Institute of Child Health and Human Development

Dr. Antczak discusses a research project with Rebecca Tallmadge, a graduate student in his laboratory
Judy Appleton, MS, PhD

Professor of Immunology

Research Profile

Researchers in Dr. Judy Appleton’s Mucosal Immunity Laboratory focus on the development of host-parasite infections—in particular, *Trichinella spiralis*, the cause of the human disease trichinosis, and *Parelaphostrongylus tenuis*. The *P. tenuis* parasite is a significant cause of neurological diseases in llamas (as well as alpacas, goats, and sheep) in the eastern United States. Studies of such pathogens are yielding new information regarding infectious disease transmission and immunity in the intestine.

Unlike most other pathogens, *Trichinella* is not restricted in its choice of host. Dr. Appleton’s studies of this well-known pathogen, first observed in man in 1835, are helping to expand knowledge of the basic nature of infectious diseases—in particular, how one organism is parasitized by another.

Investigation of parasitism at the cellular and molecular levels has been challenging up to now, says Dr. Appleton, due to the lack of tools available for in vitro cultivation. In collaboration with researchers in her laboratory, Dr. Appleton has discovered that inoculation of *T. spiralis* larvae onto cultured intestinal epithelial cells provides a viable medium for maturation of the larvae to adulthood and, ultimately, reproduction. The development of this new laboratory model offers scientists the opportunity to observe in greater detail the pathogen and its intracellular habitat.

Lessons learned in immunity to *Trichinella* are being applied to Dr. Appleton’s second area of study: the development of a vaccine and diagnostic test for *P. tenuis*. It is a project that has personal roots for the Baker researcher—four sheep on her home farm died from the infection several years ago. *P. tenuis* is aggressive in its infection, often causing paralysis in affected animals by damaging the spinal cord. Few animals recover with treatment; therefore, the need for a vaccine is considerable.

Dr. Appleton is optimistic about the development of a vaccine to prevent the devastating disease caused by *P. tenuis*, a common parasite of white-tailed deer. She says the target population would expand beyond the llama to include goats and sheep.

Advances in Dr. Appleton’s research studies of these two pathogens may one day result in valuable new diagnostic and preventive tools for breeders of exotics as well as broader understandings of the transmission of infectious diseases in animals and humans.

To learn more about Dr. Appleton’s research, visit http://bakerinstitute.vet.cornell.edu/research/appleton/r_idi_appleton.htm

**Laboratory Highlights in 2002:**

Dr. Appleton and postdoctoral fellow Mike Duffy’s work to develop a vaccine for the *P. tenuis* disease was featured in the winter 2003 edition of *Alpacas Magazine*, the official journal of the Alpaca Owners and Breeders Association, Inc.

Dr. Appleton has served as a member of the International Commission on Trichinellosis since 2000.
"We aim to identify proteins that the parasite *P. tenuis* uses to infect animals. If the alpaca's immune response can be made to interfere with those proteins, then we may be able to make a vaccine that would protect the animal against disease. The challenge is identifying the best proteins to target in the vaccine."

—Judy Appleton, from interview featured in winter 2003 issue of *Alpacas Magazine*

Dr. Appleton spoke on "Glycan-Specific Antibodies Mediate Immunity to the Intraepithelial Nematode *Trichinella spiralis*" at a Keystone Symposium on Microbial-Epithelial-Lymphocyte Interactions in Mucosal Immunity held in Breckenridge, Colorado, in April.

She was an ad-hoc member of the Study Section for Training Grants and Fellowships for the National Institutes of Health (NIH)-Allergy and Infectious Diseases' Microbiology and Infectious Diseases Research Committee in 2002. Since 1999, Dr. Appleton has been an ad hoc reviewer for the NIH Study Section for Tropical Medicine and Parasitology.

**Research Awards Active in 2002:**

"Immunity to Parasitic Infection"
(Principal Investigator)
Sponsor: NIH-NIAID

"Molecular and Cellular Transport in Mucus"
(Collaborator; Principal Investigator, Mark Saltzman, Chemical Engineering)
Sponsor: NIH-NIGMS

"Vaccination to Prevent Disease Caused by *Parelaphostrongylus tenuis*"
(Principal Investigator)
Sponsor: Morris Animal Foundation

"Influence of an Underlying Immune Environment on the Subsequent IgG Isotype Response to a Foreign Antigen" (Co-Investigator)
Sponsor: Harry M. Zweig Memorial Fund for Equine Research

**Daniel Beiting (Graduate Research Assistant, Appleton Laboratory)**

"Immunology of Parasitic Diseases"
(training grant)
Sponsor/Division: NIH-NIAID

**Michael Duffy (Postdoctoral Fellow, Appleton Laboratory)**

"Mechanisms of Acquired Immunity to Parasitic Nematodes"
Sponsor/Division: Natural Sciences and Engineering Research Council of Canada

1NIH: National Institutes of Health
2NIAID: National Institute of Allergy and Infectious Diseases
3NIGMS: National Institute of General Medical Sciences

Lucy Gagliardo, research technician
Dr. Nancy Burton-Wurster's research focuses on the study of cartilage disease—in particular, how it affects the development of osteoarthritis in dogs. Her work has close ties with that of Dr. George Lust (and Cornell veterinary colleague Dr. Rory Todhunter) and their studies of canine hip dysplasia. Their collaborative approach allows for linkage analysis, or the identification of genes that may contribute to the development of hip dysplasia and osteoarthritis.

Dr. Burton-Wurster’s work with canine osteoarthritis is advancing studies of the degenerative joint disease in the human population as well. Osteoarthritis, one of the oldest and most common types of arthritis, affects an estimated 21 million people in the United States alone. The onset of osteoarthritis varies; some dogs (like people) are genetically predisposed to develop the condition at an early age, while others can have a spontaneous occurrence that accompanies old age.

The disease is characterized by the breakdown of the joint’s cartilage, the pliant tissue that helps to minimize friction between joints. Over time, the process results in bones rubbing against each other, causing pain and loss of movement. Dr. Burton-Wurster’s research is examining the biochemical and mechanical changes that take place when this normally supple tissue is compromised. Recent work focuses on the contributions of chondrocyte death to the nature and progression of osteoarthritis.

Her research has led to the identification and subsequent study of a unique isoform of the protein fibronectin, which is specific to cartilage tissue. Dr. Burton-Wurster's observation of the considerably elevated levels of fibronectin in severely damaged osteoarthritic cartilage has shed new light on its role in the maintenance of healthy cartilage.

Likewise, the Baker Institute researcher has observed that the removal of chondrocytes—the cells that synthesize cartilage—from cartilage tissue causes levels of fibronectin to drop dramatically. Her search for a better understanding of these connections may one day yield a biomarker for the early detection of osteoarthritis.

To learn more about Dr. Burton-Wurster’s research, visit http://bakerinstitute.vet.cornell.edu/research/burton-wurster/r_gen_dev_b-wurster.htm

"The only way of discovering the limits of the possible is to venture a little way past them into the impossible.”

Arthur C. Clarke
“Our work with canine osteoarthritis has an important impact for human health as well. My research seeks to provide a better understanding of this devastating condition in both species and offer new diagnostic tools to assist in the long-term treatment and maintenance of this painful disease.”

—Nancy Burton-Wurster

Laboratory Highlights in 2002:

Dr. Burton-Wurster served as a reviewer for a number of academic journals, including Archives of Biochemistry and Biophysics, Arthritis and Rheumatism, Connective Tissue Research, Journal of Orthopaedic Research, Osteoarthritis and Cartilage and Scanning Microscopy International.

She was an ad hoc grants reviewer for the United States Department of Agriculture.

Research Awards Active in 2002:

"Impact Damage, Apoptosis, and Early Osteoarthritis" (Principal Investigator)
(George Lust, Co-Principal Investigator)
Sponsor: NIH1-NIAMS2

"The Cartilage-Specific (V+C) Fibronectin Isoform as an Osteoarthritis Biomarker"  
(Principal Investigator)
(George Lust, Co-Investigator, James MacLeod, Co-Principal Investigator)
Sponsor: Arthritis Foundation

"Cartilage-Specific Fibronectin Isoform"  
(Co-Principal Investigator)
(James MacLeod, Principal Investigator)
Sponsor: Arthritis Foundation

Master Research Agreement  
(Co-Principal Investigator)
(George Lust, Co-Principal Investigator)
Sponsor: Pfizer Central Research

"Cartilage-Specific Fibronectin Isoform"  
(Co-Investigator)
(James MacLeod, Principal Investigator)
Sponsor: NIH1-NIAMS2

1NIH: National Institutes of Health  
2NIAMS: National Institute of Arthritis and Musculoskeletal and Skin Diseases
The simple pleasure of a walk in the park is denied millions of pet owners each day whose dogs suffer from canine hip dysplasia (CHD) and the resulting—and quite painful—osteoarthritis.

A crippling joint disease that can affect dogs of all sizes across all breeds, CHD is seen predominantly in most large breed dogs, including the popular Labrador and golden retrievers. In its advanced stages, the disease often leads to osteoarthritis—a painful, degenerative condition with no known cure. Canine osteoarthritis is one of the most common sources of chronic pain treated by veterinarians.

A specialist in bone and joint diseases in animals, Dr. George Lust has made a career study of this devastating condition to provide pet owners and veterinarians with new information for early diagnosis and preventive treatment to ease the symptoms. The condition is characterized by the loss of the smooth cartilage that covers and protects the end of the bones in a movable (synovial) joint, so the use of radiographs—or x-rays—is a common diagnostic tool.

Though radiograph results are not always conclusive, researchers agree that early diagnosis—preferably made during the first year of a puppy’s life—is crucial to maximize intervention and treatment needed to ease symptoms.

The dorsolateral subluxation (DLS) test, developed in 1996, provides such early detection and is useful as a field screening test for both dysplastic and nondysplastic hips in young dogs. Unlike current tests that involve manipulation of a dog’s legs and hips while on his back, the DLS test measures hip abnormality in a manner that most closely matches the dog walking or running.

His most recent research contribution—a 14-year study completed in 2002 with dogs at the Nestlé Purina Pet Care Co. and co-authored by Dr. Lust—found that dogs who consumed 25 percent fewer calories than their littermates on the same balanced diet lived significantly longer and suffered fewer canine diseases.

Dr. Lust saw the thinner dogs incurring much less CHD and subsequent osteoarthritis, compared with dogs that were fed the portions indicated on the pet food packages. On average, the dogs on reduced rations also lived nearly two years longer.

The ambitious dog study was done at Nestlé Purina, and included as collaborators Dr. Lust along with scientists from the University of Illinois, Michigan State University, and the University of Pennsylvania. Results of the study were published in the Journal of the American Veterinary Medical Association in May 2002.

Dr. Lust followed the development of CHD in the 48 dogs in the study and found striking effects of diet on the progression of the disease, even in young animals.

"It was dramatic. In the control group of 24 dogs—the over-fed dogs—16 had CHD at two years of age, and eight were normal," Dr. Lust says. "Of the 24 dogs in the restricted diet group, only eight had CHD and 16 were normal."

To learn more about Dr. Lust’s research, visit http://bakerinstitute.vet.cornell.edu/research/lust/r_gen_dev_lust.htm.
"I am hopeful that one day we will identify the genes for this debilitating condition and be able to offer an improved quality of life for dogs suffering from this devastating disease."

—George Lust

Laboratory Highlights in 2002:

Dr. Lust delivered a guest lecture, “Diet Restriction and Osteoarthritis in Animals,” at the Nestlé Purina Pet Institute Symposium: Advancing Life through Diet Restriction held in St. Louis, Missouri, in September 2002. (To learn more about this news-making nutrition study, visit www.purina.com/institute/news.asp?article=441.)

Kristen M. Riley, a Cornell undergraduate who worked in Dr. Lust's laboratory, was awarded Senior Honors in Research in May for her thesis, “A Search for a RAPD Marker Linked to Canine Hip Dysplasia.” She is now a graduate student at Thomas Jefferson University in Philadelphia.

Research Awards Active in 2002:

“Molecular Genetic Markers for Canine Hip Dysplasia” (Principal Investigator)
Sponsor: Ralston Purina Company

“Course Genome-Wide Scan for Canine Hip Dysplasia and Osteoarthritis” (Co-Investigator)
Sponsor: Cornell Center for Advanced Technology

Virginia Scarpino, research technician
Unlocking and applying new understandings of reproductive disorders in dogs is the cornerstone of Dr. Vicki Meyers-Wallen's work in her laboratory for the Study of Inherited Canine Reproductive Diseases at the Baker Institute. Her particular area of research is the investigation of Sry-negative XX sex reversal, an autosomal-recessive inherited trait that causes testicular tissue to develop in dogs that are chromosomally female. Infertility is a common result of this disorder. To date, work in her laboratory has resulted in identification of this disorder in 15 dog breeds, and research is under way to identify the marker responsible for the genetic disorder.

An important aspect of Dr. Meyers-Wallen's research is the frontline genetic counseling she provides to dog owners and breeders seeking assistance with their dogs who have reproductive disorders, such as Sry-negative XX sex reversal. Her expertise is often sought by these individuals to help them make informed breeding decisions.

Research taking place in Dr. Meyers-Wallen's laboratory is providing valuable data for the canine genome project as well, an international effort to sequence the canine genome. Unlocking the genetic sequencing of the dog genome will provide researchers with valuable new information and the potential to develop DNA tests for inherited disorders in the dog, including those that affect reproduction.

