



Our Vision

To serve the animals that so faithfully serve mankind

Our Mission

To improve animal health through basic and applied research

Our Goal

To be the leading institution in animal health research worldwide



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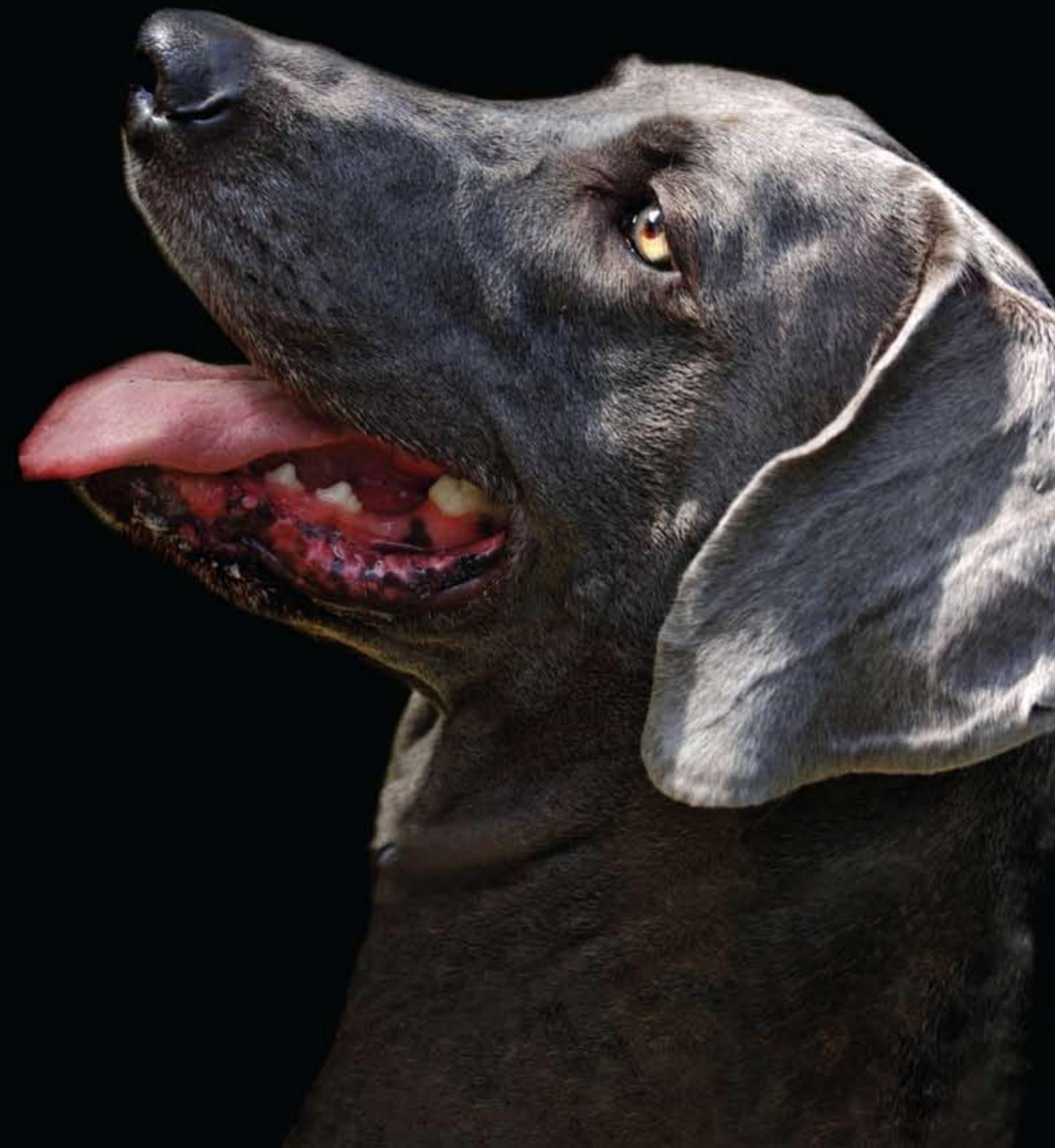




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Director's Message

Research advances in Baker Institute laboratories today are making a difference for tomorrow's generation of companion animals.

Dear friends,

Welcome to the Baker Institute's 2007 Annual Report. A research institute is comprised of many parts, all of which contribute in important ways to its successful operation. The Baker Institute is blessed with many resources, including our dedicated support staff, fine laboratories and research facilities, and enthusiastic and talented students and advanced trainees who will become the next generation of animal health researchers. However, the drivers of the complex process of scientific investigation are the Institute's senior scientists, who have devoted their careers to advancing veterinary medicine through research. It is my pleasure in this letter to tell you about some of their recent achievements and awards.

In recognition of his studies of reoviruses and caliciviruses, Dr. John Parker was the recipient of the 2007 Pfizer Award for Research Excellence in Cornell's College of Veterinary Medicine. Dr. Anna Kukekova was awarded a major grant from the US National Institutes of Health for her exciting studies of the genetic basis of tame behavior in a unique population of domesticated foxes in Siberia. Dr. Alex Travis was chosen to lead the Veterinary College's new program in Wildlife Conservation. Dr. Travis is a specialist in reproductive biology, and he has a strong interest in assisted reproduction technology as applied to endangered species. Dr. Judy Appleton was appointed as the Associate Dean for Academic Affairs in Cornell's College of Veterinary Medicine. Dr. Appleton contin-

ues to serve as the Caspary Professor of Immunology at the Institute, but she has added important new responsibilities to her portfolio.

In 2007 the Institute also added two scientists to its roster. Dr. Scott Coonrod joined the Institute faculty, moving to Ithaca from Weill-Cornell Medical College in New York City. Dr. Coonrod is a reproductive biologist who also has a strong research program in cancer biology. Finally, Dr. Douglas McGregor, former Baker Institute Director and Associate Dean of Research in the College of Veterinary Medicine, rejoined the Institute faculty. Dr. McGregor directs the Veterinary College's Leadership Program that introduces veterinary students from around the world to the many career possibilities in academic veterinary medicine and public service.

In 2010 the Institute will mark the 60th anniversary of its founding with a special symposium on animal health research, and other events throughout the year. We look forward in anticipation to this milestone, and the opportunities it will provide for reflection on our accomplishments and preparation for the future.

With best wishes and thanks for your continuing support of our programs,

Doug Antczak, VMD, PhD
Director, Baker Institute for Animal Health

The quest for understanding—at the heart of research—encourages discovery and creativity. University research generates new knowledge and leads to new products and processes that improve the well-being of our citizens. Research offers the promise that challenges facing society—for example, fertility issues—may someday be resolved.



From infertility to overpopulation

Roughly fifteen percent of couples in America face infertility. In many cases, the causes are not known, thus compounding their frustration. Dr. Scott Coonrod aims to change this.

At the other end of the issue, female cats and dogs are routinely spayed to prevent pregnancy. This requires surgery—complete with anesthesia—and therefore is expensive and somewhat painful. Dr. Coonrod's research hopes to uncover a less invasive alternative for contraception.

"As a graduate student, I took an elective course in fertility and early development," says Dr. Coonrod. "I saw fertilization occur in a dish, and I was fascinated. That was it. Since that