Dr. Meyers-Wallen says such information might one day be used to test thousands of genes at a time in addition to producing DNA profiles on individual animals. She anticipates that clinical applications will emerge rapidly with the availability of new information from canine and comparative genome projects. The ability to select for specific or desirable traits for your beloved dog may sound tempting; however, Dr. Meyers-Wallen cautions that responsibility and a strong dose of ethics will need to accompany medical advances in the laboratory.

"There is not only a great potential to improve overall canine health through genetic selection, but also the potential to do harm if we fail to maintain genetic diversity," says Dr. Meyers-Wallen. "The veterinary profession must be in a position to correctly advise clients on the application of this information to individual dogs as well as to populations of dogs, and particularly purebred dogs."

To learn more about Dr. Meyers-Wallen's research, visit http://bakerinstitute.vet.cornell.edu/research/meyers-wallen/r_gen_dev_m_wallen.htm
“Tests for inherited diseases in dogs help the breeder to avoid the production of affected dogs and to eliminate the gene mutation from a breed without eliminating any particular line within a breed.”

—Vicki Meyers-Wallen

Laboratory Highlights in 2002:

Dr. Meyers-Wallen served as chief of service in the Small Animal Fertility and Infertility Clinic at the Cornell University Hospital for Animals, where she provided genetic counseling services to dog breeders.

She spoke to overflow crowds on the topics of “Breeding Management of the Bitch,” “Ovulation Timing in Bitches with Infertility Problems,” “Monitoring Pregnancy and Electing Caesarean Section Delivery,” and “Infertility in the Dog” at the 74th Western Veterinary Conference held in Las Vegas, Nevada, in February.

Dr. Meyers-Wallen presented a guest talk on ethics and genetic selection in purebred dogs at the Third European Congress of the European Veterinary Society for Small Animal Reproduction held in Liege, Belgium, in May.

Dr. Meyers-Wallen is a member of the American College of Theriogenologists (ACT) and was elected to serve on the committee to study cooperation between the ACT and the European Congress of Animal Reproduction.

Research Awards Active in 2002:

“Autosomal Mechanisms of Testis Induction”
(Principal Investigator)
Sponsor: NIH1-NICHD2

“Canine Model for Sry-negative XX Sex Reversal”
(Principal Investigator)
Sponsor: Marshfield Medical Research Foundation

Collaborative Research Agreement
(Principal Investigator)
Sponsor: The Institute for Genomic Research, Inc.

1NIH: National Institutes of Health
2NICHD: National Institute of Child Health and Human Development
Two decades after its appearance, Canine Parvovirus (CPV) strikes much less frequently—and mostly in puppies and adolescent dogs—largely due to the development of effective vaccines at the Baker Institute. However, the threat of infection from this and other pathogens is always present in our environment. Previously unknown pathogens may emerge (as we have seen in recent times) or known pathogens may develop a more virulent form and pose a new threat (as was the case with CPV, a mutant of a cat virus able to infect dogs).

Dr. Parrish is examining the mechanisms of parvo viral disease from a molecular basis, which allows the development of new methods for infectious disease control, including vaccine development. His research seeks to trace the origins of CPV as a dog virus and its evolution in nature. The laboratory uses molecular biological methods to understand the special properties of the new virus that enabled it to infect dogs. Methods include the use of X-ray crystallography to examine the structural details of the virus particle and cell biology to study differences in virus entry into cells that become infected and those that do not.

Other research in the laboratory is examining the causes of the natural shift in host range and subsequent evolution of CPV, which results from virus-specific binding to the canine transferrin receptor (the recognition molecule that induces the host cell to pick up and bind to the parvovirus). The basic and applied work of the laboratory has concentrated mostly on the study of viral diseases of dogs and cats. However, in investigating the host range shift questions they have also done a detailed analysis of parvoviruses of cats, raccoons, mink, and other carnivores, as well as studies to characterize the minute virus of canines, also known as CPV type-1.

It is likely that most animals, humans included, have a species specific parvovirus. The canine parvovirus (CPV type-2) first emerged among domesticated dogs in Europe during the mid-1970s. This initial appearance quickly developed into a worldwide epidemic of diseases that included myocarditis (an inflammation of the muscular layer of the heart wall) and gastroenteritis (an inflammation of the lining of the stomach and intestines). The virus infects both wild and domesticated canine species. Through his work, Dr. Parrish hopes to elucidate the mechanisms that allowed the virus to “jump” from the cat to the dog and better understand how this process may work in other virus models as well. This then would create a better understanding of how to best prevent infection or deal with outbreaks of mutated strains.

Dr. Parrish’s research is continuing the legacy of the Institute’s early work in infectious diseases, in particular, its renowned efforts in virology. Advanced research in infectious diseases and immunology is necessary to stay at the frontline in controlling these risks for both humans and companion animals.

To learn more about Dr. Parrish’s research, visit http://bakerinstitute.vet.cornell.edu/research/parrish/r idi_parrish.htm
There are not many viruses where we really understand, at a detailed level, how the virus particle enters the cell to infect it. The study of virus biology enables us to better understand and to design treatments for canine and feline parvovirus.

—Colin Parrish

Laboratory Highlights in 2002:

Dr. Parrish was promoted from associate professor to professor of virology.

He was a member of the program organizing committee and chair of the session on Viral Structure and Function at the International Parvovirus Meetings held in Bologna, Italy.

In 2002, Dr. Parrish spoke at the University of Iowa, College of Veterinary Medicine Federation of American Societies for Experimental Biology meeting on Virus Structure, Saxtons River, Vermont; the American Society for Virology meeting held in Lexington, Kentucky; the Keystone Meeting on Pathogen-Host Interactions in Snowmass, Colorado; and the Noble Foundation Virus Evolution Workshop held in Ardmore, Oklahoma.

Dr. Parrish organized a virology retreat for Cornell faculty in September.

Dr. Parrish has served as a regular panel member/reviewer for the National Institutes of Health (NIH) Study Section on Experimental Virology since 1999. Since 2001, he has also been a reviewer for the NIH intramural grant programs.

Research Awards Active in 2002:

“Mechanisms of Parvovirus Infection and Host Range” (Principal Investigator)
Sponsor: NIH1-NIAID2

“Parvovirus Structure, Capsid Assembly, and Receptors” (Principal Investigator)
Sponsor: NIH1-NIAID2

“Training in Molecular Virology and Pathogenesis” (Principal Investigator)
Sponsor: NIH1-NIAID2

1NIH: National Institutes of Health
2NIAID: National Institute of Allergy and Infectious Diseases

Dr. Parrish (r) reviews experiment with research technician Wendy Weichert and graduate research assistant Karsten Hueffer.
Lab technician retires after three decades of service

Research technician Line Adams retired in December 2002, completing more than three decades of service in the laboratories at the Baker Institute. During his tenure, Adams saw enormous growth at the Institute, watching it evolve from its original cluster of laboratories to the dedication of the new building in fall 2002.

Arriving in 1972, Adams spent his early years working in the laboratory of Dr. Gus Aguirre, where he assisted Dr. Aguirre’s work with inherited eye diseases in dogs, and with former Baker faculty member Dr. Ron Schultz and his studies of coonhound paralysis. For the past two decades, Adams has worked in the laboratory of Professor Robin Bell conducting experiments related to immunology and infectious disease.

Working at the Institute also enabled Adams to meet people from around the world, many of whom he has kept ties to during his travels abroad with his wife, Linda. In addition to having more time for travel now that he has retired, Adams, an avid outdoorsman, is able to pursue some of his favorite pastimes, including fishing. For now, he maintains his association with the Institute, spending several hours a week on-site completing experiments for Professor Bell.

Reflecting on his years of service, Adams says, “I arrived here and just stuck. The Baker Institute is a great place to work and has suited my lifestyle.”

In July 2003, James MacLeod, VMD, PhD, was appointed to the John S. and Elizabeth A. Knight Chair in Equine Musculoskeletal Science at the Maxwell H. Gluck Equine Research Center at the University of Kentucky. The research program of the Department of Veterinary Science focuses its activities on the horse, and is regarded as one of the premiere institutions in the country for equine research. In addition, Dr. MacLeod will hold a joint appointment in orthopedics at the University of Kentucky’s Medical School.

Dr. MacLeod joined the Baker Institute as assistant professor of molecular genetics in 1992 and was promoted to associate professor in 1999. During his decade of research conducted at the Laboratory of Cellular Growth and Differentiation at the Institute, Dr. MacLeod made important advances in the field of equine joint disease, especially in early changes in chondrocyte gene expression that can contribute to cartilage degeneration and the development of chronic osteoarthritis. Dr. Macleod’s progress in better understanding how osteoarthritis develops, combined with his advances in therapeutic strategies, has provided valuable information to the entire equine industry.

In a second project, conducted most recently in collaboration with Cornell veterinary colleague Dr. John Randolph, he made significant progress in the development and investigation of the clinical safety and efficacy of species-specific erythropoietin (EPO) in dogs and cats. Erythropoietin is a protein produced by the kidneys that stimulates production of red blood cells. Clinical trials for dogs and cats were completed in 2002, and results of these studies are being developed for publication.
Jharna Ray, PhD, accepted an appointment at Calcutta University. She joined the faculty as the Sikta Pradhan Professor of Neurosciences at the S. N. Pradhan Centre for Neurosciences in 2002. The move was also a return to Dr. Ray's homeland of India and her family who reside there. Dr. Ray is working on the molecular genetic basis of neurological disorders involving movement in human patients, such as Parkinson's disease, dystonia, and epilepsy. Additionally, Dr. Ray is continuing her studies on hemophilia in collaboration with Cornell senior research associate Dr. Marjory Brooks.

Dr. Jharna Ray joined the Baker Institute faculty in 1992 as assistant professor of molecular genetics, where she pursued genetic studies at the Donnelley Laboratory of Gene Regulation and Expression. During her tenure at the Baker Institute, Dr. Ray focused her efforts on eye diseases, including age-related macular degeneration, while also studying the genetic basis for several inherited disorders in companion animals, including mucopolysaccharidosis, oculo-skeletal dysplasia, hemophilias A and B, and Leber congenital amaurosis. Foremost among her scientific contributions is her work with Baker Institute faculty Drs. Gus Aguirre and Greg Acland in the development of the vector that helped restore sight to Lancelot, a Briard dog born with a blinding genetic mutation. It marked the first time that congenital blindness was reversed in an animal larger than a mouse.

Mary Beth Matychak arrived at the Institute in 1974, while the Institute's founder, Dr. James Baker, was still in leadership. Matychak's background in biology helped earn her a spot in Dr. Max Appel's laboratory assisting his studies of canine virology.

Matychak was witness to some of the Institute's early discoveries. She remembers the day in the late 1970s when Dr. Appel, now professor of virology, emeritus, made the historic breakthrough with canine parvovirus. The result followed years of analyzing canine fecal samples received from pet owners across the country. Dogs everywhere were dying from the international pandemic, and the race was on to determine the cause and develop a vaccine.

"Dr. Appel was studying one of the samples I had prepped and asked me to take a look," recalls Matychak. The Baker professor observed parvovirus using an electron microscope and determined it was the infectious agent.

The discovery led to the development of the parvovirus vaccine with Dr. Skip Carmichael, now John M. Olin Professor of Virology, Emeritus. The patent on the Institute's parvovirus vaccine remains the single largest source of royalty income in Cornell's history.

Some species of wildlife are not able to tolerate a modified live distemper, so the Baker Institute produced a killed vaccine for this special purpose. For more than 20 years, Matychak prepared the killed distemper vaccine for black-footed ferrets and pandas at the National Zoo in Washington, D.C., and other wildlife habitats.

Matychak continued in Institute director Doug Antczak's Equine Immunology Laboratory after Dr. Appel's retirement in 1997 and has been a research technician in Clinical Sciences at the Cornell Veterinary College since January 2003. She says her time at the Baker Institute was rewarding. "I feel very fortunate to have been a part of the Institute's incredible history of discovery."
Financial Highlights

Baker Institute Revenue Sources 2002

- Royalties (1%)
- Corporate (1%)
- Other Sources (3%)
- Foundations (7%)
- Private Donations (6%)
- College Support (13%)
- Endowment Income (17%)
- Competitive Research Grants (52%)

Baker Institute Operating Expenses 2002

- Administration (11%)
- Maintenance (6%)
- University Levy (8%)
- Research (75%)
Partners in Progress: Private Support at the Baker Institute in 2002

On the following pages, we salute our many friends and supporters—individuals, veterinarians, kennel clubs, and corporate friends—who share our vision of advancing the possibilities of veterinary medicine through research. This shared commitment to benefit our beloved companion animals will enable the medical breakthroughs of tomorrow.

These generous donations provide much of the financial support that has made the Baker Institute's practical research programs possible and successful since its founding in 1950.

Thank you.
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In addition to donors previously recognized in this report, the Baker Institute salutes the generosity of the following individuals, veterinarians, kennel clubs, foundations, and corporations who provided valuable support to our research efforts on behalf of companion animals worldwide in 2002.

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In 2002, the Baker Institute received its second-largest-ever bequest from an individual. The very generous gift, which provides valuable long-term resources for academic support, was received through the estate of Mrs. Eleanor Gillis—a long-time friend of the Baker Institute and devoted owner of her beloved German Shepherds.

Mrs. Gillis, who passed away in April 2002, and her husband, Gordon, who died in 1985, had been supporters of the Institute and its work on behalf of animal health for the past 25 years. In 1992, the Institute presented Mrs. Gillis with the North Award in recognition of her contributions to the improvement of canine health and concern for the well-being of all dogs.

The Gillises established a business to sell construction equipment in Rochester, New York, in 1943. With diligent application they grew their initial investment of $300 into a thriving enterprise. The couple maintained a strong sense of philanthropy throughout their lives, which they merged with their devotion to companion animals.

"Institutes like Baker, which provide the environment and tools of research, do not just happen. They are there because enough people want them, build them, and pay for them... It pleases me to think that mine will be a continuing contribution toward the work at Baker."

—Eleanor Gillis, from March 1988 correspondence

This fund’s earnings can be used to provide support for scholars pursuing their research studies at the Baker Institute. The Baker Institute acknowledges this couple’s remarkable legacy. This very special gift is a lasting tribute to the memory of Eleanor and Gordon Gillis and their committed love of animals.
Mrs. Dolly Trauner, founder of the Canine Eye Registry Foundation (CERF), passed away in November 2002. Mrs. Trauner received the Baker Institute’s North Award in 1994, for her dedication to eradicating diseases of the eye in the dog and her lifelong support of the research at the Baker Institute.

Foremost among Mrs. Trauner’s lasting contributions to the welfare of all dogs was her founding, along with her late husband, Dr. Lawrence Trauner, of the Canine Eye Registry Foundation (CERF) to promote the recognition of hereditary ocular disorder in dogs and implement methods for the control and elimination of these diseases using well-established breeding practices. Since its founding in 1974, CERF has made a two-pronged attack on genetically linked blindness in dogs through both registration and research.

"Mrs. Trauner was a caring and compassionate individual who was troubled by the number of hereditary problems that occur in dogs," says Dr. Gus Aguirre, Caspari Professor of Ophthalmology at the Baker Institute and a recipient of Mrs. Trauner’s generous support of eye-related research in canines. "I can state unequivocally that Mrs. Trauner has been most influential in establishing the subspecialty of genetics within the field of veterinary ophthalmology."

Mrs. Trauner was a breeder and judge of poodles and Pomeranians and was approved to judge Shih Tzu and Yorkshire Terriers. She was a longstanding member of the Poodle Club of America, the Pomeranian Club of America (past president), the Poodle Club of Central California, Mission Trail Poodle Club, and the Pomeranian Club of Northern California. She served on the San Francisco Commission on Animal Control and Welfare. In addition, Mrs. Trauner was a respected writer for various dog publications.

In Memoriam

Mrs. Dolly Trauner

[Image of Mrs. Dolly Trauner]

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Kim Corallo (in memory of Sander)
Marie Cornine (in memory of Shango)
Sharon Corrigan (in memory of Jeremy and Joshua T. Laidley)
Carol Coulter (in memory of Molly and Nakita)
Karmen Couret (in memory of Sebastian)
Mr. and Mrs. Robert Cowie
Stephen Cozzi (in memory of Boy)
Nicholas Cretella (in memory of Fuzzy)
Duane and Trudy Crockett (in memory of Spicy)
Heather Cronin (in memory of Leo)

Linda Cronin (in memory of Bogie, in honor of Dr. Arthur Kronfeld)
Mr. and Mrs. Paul Cucciarra (in memory of Lady Jackson)
Clare Cunniff (in memory of Spunky, Buddy, and Max)
Laura Cunningham (in memory of Jenny)
Margaret Curtis
Mr. and Mrs. George Daab (in memory of Bud)
Elizabeth Dalton (in memory of Justice)
Patricia Daly (in memory of Quincy and Minnie)
Marc Danzer (in memory of Grover)
Joan Darcy (in memory of Loki)
James Dacoli (in memory of Rocky)
Helen Davis (in memory of Bonnie)
Irene Davison (in memory of Gita)
Anthony De Gregorio (in memory of Sid and Smokey)
Jo Ann De Libero (in memory of Niki)
Sylvia de Segur (in memory of Lute)
Paul Dean (in honor of Pittsburgh Veterinary Hospital)
Mr. and Mrs. Gordon DeLange (in memory of Winnie)
Mr. and Mrs. James Dearborn (in memory of Woody, Spider, Scooter, Sophie, Sweetie, and Duke)
Janice Dee (in memory of Maxi, Sneakers, Cooney, and Buzz Dee)
Mr. and Mrs. Michael DeMarco (in memory of Rocky)
Adam Derrick (in memory of Bacio)
Mr. and Mrs. Robert Desari (in memory of Riley)
Bruce Devlin
Lena Diab (in memory of Massar)
Lynne DiCostanzo (in memory of Nikki)
Theresa Donahue (in memory of Dakota)
Mr. and Mrs. Ted Dormeyer (in memory of Shadow)
Thalia Dorwick (in memory of Orlando)
Nancy-Carroll Draper
Joseph Driskill (in memory of Toby)
Mr. and Mrs. Lee DuBois (in memory of Benji and Jeff)
Jean Ducolde (in honor of Dr. L. William Goodman)
Patty Duni (in memory of Sandy and Snickers)
Robert Dusche (in memory of Striker)
Ann Dwyer (in memory of Lady, Abbey Road, Muggs, and Rigil)
Mr. and Mrs. Wayne Dyer (in memory of Peter and Patricia Hollister)
Rose Eagen (in memory of Rocky)
L. Majis Earl and Edward Sparkowski (in memory of Ripley)
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Mr. and Mrs. James Elvidge (in memory of Syl)
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Joseph Emsley (in memory of Bagat)
Mr. and Mrs. Brian Enser (in memory of Jazz, Bear, and Muffy)
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Mr. and Mrs. Edward Esselman (in memory of Murphy and Dexter)
Karen Exchberger (in memory of Chely)

Lisa Feldman (in memory of Bo and Hannah)
Mr. and Mrs. Craig Fellers (in memory of Méliss)
Pam Ferrigno (in honor of Dr. Richard Eschrich)
Mr. and Mrs. David Ferris (in memory of Lucky)
Deborah Ferris (in memory of Conan)
Janet Fiebert (in memory of Lobo and Tasha)
Mr. and Mrs. Robert S. Fields
Ira Fields (in memory of Schmicky, Gimpy, Ice, and Amie)
Mr. and Mrs. William Fitts (in memory of Murphy)
James Fogarty (in memory of Taz and Hobie)
James Foley (in memory of Taj and Hobie)
Mr. and Mrs. Alvin Foster (in memory of Bo and Princess)
James Foley (in memory of Taz and Hobie)
Mr. and Mrs. Alvin Foster (in memory of Zoe)
Linda Francke (in memory of Dill)

New Director of Public Affairs

Amy Gush joined the Institute’s leadership team in March 2003 as director of public affairs, replacing former director Bonnie Baker.

Ms. Gush, who brings a broad complement of development, alumni affairs, and marketing skills to the position, says she is looking forward to implementing new fund-raising initiatives and outreach to the Institute’s many friends and supporters.

Ms. Gush, hired as a result of a national search, previously worked at Oregon State University in Corvallis, Oregon, where she was the primary fund-raiser and marketing/communications strategist for the Colleges of Pharmacy, Health and Human Performance, and Education for the past ten years.

“We are very pleased to have Amy on our team,” says Baker Institute director Doug Antczak. “She has a keen understanding of issues surrounding public health and medical research that are addressed by the science of veterinary medicine. This is a critical time of growth for the Institute, and we are confident that Amy’s marvelous fund-raising skills will help bolster our base of private support.”

Ms. Gush, a proud owner of an assortment of companion animals, has a personal interest in the Baker Institute and its mission to advance animal health. “This is the position I would create if I could fashion my ‘dream job.’ I am certain that the work that is taking place at the Baker Institute today will have enormous positive effects on the quality of life for future generations.”

To learn more about how your gift can make a difference for the Baker Institute, contact Ms. Amy Gush at (607) 256-5661 or via e-mail at adg25@cornell.edu.

Baker Institute public affairs director Amy Gush with her dogs Liberty and Sheila.
The Baker Institute Animal Health Fund
Honoring the partnership between animals and humans

In 2002, we had a repeat success with our second annual fund drive in support of the Baker Institute Animal Health Fund.

Funds raised through this important annual campaign help ensure that institute scientists are able to continue their research to advance the health of the animals who so faithfully serve mankind. Donations to the Baker Institute Animal Health Fund also provide seed money for promising new areas of research.

The Baker Institute extends a special thanks to our many friends who help support this vital fund-raising effort.

Elmer Fredd and Marion Bingert (in memory of Sarah Anne)
Thomas Froehlich (in memory of Shasta)
Mr. and Mrs. Ronald Fuydal (in memory of Toby)
Marion Gaigal (in memory of Raffles and all their pets)
John Gallagher (in memory of Bull)
Kenneth Gantr (in memory of Tery, Casey, Montana, Toby, Molly, and Zia Zsa)
Jennifer Gatien (in memory of Chadi)
Mr. and Mrs. Jerome Gerl (in honor of Dr. G. Clayton Dudley and Dr. Roland B. Fowler)
Carol Gillaspie (in memory of George "Buck" Gillaspie and Tippy)
Brenda Giovanneillo (in memory of Hyway)
Mr. and Mrs. Gilford Glassoe (in memory of Will)
Brian Glaser (in memory of Jesse)
Ruth Goepfert (in memory of Fritz)
Joan Gold (in memory of Edison)
Linda Golden (in memory of Mickey)
Richard Gordon (in memory of Gref)
Robert Gordon (in memory of Dr. Bernard W. Rosen)
Spencer Gordon (in memory of Charcoal)
Bonnie Gorman (in memory of Ivan and Jazz)
Judith Gorta (in memory of Luke and Ralph)
John Gostline (in memory of Teddy Bear)
Marlene Gottlieb (in memory of Heidi)
Maureen Gould (in memory of Sadie)
Daniel Gabel (in memory of Sable and Cheyenne)
Mr. and Mrs. Ben Graham (in memory of Corey, Baby and Sandy Baby)
Dr. and Mrs. Richard Grambow (in memory of Grambow Pets, Betsy and Flame)
Mr. and Mrs. Timothy Grattan (in memory of Becky)
Green Heron Farm (in memory of Sophie)
Margaret Green (in memory of Chief)
Mr. and Mrs. Ross Greenburg (in memory of Casey)
Joan Griffin (in memory of Humphrey and Sydney)
Mr. and Mrs. Marc Grodinsky (in memory of Emily)
Florence Grossman (in memory of Dr. Henry Grossman)
Mr. and Mrs. Frederick Haas (in memory of Liz Maucci)
Mary Haley (in memory of Prince)
Mr. and Mrs. James Hall (in memory of Sydney)
Kay Hansen (in memory of Gypsy)
Patricia Harding (in memory of Gypsy)
David Harris (in memory of Katherine Percy McAllister)

Patricia Harrison (in memory of Aura and Ming Ming)
Maureen Harrison Faulds (in memory of Pebbles)
Helen Hart
Nancy Hathaway (in memory of Curly and Kelsey)
William Hay
Hayden Family (in memory of Dusty)
Stephen Heard (in memory of Zeke and Bung)
Fred Held (in memory of Britty)
Helen Hendershott (in memory of Charles, Pepper, and Niameg)
Alice Henry (in memory of Anna M. Gionfrido and Marion Wedge)
Vicki Herrmann (in memory of Buckminster, in honor of Blacksburg)
Elizabeth Hess
Mike, Anita and Amy Hesser (in memory of Reno, Shelbi, and Shiloh)

Pam Hideriotis (in memory of Cinnamon and Spice)
Lawrence Higbee (in memory of Teddy)
Katherine Hildreth (in memory of Dylan)
Lois Hilgeman
Mr. and Mrs. George Hill (in memory of Edson)
Klaus Hiruschal (in memory of Champ and Mickey)
Donald Hitt and Joan Kaiser (in memory of Dr. Peter Poggi)
Janet Hoch (in honor of Dr. Theodore Hoch)
Bernice Hodgin (in memory of Jeff)
G. A. Holahan
Mr. and Mrs. David Holowka (in memory of Samwise)
Margaret Holzberger (in honor of Dr. James Ansley and his staff)
Karen Horan (in honor of Michael Horan)
Mr. and Mrs. Winchester Hothkiss (in memory of Katherine McAllister)
Dr. and Mrs. James House (in memory of Rocky)
Hudson Valley Boundaries (in memory of Chloe, Bagle, Whisper, and Buster)
Maria Von M. Huggins (in memory of Mia)
Mr. and Mrs. Karl Hupper (in memory of Angel, Token, Nikki, and P-Nutsy)
Sabina Hutt (in memory of Tallulah, in honor of Dr. Mary Keating)
Internal Medicine Support Services (in memory of Pepper)
Joan Jackson (in memory of Dr. Stanley W. Jackson, Mikhail, Timothy, Paddy McGinty, Macpherson, and Casey)

Robert Jackson (in memory of Patrice and Mindy)
Teresa Jackson (in memory of Kyla)
Mr. and Mrs. Skip James (in memory of Mocha)
Anna Jentsch (in memory of Ming and Tazz)
Mr. and Mrs. John Jesser (in memory of Skidder)
Terry Johnaeszra Jr. (in memory of Jazz)
Albert Johnson (in memory of Tippie)
Grechen Johnson (in memory of Dr. Brenda Lassuacci)
Mr. and Mrs. Gilbert Johnson (in memory of Trotter)
Mr. and Mrs. Richard Jones (in memory of Casey and Indiana)
Mr. and Mrs. John Jones (in memory of Abina)
Beth Jupp (in memory of Grady)
Mr. and Mrs. Charles Kaman (in memory of Nick Mickelson)
Mr. and Mrs. Jack Kane (in memory of Dally and Daisy)

“"No one appreciates the very special genius of your conversation as the dog does.”

—Christopher Morley

Mr. and Mrs. Walter Kann (in memory of Victoria)
Joyce Kaplan (in memory of Tedi)
Brian Kaviar (in memory of Bruce Lee)
Carla Kazanjian and Don Giroux (in memory of Scampy, Rembrand, Kayla, and Bella)
Scott Kearney (in memory of Biff)
Mr. and Mrs. Kelly Keech (in memory of Cloo and Bosco)
Brian Kelcheer (in memory of joy)
Mr. and Mrs. Christopher Keller (in memory of Paddles)
Glenn Keller (in memory of Dinsdale)
Mark Kelly (in memory of Murray, Woody, and Erskrutch)
Kennel Club of Niagara Falls
Nancy Kent King (in memory of Katherine McAllister)
Susan Kerner-Hoehg (in memory of Bucky)
Mr. and Mrs. Richard Kibshheimer (in memory of Samwise)
Louise King (in memory of Bosco, Henry, and Maxwell)
Mr. and Mrs. Gerald King (in memory of Adam, Alex, and Sasha)
Delores King (in memory of Autumn, Olive, and Robert)
Mr. and Mrs. Edward Kingma (in memory of Cory and David Van Buskirk)
Barbara Kingsborough (in memory of Dillon)
Marilyn Kipers (in memory of Tootsie)
Linda Kleet (in memory of Muffin and Larry)
Darlene L. Klein (in memory of Elvis, in honor of Betsey Lynch, Napier, and Sugar)
Dr. and Mrs. Arthur Knochenhauer (in memory of Bertha Ferraro)
Margaret Kostik (in memory of Kazibek)
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<th>Name</th>
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<td>Delores Kralicek</td>
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<td>Allison Kubik</td>
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<td>Labrador Retriever Club of the Pioneervale (in Memory of June Cook and Dorothy Burnowski)</td>
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<td>Dean Lage</td>
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<td>Mr. and Mrs. Thomas Laroncausex</td>
<td>(In Memory of Jake, Casey, Chelsea, Mott, and Bo)</td>
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<td>Alexandra Langner</td>
<td>(In Memory of Quincy, Hannah, and Nicky)</td>
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<td>Sharon LaPier</td>
<td>(In Memory of Oscar)</td>
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<td>Kandi Latoowicz</td>
<td>(In Memory of Humming)</td>
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<td>Mr. and Mrs. James Lathrop</td>
<td>(In Memory of Katie, Lily, Rainbow, Minnie, Quinn, and Our Family Cat)</td>
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<td>Jean Levick</td>
<td>(In Honor of Dr. Marc Wallach)</td>
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<td>Paula Lindner</td>
<td>(In Memory of Randy and Jake)</td>
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<td>Mr. and Mrs. Robert Liperer</td>
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<td>Sandra Lipter</td>
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<td>A. Dwight Lopes</td>
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<td>Marjorie MacAllister</td>
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<td>Nancy Maruyama</td>
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<td>Mastiff Club of America</td>
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<td>Douglas McClure</td>
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<td>Mr. and Mrs. John McCoy</td>
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<td>Mr. and Mrs. David McCready</td>
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<td>Patricia McDermott</td>
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<td>Carol McKenzie</td>
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<td>Larry McMullin</td>
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<td>Dr. and Mrs. Vijayan Menon</td>
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<td>Sheryl Mercado</td>
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<td>Douglas Miller</td>
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<td>Mr. and Mrs. Matthew Miner</td>
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<td>Deborah S. Mintz</td>
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<td>Wendy Richter</td>
<td>(In Memory of Hershoy)</td>
</tr>
<tr>
<td>Allison Riley</td>
<td>(In Memory of Ezra)</td>
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<tr>
<td>Victoria Rintinger</td>
<td>(In Memory of Webster, Worf, and Duke)</td>
</tr>
<tr>
<td>Shelagh Rivers</td>
<td>(In Memory of Ralph)</td>
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<tr>
<td>Mr. and Mrs. Frank Rizzi</td>
<td>(In Memory of Nike)</td>
</tr>
<tr>
<td>Kent Roberts</td>
<td>(In Memory of Max and Lady)</td>
</tr>
<tr>
<td>Mr. and Mrs. David Rozick</td>
<td>(In Memory of Max and Lady)</td>
</tr>
</tbody>
</table>

“If your dog doesn’t like someone, you probably shouldn’t either.”

—Unknown
Like the body that is made up of different limbs and organs, all mortal creatures exist depending on one another.

—Hindu Proverb

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"No man can be condemned for owning a dog. As long as he has a dog, he has a friend; and the poorer he gets, the better friend he has."

—Will Rogers

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Una Gamba  (in honor of Wa-Wa Store Employees)
Marie Gamma  (in memory of Kassie and Morio)
Veronica Gant  (in memory of Candi)
Frances Gantet  (in memory of Beau)
Maria Garcia  (in memory of Lulu)
Deirdre Gardiner  (in honor of Dr. Larry Kahn)
Mr. and Mrs. Joseph Gargano  (in memory of Ginger)
Mr. and Mrs. Thomas Garrett  (in memory of Mitzie)
Janice Garvey  (in memory of Jakey)
Elizabeth Gaughan  (in memory of Buzz, Hobbs, and Peanuts)
Aimee Gauthier-Carpenter  (in memory of Maddie)
Mr. and Mrs. John Gawronski  (in memory of Oreo and Teisa)
Mr. and Mrs. Richard Giaccone  (in memory of Snowbull)
John Giagiointo  (in memory of Maggie)
Jennifer Giarratana  (in memory of Lula)
Thomas Gibbons and Linda Stipl  (in memory of Buffy)
Mr. and Mrs. Don Gibbons  (in memory of Maggie)
Gregory and Joan Gibson  (in memory of Buddy)
Natalie Gifford  (in memory of T. F.)
Bessie Giges  (in memory of Mo)
Mr. and Mrs. Mark Gigliotti  (in memory of Dande)
Mr. and Mrs. William Gillikin  (in memory of Avalon)
Mr. and Mrs. Martin Gilmarth  (in memory of Morgan and Max)
Mr. and Mrs. Patrick Gilmarth  (in memory of Lena and Ivory)
Raphaela Giugliano  (in memory of Joseph Sicignano, in honor of Graybar and Buffy)
Mr. and Mrs. Yakov Glaz
Richard Gredel  (in memory of Jingles)
Mr. and Mrs. James Gregory  (in memory of Luna)

Mr. and Mrs. Walter Grabow  (in memory of Scampers)
Louis Grant  (in memory of Bu)
Joan Grassi  (in memory of Dallas)
Elizabeth Gray  (in memory of Dina)
Victoria Graziosi  (in memory of Buckley)
Mr. and Mrs. Dino Greeco  (in memory of Tony)
Myles Greenberg, DVM
Harriet Greenberg  (in memory of Luna)
Richard Greene  (in memory of Max)
Stephen Greensfield
Glen Greenly  (in memory of Jingles)
Mr. and Mrs. James Gregory  (in memory of Luna)

Jane Glazier  (in memory of Lula)
Mr. and Mrs. Lincoln Glaucevich  (in honor of Yellow Springs Veterinary Clinic)
Diane Glynn  (in memory of Katherine McAllister)
Mr. and Mrs. Jeffery Goldberg  (in memory of Rhett Beagle)
Mr. and Mrs. Michael Goldberg  (in memory of Sabrina)
Mr. and Mrs. Martin Golden  (in memory of Missy and Bunny)
Mr. and Mrs. Jeffery Goldman  (in memory of Snow)
Mr. and Mrs. Eugene Goldwasser  (in memory of Harpo)
Mr. and Mrs. Victor Gomez  (in memory of Alabama)
Edda Gomez-Panzani  (in memory of Segre)
Celia Goodard  (in memory of Pepita)
Victor Gordon  (in memory of Shadow)
Mr. and Mrs. Mark Gordon  (in memory of Trista)
Margaret Gormley  (in memory of Stevie Ray)
Patricia Gould  (in memory of Brandy and Molly)
Theresa Grady  (in memory of Dutchess)
Kathryn Grahn

William Greiss  (in memory of Maddie)
Rita Gresko  (in memory of Maggie)
Mr. and Mrs. Philip Griffith
Mr. and Mrs. Philip Grippie  (in memory of Tiger)
Linda Louise Gross  (in memory of Matte)
Mae Grunk
 (in memory of Dian, Pehbles, Harpo, and Chico)
Mr. and Mrs. Vito Gruppuso  (in memory of Chipper)
Mr. and Mrs. Gunther Grutzkahn
Tamara Guberman
Patricia Gunzel  (in memory of Missy)
Deborah Garretti  (in memory of Betty)
Mr. and Mrs. Don Guthiel  (in memory of Ira)
Eugene Haber  (in memory of Herb)
Joan Haberland  (in memory of Robin)
Charles Hablison  (in memory of Whisper)
Hilda Haffey  (in memory of Linda, Jessie, and Ollie)
Dr. and Mrs. George Hahn  (in memory of Cj and Shorty)
Joan Haines and Linda Gerber
Mary Margaret Hall  (in memory of Primo)

Mr. and Mrs. Keith Haynie  (in memory of Joshua, Indy, Smudge, Picallo, and Holly)
Julia Head  and Eleanor Lorson  (in memory of Lobo)
Lois Head  (in memory of Oke)
Cindy Hearing  (in memory of Dro)
Mr. and Mrs. George Hebner  (in memory of Molly)
Mr. and Mrs. Paul Hedlund  (in memory of Fritz)
Mr. and Mrs. Joe Hefflin  (in memory of Bear)
Mr. and Mrs. Alan Heigel  (in memory of Clos)
Lucille Helfat  (in memory of Lucy)
Mr. and Mrs. John Heller  (in memory of Abigaill)
Mr. and Mrs. Louis Hendricks  (in memory of L.A.)
Roxanne Hensennuth  (in memory of Coby)
Mr. and Mrs. William Hennessey  (in memory of Jake)
Elizabeth Henry  (in memory of Inuk)
David Henshaw  (in memory of Alex)
Mr. and Mrs. William Hensley  (in memory of Mowgli)
Janet Herbert  (in memory of Schuyler)
Josephine Herley  (in memory of Alex)

Mr. and Mrs. Robert Hall  (in memory of June Cook and Razz Razz)
Mr. and Mrs. Donald Hallisey  (in memory of Buddy)
Marion Hambllett  (in memory of Pearl)
Mr. and Mrs. L. Gordon Hamersley  (in memory of Mrs. Robert Timpon)
Helen Hammond  (in memory of Timmy, Sadie, and Buddy John)
Stephen Hammond  (in memory of Bogie)
Barbara Hanschu
Charlotte Handsman  (in memory of Coco)
Mr. and Mrs. Anthony J. Hannett  (in memory of Red and Shadow)
Happy Tails Pet Care: Anne Udell
Julie Harder  (in memory of Henry)
Jo Ellen Hardesty  (in memory of Mikey)
Cecil Harper  (in memory of Priswa)
Mr. and Mrs. Dave Hart  (in memory of Fruzzy)
Mr. and Mrs. John Harris  (in memory of Katherine McAllister)
Mr. and Mrs. Charles Hartly  (in memory of Maggie and CJ)
Jaqulyn Harvey
Dorothy Hauk  (in memory of Beau)
Susan Hausser  (in memory of Chloe)
Claudia Hawkins  (in memory of Boo)
Donna Haydens  (in memory of Kris)
Donna Haydon  (in memory of Karl Butler)
Mr. and Mrs. Tom Hayes  (in memory of Athena and Sadie)
Mr. and Mrs. William Hayes  (in memory of Bear)

"If you are a dog and your owner suggests that you wear a sweater, suggest that he wear a tail."

—Fran Lebowitz
Mr. and Mrs. Malcolm Hermele  
(in memory of Michael)

Mr. and Mrs. William Hess  
(in memory of Goo, Fritz, and Taffy)

Mr. and Mrs. Allen Heyman  
(in memory of Jake)

Janet Heyneman  
(in memory of Jackie)

Nancy Hickey  
(in memory of Buster Brown)

Janet Higgins  
(in memory of TC)

Dorothy Higgins  
(in memory of all her pets)

Marjorie Hill  
(in memory of Sam and Blizzard)

Leslie Hilton  
(in memory of Jexen)

Lynn Hiltz  
(in memory of Shultz)

Debra Hind-Gale  
(in memory of Midnight)

Hine Family  
(in memory of Ginger)

Mr. and Mrs. George Hiza  
(in memory of Silly)

Mr. and Mrs. Joel Hoffman  
(in memory of Calhoun)

Lydia Hoffman  
(in memory of Izy Izy Popperete)

Paul Hoffman  
(in memory of Madeleine)

Mr. and Mrs. Jeffrey Hogan  
(in memory of Angelo and Chamois)

Mr. and Mrs. James Holleran  
(in memory of Maggie)

Jeffrey Hollister

Susan Holmes  
(in memory of Kelly)

Catherine Holmes  
(in memory of Dobby)

Dr. and Mrs. Rick Holton  
(in memory of Thomas M. Black)

Virginia Homan  
(in memory of Machee Ling)

Mr. and Mrs. Robert Hommel  
(in memory of Kodiak Bear and Fluffy)

Penny Hooper  
(in memory of Jasper)

Mr. and Mrs. John Horan  
(in memory of Norma Kozlak)

Joycelyn Horner  
(in memory of June C. Cook)

Mr. and Mrs. John Hornyk  
(in memory of Brinks)

Mr. and Mrs. Martin Horowitz  
(in memory of Bow)

Mr. and Mrs. Thomas Houghton  
(in memory of Rebel)

Patricia Houhllan  
(in memory of Emily)

Norine Howard  
(in memory of Heidi)

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(in memory of Tom Mercier)

Carol Howell  
(in memory of Cindy)

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(in memory of Taffy, Cheri, and Drago)

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(in honor of Dr. Jon Litman)

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Kasey Hussain  
(in memory of Backus)

Catherine Huss-Johnson  
(in memory of Roxanne and Rosie)

Nimr Ithaim  
(in memory of Charlie)

Ulla Ikle  
(in memory of Sandy)

Independence Realty of America  
(in memory of Mrs. Donald McAllister)

Betsy Isbell  
(in memory of Erica)

Nancy Isbell  
(in memory of Major)

J. Raffinati Inc.  
(in memory of Krumpet)

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(in memory of Kesha and Howie)

Mr. and Mrs. James Jaffe

Kate Jamroz  
(in memory of Brady)

Janet Janke  
(in memory of Rusty)

Mr. and Mrs. Richard Janke  
(in memory of Princes)

Debra Jardot  
(in memory of Katherine McAllister)

Donald Jayson  
(in memory of Lacey)

Mr. and Mrs. Joel Jenkins  
(in memory of Shelby)

Andrew Joachim  
(in memory of Nansok)

Yvonne Johnson  
(in memory of Buddy, Molly, and Licorice)

Mr. and Mrs. Robert Johnson  
(in memory of Bees)

Bonita Johnson  
(in memory of Caleigh)

Katrenie Johnson  
(in memory of Sky)

Latane Johnson  
(in memory of Birch)

James Johnson  
(in memory of Jake)

Marguerite Johnson  
(in memory of Mindy)

Christine Johnston  
(in memory of Brandi)

Anne Jones  
(in memory of Saffy)

Mr. and Mrs. Michael Jones  
(in memory of Annie and Smokey)

Jean Jones  
(in memory of Mickey)

Jeanette Jones  
(in memory of Bishu)

Judith Jones  
(in memory of Sagga)

Mr. and Mrs. John Calderwood  
(in memory of Reebok)

Mr. and Mrs. Harold Jungenberg  
(in memory of Katie)

Margaret Jurnark  
(in memory of Daisy and Pippi)

Randall Kach  
(in memory of Cinder and Lady)

Mr. and Mrs. William Kahan

Eileen Kalter  
(in memory of Max)

Joyce Kamaratz  
(in memory of Rissie)

Mr. and Mrs. Robert Kanar  
(in memory of Bertha)

Arleen Kane  
(in memory of Rocky)

David Kaniak  
(in memory of all our loving friends)

Beatrice Kantrowitz  
(in memory of Noelle)

Norman Kantrowitz  
(in memory of Uno)

Mr. and Mrs. Daniel Karp  
(in memory of Leibchen and Benny)

Mr. and Mrs. Gerald Kass  
(in memory of Crudd)

Mr. and Mrs. Peter Katz  
(in memory of Karl Butler)

Carol Kavanagh and Brian Paul  
(in memory of Xena)

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(in memory of Shane)

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(in memory of Rob)

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(in honor of Bruto)

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(in memory of Caroline)

Mr. and Mrs. John Keryk  
(in memory of Ponch)

Mr. and Mrs. Lawrence Kieft  
(in memory of Brandi)

Kerryth Kilduir  
(in memory of Shadow)

Mr. and Mrs. Joseph Kile  
(in memory of Lindy)

Mr. and Mrs. Lawrence Klein  
(in memory of Alpsie)

Mr. and Mrs. Arthur Klepper  
(in memory of Caddie)

Louise Klett  
(in memory of Lacey)

Mr. and Mrs. Robert Klug  
(in memory of Biscuit)

David Knuss  
(in memory of Tonka)

Theresa Knight  
(in memory of Goshi)

Mr. and Mrs. Hilary Ward Knox  
(in memory of Abby)

Erin Koch  
(in memory of Digger)

Steven Kofsky  
(in memory of Angel)

Shirley Koplovitz  
(in memory of Kelly)

Dr. and Mrs. Harold Kopp

Mr. and Mrs. Pavel Korachnin  
(in memory of Right)

Mr. and Mrs. Jeffrey Kornblut  
(in memory of Jose)

Martha Korosec  
(in memory of Sadie)

Mr. and Mrs. Robert Killeen  
(in memory of Max)

Emily Kliner  
(in memory of Onya)

Mr. and Mrs. William Kliner  
(in memory of Jeffrey)

Mr. and Mrs. William Kimball

Jane King  
(in memory of Fiony)

Mr. and Mrs. Lawrence King  
(in memory of Sheva)

Mr. and Mrs. Robert King  
(in memory of Kelly)

Eva Klaas  
(in memory of Mea)

Edith Klein  
(in memory of Travis)

Evelyn Kosinski  
(in memory of Travis and Vescari)

Carole Kost  
(in memory of Lady)

Nancy Koster  
(in memory of Barbara Sposo)

Donna Kourtes  
(in memory of Daphne)

Mr. and Mrs. John Kreamer  
(in memory of Ted)

Mr. and Mrs. David Kramer  
(in memory of Zeek)

Mr. and Mrs. Howard Kraner  
(in memory of Albert John Michaels)

Carolyn Kramar  
(in memory of KC)

Cari Kramer  
(in memory of Karma)

Going to the Dogs... the Westminster Dog Show, that is!

The Baker Institute was pleased to host friends and supporters at a skybox reception at the 127th Annual Westminster Kennel Club Dog Show held at Madison Square Garden in New York City on February 10-11, 2003. The annual event is an opportunity to showcase the Institute’s research programs on behalf of canine health to interested members of the breeder and kennel club communities.


Mr. and Mrs. Rick Krasse  
(in memory of Caccia)

Mr. and Mrs. Robert Kratz  
(in memory of Dexter)

Mr. and Mrs. Kenneth Krsninger  
(in memory of Izaa)

Mr. and Mrs. Richard Krsninger  
(in memory of Izaa)

Nancy Krostad  
(in memory of Perry and Aila)

Mr. and Mrs. Mark Kugelman  
(in honor of Desi)

William Kuhn  
(in memory of Sandy)

Stanley Kulesavage  
(in memory of Makai)

Mr. and Mrs. David Kulick  
(in memory of Gertie)

Mr. and Mrs. Joseph Lacerda  
(in memory of Ashley)

Mr. and Mrs. Jeffrey Lahullier  
(in memory of Keesha and Howie)

Mr. and Mrs. Joel Lahullier  
(in memory of Bees)

Mr. and Mrs. Pavee Korchagn  
(in memory of Flame)

Mr. and Mrs. Jeffrey Kornblut  
(in memory of Potato)

Mr. and Mrs. Lawrence Kline  
(in memory of Cuddie)

Mr. and Mrs. Robert Kline  
(in memory of Biscuit)

David Knuss  
(in memory of Tonka)

Theresa Knight  
(in memory of Goshi)

Mr. and Mrs. Hilary Ward Knox  
(in memory of Abby)

Erin Koch  
(in memory of Digger)

Steven Kofsky  
(in memory of Angel)

Shirley Koplovitz  
(in memory of Kelly)

Dr. and Mrs. Harold Kopp

Mr. and Mrs. Pavel Korachnin  
(in memory of Right)

Mr. and Mrs. Jeffrey Kornblut  
(in memory of Jose)

Martha Korosec  
(in memory of Sadie)
Mr. and Mrs. Raymond LaManque
(in memory of Diania)
Mr. and Mrs. P. Henry Lambert III
(in memory of Fonz and Ears)
Mr. and Mrs. Walter Lamoreaux
(in memory of Jake)
Myron Lammert
(in memory of Princess and Sienna)
Mr. and Mrs. Vincent Leone
Mr. and Mrs. Robert Lerner
(in honor of Dr. Michael Wolz)
Mr. and Mrs. Ralph Leslie
(in memory of Scarlet)
Mr. and Mrs. Marc Lesser
(in memory of Barney)
Karen Lessig (in memory of Rascal)

Elaine M. Lopiano (in memory of Tara)
Helen Lorenz (in memory of Kitzy)
Los Alamos Dog Obedience Club
Arthur Lothrien and Doreene Evans
(in memory of Patchy)
Debra Louis (in memory of Derby)
John Love and John Bradsher
(in memory of Vicki)
John C. Love (in memory of Bonnie)
Marianna Lowell (in memory of Brenna)
Lucky Pet
Mr. and Mrs. Terry Ludwig
Mr. and Mrs. Michael Lull
(in memory of Jezzy)
Hilde Lund (in memory of Daisy Bella)
Mr. and Mrs. Richard Lundstrom
(in memory of Quigley)
Mr. and Mrs. Irving Lustig
Mr. and Mrs. Richard Luzzi
(in memory of Patty)
Lyn Family (in memory of Molly)
Mr. and Mrs. Thomas Lynch
(in memory of Elsa and Stoy)
Mr. and Mrs. Joseph Lysiak
(in memory of Maggie)
Blanche Machado
(in memory of Buddy, in honor of Brockton Animal Hospital)
Mr. and Mrs. Stephen Maclean
(in memory of Cassie)
Mr. and Mrs. Macy (in memory of Norma Kezla)
Mathew Madappally (in memory of Trey)
Mr. and Mrs. Wallace Madon
(in memory of Kitzy)
Dorothea Maibaum (in memory of Abigail)
Carol Maiden (in memory of Spangle)
Maryanne Maier (in memory of Kitty)
Tracie Leigh Maier-Hamza
(in memory of Coda)
Helen Majewski (in memory of Emma)
Mr. and Mrs. Carl Malaney
(in memory of Prince)
Elaine Malinichuck (in memory of Pip)
Mr. and Mrs. Don Malone
(in memory of Tad)
Mr. and Mrs. Alan Mandell
(in honor of Dr. Steven Feldman)
 Lynn Matigene (in memory of Rusty)
Constantine Manos (in memory of Rocky)
Phyllis Mansi (in memory of Molly)
Mr. and Mrs. Raymond Manus
(in memory of Nuggets)
Rosalie Manzi-Platt (in memory of Roa)
Mr. and Mrs. Robert Mara
(in memory of Duke)
Cindy Marano (in memory of Buffy)
Mr. and Mrs. Peter Marchand
(in memory of Joes)
Rose Marino (in memory of Fabian)
Hugh Marius
(in memory of General Boucicault)
Janice Marklin (in memory of Buttercrotch)
Richard Marks
Neil Marrinan (in memory of Spade)
Mr. and Mrs. Paul Marsh
(in memory of Rascal and Blackie)
Gail Marshall (in memory of Eartha)
Mary Marshall (in memory of Oker)
Mr. and Mrs. Aldo Marsiglia
(in memory of Topaz)

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(in memory of Jake Marrindell)
Anitha Martinez
(in memory of Janal’s Ginger)
Lisa Martonaza and Mary McCarthy
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Ronald Maselka
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Thomas Mason (in memory of Venus)
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David Matteson (in memory of Max)
Christopher Matthews (in memory of Lula)
Barbara Matura
(in honor of Dr. Carol Carberry)
Mr. and Mrs. Michael Maurer
(in memory of Quigley)
Jill Mayer
(in memory of Dr. William Henry Adolph)
Mr. and Mrs. James Maynard
(in memory of Hillary and Ronnibal)
Mr. and Mrs. Mike Mazur
(in memory of Bella)
Nancy Mc Laughlin
(in memory of Milo’s I Love Lucy)
McAllister Family (in memory of Ni Hao)
Mr. and Mrs. Kevin McCabe
(in memory of Frickie)
Bonnie McCaibill
(in memory of Vickie Smith)
Mr. and Mrs. Mike McDermott
(in memory of Fraser and Elmo)
Arlene McDevitt
(in honor of Dr. Carmen Scherz)
Mr. and Mrs. James McDill
(in memory of Beau)
Janice McDonald
(in memory of Julia, Annie, and Big)
Mr. and Mrs. Thomas McDowell
(in memory of Duszy)
Mary Mcowan
(in memory of Deane McDow and Serge)
Mr. and Mrs. John McGee
(in memory of Dcroas)
Michele McGrory (in memory of Tova)
Mr. and Mrs. Garry McGuigan
(in memory of Daisy Lynn)
Janet McKim (in memory of Nausha)
Ursula McKinney (in memory of Daphne)
Katherine McClellan
(in memory of Barrum)
Teresa McMahan (in memory of Molly)
Susan McMenamin (in memory of Mrs)
Mr. and Mrs. Allan Mehtrens
(in memory of Starra)
Mr. and Mrs. Ernest Melander
(in memory of Kitzy)
Catherine Mellon (in memory of Heavenly)
Theresa Mercer (in memory of Gem)
Linda Merk and Marty Toper
(in memory of Dock)
Ruth Merrill (in memory of Louis Charles)
Mr. and Mrs. Gerald Messeri
(in memory of Kellee)

Albert Landa (in memory of Max)
Donna Landry (in memory of Brandy)
Mr. and Mrs. Norman Landry
(in memory of Peter, Patsy, and ‘the paws’)
Ivy Lane
Kathryn Lang (in memory of Shadow)
Mr. and Mrs. Thomas Langan
(in memory of Mickey)
Elizabeth Lange (in memory of Pickle)
Monal Lankford (in memory of Remi)
Domenico Lanzirotti (in memory of Shila)
Joan Lanzo (in memory of Boots)
Dr. and Mrs. Albert Lapetina
(in memory of Kaka)
Mr. and Mrs. George Latsky
(in memory of Dr. John Ward)
Mr. and Mrs. Frank Lauria
(in memory of Nikki)
Mr. and Mrs. Carl J. Lauter
(in memory of Felice and Blackie)
Patricia Lavinder (in memory of Princess)
Pamela Lavery
(in memory of Aji, Jeeves, and Taylor)
James Lavoie (in memory of Buffy)
Rita Law
Nelson Lawrence
Mr. and Mrs. Sylvan Lazart
(in memory of Jesse)
Kathy Leckinger (in memory of Brandy)
Linda Leibrach (in memory of Breeze)
Pepi Leids (in memory of Gunter)
Ellen Leifer (in memory of Chelsea)
Mr. and Mrs. Thomas Leonard
(in memory of McAffin)
Theresa Leone (in memory of Dustin)
Robert Leverette
(in memory of Benji and Lotus)
Sandra Levine (in memory of Penny)
Mr. and Mrs. Kenneth Levy
(in memory of Bonnie and Ferigo)
Julia Levy (in memory of MacTawish)
Amy Lew (in memory of Bob)
Maureen Lewinski (in memory of Scruffy)
Rita Lewis
(in memory of Sharron and Peppermint)
Lewis & White Excavation
(in memory of Shakespeare)
Jachin Libowitz
(in memory of Yankee, Robert and Sandra Pad-
dock)
Julie Lichtenman (in memory of Taz)
Amy Liebmann (in memory of Lula)
Mr. and Mrs. Larry Lindenbaum
(in memory of Snickers)
Jacqueline Linehan
(in memory of Trix and Zoe, in honor of Dr. Suzanne Bleseth)
Patricia Linenger
Mr. and Mrs. Joseph Linnemann
(in memory of Hannah)
Barbara C. Lippe (in memory of Polly)
Joan Lipson (in memory of Arno)
Mr. and Mrs. Francis Lisewski
(in memory of Fudge)
Mr. and Mrs. Michael Lisz
(in memory of Samantha)
Marriane Lovredo and Jeff Hass
(in memory of Gray Boy)
Mr. and Mrs. Ernest Long
Kathleen Long (in memory of Shadow)
Joseph Long (in memory of Duke)
Mr. and Mrs. Mark Longo & Matthew
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Betty Nestis (in memory of Blackie)
Mr. and Mrs. John Neville (in memory of Patchy)
Mr. and Mrs. Michael Newler (Rudy)

"If a dog jumps in your lap, it is because he is fond of you; but if a cat does the same thing, it is because your lap is warmer."

—Alfred North Whitehead

Susannah Newman (in memory of Murphy)
Mr. and Mrs. Martin Newsham (in memory of Tara)
Mr. and Mrs. John Nicholl (in memory of Whitney)
Mr. and Mrs. Timothy Nichols (in memory of Tasha)
Edward Nichols (in memory of Rosy)
Shirley Nickell (in memory of Tasha, Tyler, and LB)
Beth Niestat (in memory of Rosy)
Lissette Nieves (in memory of Mulligan)
Ray Niven (in memory of Midnite)
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Daniel Norman (in memory of Jula)
Mr. and Mrs. Michael Norman (in memory of Whitney)
Mr. and Mrs. Donald Northington (in memory of Lance)
Sarah Norris (in memory of T TOO)
Neil North (in memory of Tocc)
Ruth Northrup (in memory of Bear)
Mr. and Mrs. Mitchell Novick (in memory of Frosty and Tawny)
Mr. and Mrs. Jay Nussbaum (in memory of Cocoa Chanel)
Elaine O'Connell (in memory of Agnis)
Christopher Okeefe and Earl Hannibal (in memory of Dreamer)
Mr. and Mrs. Timothy Oliver (in memory of Alex)
Michael O'Loughlin (in memory of Shadrack)
Ruth Orange (in memory of Robert Paddock)
Mr. and Mrs. Brad Orben (in memory of Tucker and Maggie)
Sharon Orlando (in memory of Simmy, Token, and Nikki)
Denise Oronoud (in memory of Bear)
Connie Otey (in memory of Penelope Jones)
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Alice Osar (in memory of Jake, Michael, and Muriel Katz)
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Mr. and Mrs. Eric Ottoson (in memory of Heidi)
Mr. and Mrs. Bruce Ouderkirk (in memory of Lucky)
Mr. and Mrs. Thomas Owens (in memory of Nasha)
Rita Oyola (in memory of Kelly and Kitty Cat)
Mr. and Mrs. Robert Paar (in memory of Henry and Misty)
Mr. and Mrs. Rick Paine (in memory of Herb Harvey)
John Palache (in memory of Peter)
Guo Papoutsis (in memory of Rocky)
Mr. and Mrs. Donald Parker (in memory of Mr. Joseph Sweet, Blackie, Dottie, and Tippy)
M. Jean Parker (in memory of Daisy and Magnolia)
Lee Parker (in memory of Rosie)
Howard Parmes (in memory of Blackie)
Rip Parsells (in memory of Jugabey and Tigger)
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Patricia Partridge (in memory of Daisy)
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Mr. and Mrs. Ronald Stevenson (in honor of Wayne Fowles and the staff at Westfield Animal Clinic)
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Donna Stirpe (in memory of Penny)
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Mr. and Mrs. William Trask (in memory of Trump and Archie)
Sally Traube (in memory of Prudence)
Walter Traubel
Mr. and Mrs. Richard Trotta (in memory of Nagger)

A Gift of Love: The Baker Institute Memorial Gift Program

A special way to memorialize or honor a beloved pet or companion animal friend

"I never knew of the Baker Institute until I received a letter in the mail stating that my veterinarian made a donation to the Institute in memory of my dog, I was so touched," writes Kerry Donohue. "I just want to thank everyone there for their intensive research and hard work. It means the world to people like me, who have lost their unconditional love to a terrible disease."

Ms. Donohue’s heartfelt note is echoed in similar letters and e-mails that the Baker Institute receives annually in recognition of its Memorial Gift Program. The emotion expressed in this correspondence captures the Baker Institute’s commitment to animal health.

Memorial gifts, whether from an individual or a veterinary clinic, provide support to our highly successful research programs. Foremost, a gift to the Memorial Gift Program offers a fitting tribute to a beloved pet, while providing hope for future generations of animals. For a complete listing of our participating veterinarians and animal clinics, see pp. 55-57. To those of you who have made a memorial gift in the past year, thank you. Your thoughtful gift is a wonderful way to honor a loved one while helping to provide lasting knowledge on important issues in animal health.

Margery Trossell (in memory of Duff)
Jane Trumbull (in memory of Charlie Girl)
Frances Trupia (in memory of Sasha)
Alfred Trupia (in memory of Brenda)
Mr. and Mrs. Brian Tuskesi (in memory of Blue)
Johanna Taritto (in memory of Kylie)
Barbara Turner (in memory of Charlie and Miss Titty)
Mr. and Mrs. Winston Twombley (in memory of Venice (ingraa))
Mr. and Mrs. John Tyler (in memory of Sabby)
Mr. and Mrs. David Tyrel (in memory of Gidget)
Robert Ubertini (in memory of Randy)
Mr. and Mrs. Howard Udoff (in memory of Sammi)
Nancy Uffelman (in memory of Sammy)
Mr. and Mrs. John Uhl (in memory of Kike)
Mr. and Mrs. Jeffrey Ulman (in memory of Dusty)
John Underwood (in memory of Frazier)
Mr. and Mrs. Donald Unsworth (in memory of Molly)

Susan Urban (in memory of Jane C. Cook)
Patricia Urban (in memory of Rosie)
Evelyn Undersoff (in memory of Mary of Devlin)
Sandra van Heerden (in memory of Pippa and Khan)
LeeRoy Van Dyne (in memory of Sandy)
“He is your friend, your partner, your defender, your dog. You are his life, his love, his leader. He will be yours, faithful and true, to the last beat of his heart. You owe it to him to be worthy of such devotion.”

—Anonymous

Frank Vepley
(in memory of Baroo, in honor of Carter and Olivia)
Mr. and Mrs. Michael Verga
(in memory of Precious)
Mr. and Mrs. Bruce Vickers
(in memory of Maurice Pierre)
Jennifer Vitolo
Jose Vincente (in memory of Whisper)
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Jennifer Warrick (in memory of Rocky)
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(in memory of Laddie I and II)
Dorothy Waxman (in memory of Buddy)
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(in memory of Kai)
Sue White
(in memory of Meggy, Gretzel, Molly, Muppet, and Pooh)
Mr. and Mrs. Stephen White
(in memory of Daisy and Black Momma Cat)
Ellen White
(in memory of Katherine McAllister)
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Mr. and Mrs. Gary Zimmerman
(in memory of Teddy)
Patricia Zingale (in memory of Willie)
Mr. and Mrs. Dennis Zink
(in memory of Holmes)
Monica Zinn (in memory of Dion)
Karen Zitka
(in memory of Mindy, Adidas and Brandon)
Mr. and Mrs. Robert Zitter
(in memory of Max)
Baker Institute Memorial Gift Program: A Salute to Participating Veterinarians

For more than 25 years, veterinarians and animal clinics have provided core support for the Baker Institute and its research programs through their participation in the Memorial Gift Program.

These devoted practitioners, some of whom have had affiliation with the Baker Institute for several decades, represent a link to finding new treatments for diseases of companion animals. Their committed support of the discovery process enables the Baker Institute to continue its basic veterinary research programs, which develop new knowledge and tools in the fight against emerging infectious agents and debilitating conditions such as canine hip dysplasia and osteoarthritis. Support from the Memorial Gift Program also advances our work with new treatments such as gene therapy, genetic testing, and counseling for inherited diseases in dogs and horses.

We gratefully acknowledge the following veterinarians and animal care practices for partnering with the Baker Institute through their contributions to the Memorial Gift Program in 2002:

**Founders’ Circle**  
Contributions of $5,000 or more
- Animal Hospital of Pittsford: Paul Black, DVM

**Institute Patrons**  
Contributions of $1,000 to $4,999
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- Animal Kind Vet Hospital: Mark C. Gibson, DVM
- Bolton Veterinary Hospital: David S. Coley, DVM
- Clark Animal Care Center: Amy D. Charpentier, Sara Sanders, and Kathleen Wakefield, DVM
- Deer Park Animal Hospital: Richard P. Henry, DVM
- East Meadow Animal Hospital: William J. Thorsen, DVM
- Goodman Animal Hospital: William Goodman, DVM
- Goosepond Animal Hospital: Howard Rothenberg, DVM
- Irondequoit Animal Hospital
- Miller - Clark Animal Hospital: John E. Pinckney, DVM
- Mobile Veterinary Services: Steven J. Cohen, DVM
- North Shore Animal Hospital: Alan R. Ferber, DVM
- Oradell Animal Hospital: Gary W. Johnson, DVM
- Otterkill Animal Hospital: James C. Zgoda, DVM
- Rupert Veterinary Clinic: Joan R. Ceglowski and Eugene C. Ceglowski, DVM
- Rutland Veterinary Clinic
- Sakonnet Veterinary Hospital: Kenneth E. Rix and William E. Condon, DVM
- Salmon Brook Veterinary Hospital
- Stafford Veterinary Hospital: John A. Hauge, DVM
- The Moriches Hospital for Animals: Kevin G. Lynch, DVM
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- Veterinary Internal Medicine Clinic
- Veterinary Specialty Hospital: Keith P. Richter, DVM
- Viking Community Animal Hospital: Terry Owen, DVM

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Contributions of $500 to $999
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- Animal General: Steve C. Feldman, DVM
- Baldwin Harbor Animal Hospital: Leslie B. Dattner, DVM
- Batsia Animal Hospital: Raymond Pray, DVM
- Bond Animal Hospital: Douglas G. Aspros, DVM
- Bryan Animal Hospital: Mark Helfat, DVM
Burston Animal Hospital: Debra M. Eldredge and Robert C. Thompson, DVM

Campus Veterinary Clinic: Charles J. Berger, DVM

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Central Animal Hospital: Michael Woltz, DVM

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Estates Animal Hospital: Barry Eisenkraft, DVM

Delmar Veterinary Associates: Laura E. Tenney, DVM and Dr. and Mrs. G. Clayton Dudley

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Estates Animal Hospital: Barry Eisenkraft, DVM

Fairview Veterinary Hospital

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Meadowridge Veterinary Clinic & Animal Services of North Lansin: Eve C. Brown, DVM

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Winsted Hospital for Animals

Sponsors

Contributions of $250 to $499

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Companion Animal Hospital: Earl Mummeert and Margaret Mummeert, DVM

Companion Animal Hospital of Virginia

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Easthampton Animal Hospital: James G. Hayden, DVM

Easton Animal Hospital: Mitchell Bergman, VMD

Fairfield Veterinary Hospital: Timothy Plunkett, DVM

Flower Valley Veterinary Clinic: James J. Burns, DVM

Freshwater Veterinary Hospital: Jerold S. Bell, DVM

Homer & Tully Animal Clinics: William F. Cadwallader, DVM

Hudson Highlands Vet Med Group: John W. Whitefield, DVM

Jeffersonville Animal Hospital: R. Schwartz, DVM

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Laurelton Animal Hospital: Kenneth D. Boehm, DVM

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Linwood Animal Hospital: Carol A. Cookingham, DVM

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Manetto Hill Animal Clinic: Neil Weiss, DVM

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Suburban Animal Hospital

The Animal Hospitable Veterinary Clinic: Teresa Labusoszewski, DVM

Weights Corners Animal Care Center

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Briarcliff Manor Animal Hospital: Jeffrey J. Moyer, DVM

Bristol County Veterinary Hospital: Amy A. Hard, DVM

Brook Farm Veterinary Center: Donald E. Kanouse, DVM

Camp Road Small Animal Clinic: Karen M. Fischer, DVM

Caring Hands Animal Hospital

Cassidy Animal Care: Sharon Capone, DVM

Central Veterinary Hospital: Michael S. Hardaker, DVM

Central Virginia Veterinary: Samuel Baum, DVM

Ford Veterinary Associates: Walter K. McCarthy, DVM

Fountain House Vet Clinic: Alan Tausz, DVM

Glen Animal Hospital: Ann Macera, DVM

Glencoe Animal Hospital: Valerie Bornemann, DVM

Godspeed Mobile Veterinary: Pamela N. Dumont, DVM

Greene Animal Hospital

Green Animal Medical Center: Anne Sober, DVM

Highland Animal Hospital: Kathryn J. Smith, DVM

Hillsborough Veterinary Clinic: Meghan Taylor and Karen Goss, DVM

Home Veterinary Services: Jeanne Baines, VMD

Lexington Animal Hospital: Sheryl H. Carls, DVM

Medway Animal Hospital: Michael P. Robinson, DVM

Meker Veterinary Clinic: Gafur N. Memon, DVM

Montgomery Animal Hospital: Lewis Cooper, DVM

Monticello Animal Hospital: Larry Mauer, DVM

Mt. Lake Veterinary House Call Service: Kim Slade, DVM
Dr. Harold Zweighaft, DVM ’56, recalls listening to the Institute’s namesake, James A. Baker, lecture his veterinary class on his revolutionary research for a distemper vaccine. “The idea of attenuating a live virus which would give good solid immunity with no risk to the dog was a new concept at that time,” he says.

The Institute has remained an important resource throughout Zweighaft’s career in veterinary medicine. An early research partner, Zweighaft has continued his commitment to the Institute, most recently sponsoring a lecture seat in the Thaw Charitable Trust Lecture Theater. Additionally, Zweighaft is the largest contributor to date to the Institute’s Legacy Walk—purchasing 19 bricks (as of May 2003) in honor of his family’s lifetime of pets and the pets of close friends and clients.

Zweighaft has been a state and national leader in veterinary medicine as a state representative to the American Veterinary Medical Association’s (AVMA) House of Delegates and as a member of the AVMA Executive Board. Over the years, the prominent veterinarian has received a number of honors for his professional contributions. In 1994, Zweighaft was named recipient of the New York State Veterinary Medical Society’s Distinguished Life Service Award; in 2000, he received the Institute’s Founders’ Award. In 2002, Zweighaft retired from his well-established Upper West Side veterinary practice in Manhattan, though he maintains active friendships with many of his long-time clients.

Known for his personalized and attentive service, Zweighaft established a “big-city” animal care practice with a “small-town” feel during his 40-plus years at West Parc Veterinary Clinic. A long-time participant in the Institute’s Memorial Gift Program, Zweighaft says his clients often would express how much his support meant to them.

“I think they found it reassuring to know their pet’s memory was being honored in perpetuity while helping to support research that would benefit future generations of dogs or cats,” he says.

Advances in animal health care as a result of research under way at the Institute have proved useful to both Zweighaft’s practice and his personal interests as a breeder of Boston Terriers. Two examples he mentions include colostrum absorption in newborn puppies and the use of stress radiograph to detect canine hip dysplasia—findings that Zweighaft learned as a result of work at the Institute.

He says it is the level of outreach to the veterinary community that engendered his loyalty to the Institute and its “core of scientists and good fellows.”

“Information and new developments from scientists at the Baker Institute that are unimaginable today will prove invaluable in helping tomorrow’s veterinarians better assist their patients and their pets.”
Paving the Way for Research: Contributors to Baker Legacy Walk

In 2002 we offered a special opportunity to our friends to sponsor a brick in the Institute’s new Legacy Walk. The response was touching and greatly exceeded our expectations. The names of pets recorded in the walk powerfully reflect the bond between the owner and their beloved animal. Other bricks were inscribed in tribute to a person honoring his or her commitment to animals. When visiting the walk, one is struck by the importance of each brick and the human or animal it honors.

Over 600 bricks were initially sponsored, and we continue to receive additional brick sponsorships each month. As a result, the original stage of the brick walk was completed with the first 422 bricks placed. The next phase is scheduled for completion in 2004 once the new site for the walk extension has been selected. For more information about the walk and how to sponsor a brick, please contact Ms. Laurie Lychalk at 607 256 5604 or via email at lal6@cornell.edu.

**Baker Institute Legacy Walk Donors (as of 12/31/02)**

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- Mr. and Mrs. Bob Canning
- Mr. James Cannon
- Ms. Calli Carboni
- The Carl Family
- Dr. and Mrs. Leland Carmichael
- Dr. Maria Castiglione
- Kimberly Chagnon
- Mr. Donald Chase
- Ms. Doreen Chehowski
- Ms. Beverly Ann Chick
- Ms. Marie Cirelli
- Ms. Mary Clair
- Mr. and Mrs. Roger Clark
- Ms. Carol Cleary
- Ms. Jacquelyn Clinton
- Dr. Jeffrey Cohen
- Linda Collins
- Ms. Suzanne Connolly
- Mr. and Mrs. Dave Conroy
- Ms. Barbara Constave
- Mr. and Mrs. Don Cooley
- Ms. Kim Corallo
- Ms. Marie Corinne
- Ms. Sharon Corrigan
- Mrs. Joanne Costa
- The Coulter Family
- Dr. Carmen Courret
- Mr. Stephen Cozzi
- Mr. Nicholas Cretella
- Mr. Duanne Crockett and
- Ms. Trudy Crockett
- Antionette Daab
- Ms. Elizabeth Dalton
- Ms. Joyce Dalton
- Ms. Joan Darcy
- Mr. James Dascoli
- Ms. Helen Davis
- Ms. Irene Davison
- Mr. Anthony De Gregorio
- Ms. Jo Ann De Libero
- Ms. Sylvia de Segur
- Mr. and Mrs. Gordon DeAngelo
- Ms. Janice Dee
- Mr. and Mrs. Carl Deinhardt
- Mr. and Mrs. Michael DeMarco
- Mr. Adam Derrick
- Ms. Lena Dibb
- Ms. Lynne DiCostanzo
- Ms. Sheila DiPlenu
- Ms. Donna Dingee
- Ms. Thalia Dorwick
- Rev. Joseph Driskill
- Ms. Jean Dusoffe

58  Partners in Progress
Mrs. Bernice Hodgin
Ms. Janet Hoch
and
Mr. Lawrence Higbee
Ms. Pam Hideriotis
Ms. Beth Hibbard
Ms. Pam Hideriotis
Mr. Lawrence Higbee
Ms. Katherine Hildreth
Ms. Janet Hoch
Ms. Germaine Hodges
Mrs. Bernice Hodgin

Dr. and Mrs. David Holowka
Mr. J. Robert Horton
Ms. Karen Horton
Dr. Amy Hurd
Ms. Brenda Ireland
Ms. Teresa Jackson
Mr. Ronald Jacobs
Mr. and Mrs. Skip James
Ms. Anna Jentsch
Mr. and Mrs. John Jessee
Mr. Albert Johnson
Ms. Gretchen Johnson
Mr. and Mrs. Peter Jupp
Ms. Nancy Kenzel
Mr. and Mrs. Jack Kane
Ms. Joyce Kaplan
Mr. Brian Kaviar
Mr. Scott Kearney
Mr. and Mrs. Kelly Keech
Mr. Brian Kelleher
Mr. and Mrs. Christopher Keller
Ms. Susan Kerner Hoeg
Mr. and Mrs. Richard Kilheimer
Mr. and Mrs. Gerald King
Mrs. Darlene Klein
Mr. and Mrs. John Koneiser
Ms. Saed Korduner
Ms. Margaret Koski
Mr. and Mrs. Jules Kroll
Ms. Allison Kubik
Mr. Dean Lape
Ms. Sharon LaPer
Ms. Randi Lawitz
Mr. and Mrs. Robert Laughlin
Ms. Maria Jo Lawrence
Dr. Robert Lee
Mr. and Mrs. James Leo
Mr. Michael Leuthauser
Mr. Heath Levine
Mr. and Mrs. Robert Linn
Mr. and Mrs. Robert Lipper
The Lipset Family
Ms. Judith Litt
Dr. Dwight Lopes
Mr. James Loveland
Mr. Dennis Luboyansky
Mrs. Valerie Luther
Mrs. Laurie Lynchak
Ms. Patricia Lyman
Ms. Marjorie Madeira
Dr. Peter Malnati

Ms. Gloria Manente
Mrs. Kimberly Marrese
Mr. and Mrs. Paul Marshall
Ms. Nancy Maruyama
Mastiff Club of America
Ms. Geojenn fink May
Mr. and Mrs. John McCoy
Ms. Patricia McDermott
Ms. Jane McKinnell
Ms. Carol McKinzie
Mr. Larry McMillin
Mr. Thomas McNamara
Mrs. Martha Meskutovicez
Ms. Joanne Meyerhoff
Ms. Jane Miller
Mr. Douglas Miller
Mr. and Mrs. Matthew Miner
Mr. and Mrs. Elean Mishack
Dr. Grayson Mitchell
Mr. Bruce Mitchell
Mr. and Mrs. Bruce Mitchell
Mr. Joseph Mola
Mr. and Mrs. Robert Monaco
Mr. and Mrs. Michael Monopoli
Dr. Charles Montague
Ms. Lynda Morris and Mr. John Kazmik
Mrs. Shirley Moyer
Ms. Joan Mszanski
The Mullen Family
Ms. Irene Murphy
Mr. and Mrs. John Neet
Mr. and Mrs. Steven Neitz
Ms. Ellen Newhouse
Mr. and Mrs. Denton Nichols and
Ms. Donna Mochi
Ms. Diana Niles
Mr. and Mrs. Terry Nofall
Mr. and Mrs. Nail Phuan Ong
Ms. Alida Ostromecki
Ms. Nancy Palmer
Ms. Juliane Palumbo
Mrs. Edith Papastefanou
Mr. and Mrs. Alfred Paulsen
Mr. and Mrs. Richard Pearl
Ms. Joyce Perelman
Mr. and Mrs. Robert Perlstein
Mr. and Mrs. Rocco Petito
Mr. Bruce Phillips
Dr. Gerald Pogue
Dr. and Mrs. Roy Pollock
Mr. and Mrs. Richard Pollock
Ms. Monica Ponce De Leon
Ms. Cynthia Pope
Mr. Edwin Posner
Ms. Arrilla Powell
Maria Raffa
Ms. Jennifer Rautine
Ms. Patricia Reese
Ms. Orianna Richards
Mr. Steven Richman
Ms. Wendy Richter

Ms. Allison Riley
Ms. Victoria Rimensing
Mr. and Mrs. Steve Rockefeller
Mr. and Mrs. David Rojek
Ms. Cheryl Roman
Mrs. Barbara Rosen
Mr. Harry Rubek Jr. and
Mr. and Mrs. H. G. Rubek
Dr. Deirdre Ryan
Ms. Joanna Samson
Ms. Sheila Sanders
Mr. and Mrs. Ed Sands
Ms. Evelyn Savino
Ms. Julie Schaefer
Ms. Sasa Shaffirnoff
Ms. Leslie Schermer
Ms. Anna Scheuer
Ms. Pamela Schider
Mr. John Schofield
Mr. and Mrs. Charles Scott
Mr. Brenda Seal
Mr. Felix Sebacious
Mr. Haskell Seymour
Tracy and DeeDee Shaw
Ms. Gladys Sheil
Ms. Helen Sheldon
Ms. Kay Shipman
Ms. Caroline Shook
Ms. Linda Sichak
Mrs. Debby Simon
Dr. Michelle Singer
Ms. Cheryl Skennion
Ms. Amy Smith
Ms. Anne Smith
Ms. Anne Smith
Mr. Carl Smith
Dr. Kathryn Smith
Ms. Paige Smith
Ms. Julia Snyder
Ms. Diane Snyder
Mr. and Mrs. Russell Solsky
Mr. and Mrs. John Spiegel
Mr. and Mrs. Frank Stafford
Ms. Laurel Stanley
Mr. and Mrs. Curtis Steinhour
Dr. Matthew Stewart
Dr. Tracy Sokol
Dr. John Stoner
Mr. Benjamin Strouse
Ms. Stuanna Sullivan
Ms. Sandra Suplicki
Ms. Mary Surico
Ms. Nancy Swanson
Mr. and Mrs. Bradley Sweeny
Ms. Anne Swift
Ms. and Mrs. John Taranto
Ms. Rosemary Taylor
Mr. Roy Taylor
Ms. Martha Teichner
Dr. Cesar Tello
The Community of the Holy Spirit
Ms. Brenda Thieberg
Dr. John Thomas
Mr. J. Robert Tolchin
Ms. Anne Torda

Town and Country Hospital for Pets
Ms. Donna Trent
Dr. Dina Treman
Dr. and Mrs. Stanley Truffini
Mr. and Mrs. Bill Truscali
Mr. and Mrs. Thomas Tyrell
Ms. Mary Unker
Mr. and Mrs. Michael Vairette
Mr. Peter Valdasta
Mr. and Mrs. James Van Cra
Mr. and Mrs. Clarus Van Zile
Ms. Alena Verderarme
Mr. William Viers
Ms. Patricia Villa
Mrs. Maria Wajdo
Ms. Sandra Waldman
Mr. William Ware
Ms. Wendy Weichert
Mr. Richard Weir III
Mr. and Mrs. John F. Weiss
Ms. Lucy Weizenecker
Mr. Tim Welch
Mr. Barry Werner
Ms. Carolyn Whitesides
Ms. Pauline Willman
Ms. Joan Willson
Ms. Patricia Weldon Wilson
Dr. and Mrs. Michael Woltz
Ms. Sue Woodrow
Robbie and Skip Wright
Yellow Springs Veterinary Clinic
Mr. Eric Young
Dr. James Young
Dr. William Zitek
Dr. Harold Zweighaft
Baker Institute faculty, staff, and students gather in the new Thaw Charitable Trust Lecture Theater for a group photo, April 2003.

Administration

Douglas F. Antczak, Director and Dorothy Havemeyer McConville Professor of Equine Medicine: BA, Cornell; VMD, University of Pennsylvania; PhD, Cambridge University (UK)

Joseph E. Bennett, Facilities Manager: AALAS accreditation

Amy D. Gush, Director of Public Affairs: BS, MBA, Virginia Polytechnic Institute and State University

Jane M. Miller, Administrative Manager: BS, MPS, Cornell

Cydney H. Peters, Director of Communications: BA, New York University

"A dog wags its tail with its heart."

—Martin Buxbaum
Research Units

Infectious Diseases and Immunology

**Bostwick Laboratory of Molecular Biology**

Colin R. Parrish, Professor of Virology: BSc, Massey University (New Zealand); PhD, Cornell

Karsten Hüffer, PhD Candidate: DVM, School of Veterinary Medicine – Hannover (Germany)

Laura M. Palermo, PhD Candidate: BS, MS, University of Buenos Aires (Argentina)

Gail M. Sullivan, Research Technician: AAS, SUNY Agricultural and Technical College at Canton; BA, SUNY College at New Paltz

Jennifer A. Val, PhD Candidate: BS, Binghamton University

Wendy S. Weichert, Research Technician: BS, Cornell

**Equine Genetics Center**

Douglas F. Antczak, Dorothy Havemeyer McConville Professor of Equine Medicine: BA, Cornell; VMD, University of Pennsylvania; PhD, Cambridge University (UK)

Paige Adams, PhD Candidate: BS, DVM, Texas A & M University; MS, University of Minnesota

Donald C. Miller, Research Technician: Cornell

Rebecca L. Tallmadge, PhD Candidate: BS, Cornell

Bettina K. Wagner, Visiting Professor: Dr med vet, University of Hannover (Germany)

**Laboratory of Immunology**

Robin G. Bell, Professor of Immunology: BSc, Australian National University; PhD, John Curtin School of Medical Research (Australia)

Lincoln S. Adams, Research Technician: BS, Hobart College; AALAS accreditation

**Laboratory of Virology**

John S. L. Parker, Assistant Professor of Virology: BVMS, University of Glasgow (Scotland); PhD, Cornell

 Lynne J. Anguish, Research Support Aide: BS, University of New Hampshire; MS, University of Guelph (Canada)

Laboratory of Mucosal Immunity

Judith A. Appleton, Professor of Immunology: BS, Indiana University; MS, PhD, University of Georgia

Daniel P. Beiting, PhD Candidate: BS, Appalachian State University

Susan K. Bliss, Research Associate: BA, Lawrence University; DVM, PhD, Cornell

Lisa P. Daley, PhD Candidate: BSc, University of the West Indies (Jamaica)

Michael S. Duffy, Postdoctoral Fellow: BSc, PhD, University of New Brunswick (Canada)

Lucille F. Gagliardo, Research Technician: BS, Southampton College

Gerardo J. Pineiro, Postdoctoral Fellow: BS, Cornell; MD, Howard University College of Medicine

Seana M. Thrasher, PhD Candidate: BS, DVM, University of Georgia

Institute Employees Receive Service Awards

In 2002, the following employees at the Baker Institute received service awards in recognition of their continuous employment at Cornell.

30 Years
Alma Williams
Research Technician
The Albert C. Bostwick Foundation Laboratory

25 Years
Joseph Bennett
Facilities Manager

15 Years
Elizabeth Corey
Research Technician
The Albert C. Bostwick Foundation Laboratory

5 Years
Jennifer Johnson
Research Technician
Inherited Eye Disease Studies Unit

Laurie Lychalk
Administrative Assistant
Office of Public Affairs

2002 Service Award Recipients pictured with director Doug Antczak. Back row (l to r): Alma Williams, Russ Haus, Joe Bennett, Laurie Lychalk. Front row (l to r): Liz Corey and Jennifer Johnson
The Albert C. Bostwick Foundation Laboratory

George Lust, Professor of Physiological Chemistry: BS, University of Massachusetts; PhD, Cornell

Nancy I. Burton-Wurster, Senior Research Associate: BA, MS, PhD, New York University

Kristen M. Clements, Postdoctoral Associate: BSc, PhD, University of Bristol (UK)

Elizabeth E. Corey, Research Technician: BS, University of Vermont

Virginia M. Scarpino, Research Technician: BS, Edinboro State College; MA, SUNY College at Geneseo

Alma J. Williams, Research Technician: BA, University of Pennsylvania; MS, Cornell; AALAS accreditation

Inherited Eye Disease Studies Unit

Gustavo D. Aguirre, Alfred H. Caspary Professor of Ophthalmology: VMD, PhD, University of Pennsylvania; PhD(hc); Diplomate, American College of Veterinary Ophthalmologists

Gregory M. Acland, Senior Research Associate: BVSc, University of Sydney (Australia); Diplomate, American College of Veterinary Ophthalmologists

Kathleen Aguirre, Administrative Assistant

William A. Beltran, PhD Candidate: DVM, National Veterinary College of Alfort (France); MS, University of Paris (France)

Celine Casse, Postdoctoral Associate: BS, University P et M Curie (France); MS, PhD, University R Descartes (France)

Pam E. DiDia, Research Technician

Orly Goldstein, Research Support Specialist: BS, the Hebrew University (Israel); MS, Tel-Aviv University (Israel)

Da-Nian Gu, Research Associate: BS, MS, PhD, Fu Dan University (China)

Linda S. Hunter, PhD Candidate: BS, DVM, Cornell

Jennifer L. Johnson, Research Technician: BS, Cornell

Julie A. Jordan, Research Technician: AS, Tompkins-Cortland Community College

Anna V. Kukekova, Research Associate: MS, St. Petersburg State University (Russia); PhD, Institute of Cytology – Russian Academy of Science (Russia)

John L. McElwee, Research Technician: BS, Binghamton University

Brian J. Miller, Research Support Specialist: BS, Pennsylvania State University

Jacque L. Nelson, Research Technician: AS, Jamestown Community College; BS, Cornell

Susan E. Pearce-Kelling, Research Support Specialist: BS, MS, Cornell

Duska J. Sidjanin, Research Associate: BS, MS, University of Rochester; PhD, Northern Illinois University

Elijah J. Talamas, Research Technician: BA, Cornell

Keith R. Watamura, Administrative Assistant: BA, University of Minnesota

Barbara Zangerl, Research Associate: MVSc, PhD, University of Veterinary Medicine Vienna (Austria)

Laboratory for the Study of Inherited Canine Reproductive Diseases

Vicki N. Meyers-Wallen, Associate Professor of Reproduction: BS, University of Maryland; VMD, PhD, University of Pennsylvania; Diplomate, American College of Theriogenologists

Kumar S. D. Kothapalli, Postdoctoral Associate: BSc, MSc, Andhra University (India); PhD, Osmania University (India)

Laboratory of Reproductive Biology

Alexander J. Travis, Assistant Professor of Reproductive Biology: AB, Princeton University; VMD, PhD, University of Pennsylvania

Leanna J. Natale, Research Technician: BS, MS, Worcester Polytechnic Institute

Collin A. Wolff, Research Technician: BS, Cornell

Emeritus Faculty

Max J. G. Appel, Professor of Virology, Emeritus: Dr med vet, University of Hannover (Germany); PhD, Cornell

Leland E. Carmichael, John M. Olin Professor of Virology, Emeritus: AB, DVM, University of California; PhD, Cornell; PhD(hc); Diplomate, American College of Veterinary Microbiologists

Ben E. Sheffy, Caspary Professor of Nutrition, Emeritus: BS, MS, PhD, University of Wisconsin
Administrative Support

Anita S. Hesser, Administrative Assistant and Assistant Network Administrator: AS, SUNY Empire State College
Rita C. Hoffay, Accounts Assistant: AAS, SUNY College at Cobleskill
Laurie A. Lychalk, Administrative Assistant, Public Affairs: AAS, Tompkins Cortland Community College
Catherine M. Reed, Assistant to the Director: BS, SUNY College at Cortland
Dorothy K. Scorelle, Administrative Assistant: BS, SUNY College at New Paltz
Susan M. Williams, Office Receptionist/Administrative Assistant

Maintenance and Grounds

David H. Edwards, Jr., Maintenance Mechanic
Russell F. Haus, Maintenance Mechanic
Edward H. Thompson, Jr., Laboratory Attendant

Animal Care

Jackie L. Wright, Vivarium Supervisor: AAS, SUNY College of Technology at Delhi; BS, Syracuse University; AALAS accreditation
Kevin T. Draiss, Animal Technician: AAS, SUNY Agricultural and Technical College at Delhi; BS, Cornell; AALAS accreditation
Scott C. Hoffay, Animal Technician: AAS, SUNY College at Cobleskill
Shannon D. Kellogg, Animal Technician
Julie D. Reynolds, Animal Technician
Jonathan R. Wood, Animal Technician: AAS, Finger Lakes Community College

Veterinary Students

Katelyn Romeo (Meyers-Wallen Laboratory)
Claudia Sandoval (Meyers-Wallen Laboratory)

Undergraduate Students

Kathleen A. Bonawandt (Lust/Burton-Wurster Laboratory)
Cory J. Brown (Antczak Laboratory–Horse Barn crew)
Erin L. Goodrich (Antczak Laboratory–Horse Barn crew)
Bryn A. Hoffman (Lust/Burton-Wurster Laboratory)
Eric L. Miller (Parrish Laboratory)
Jessica C. Nehring (Antczak Laboratory–Horse Barn crew)
Kim S. Pinkney (Antczak Laboratory–Horse Barn crew)
Jonathan Rivnay (Office of Public Affairs)
Hilde S. Roman (Antczak Laboratory–Horse Barn crew)
Katharina E. Russ (Antczak Laboratory–Horse Barn crew)
C. Owen Smith (Aguirre Laboratory)
Lauren M. Schulke (Lust/Burton-Wurster Laboratory)
Suzanne L. Stachnki (Antczak Laboratory–Horse Barn crew)
Jeremy B. Sykes (Appleton Laboratory)
Lindsay A. Williams (Parrish Laboratory)
Catherine E. Wood (Antczak Laboratory)

"The disposition of noble dogs is to be gentle with people they know and the opposite with those they don't know.... How, then, can the dog be anything other than a lover of learning, since it defines what's its own and what's alien."
—Plato
“Dogs are our link to paradise. They don’t know evil or jealousy or discontent. To sit with a dog on a hillside on a glorious afternoon is to be back in Eden, where doing nothing was not boring—it was peace.”

— Milan Kundera, Czech writer, 1929—
He Is Just My Dog

He is my other eyes that can see above the clouds; my other ears that hear above the winds. He is the part of me that can reach out into the sea.

He has told me a thousand times over that I am his reason for being; by the way he rests against my leg; by the way he thumps his tail at my smallest smile; by the way he shows his hurt when I leave without taking him. (I think it makes him sick with worry when he is not along to care for me.)

When I am wrong, he is delighted to forgive. When I am angry, he clowns to make me smile. When I am happy, he is joy unbounded.

When I am a fool, he ignores it. When I succeed, he brags. Without him, I am only another man. With him, I am all-powerful.

He is loyalty itself. He has taught me the meaning of devotion.

With him, I know a secret comfort and a private peace. He has brought me understanding where before I was ignorant.

His head on my knee can heal my human hurts. His presence by my side is protection against my fears of dark and unknown things.

He has promised to wait for me... whenever... wherever—in case I need him. And I expect I will—as I always have. He is just my dog.

—From “Tears and Laughter: A Couple of Dozen Dog Stories” by Gene Hill. Copyright Gene Hill. All rights reserved.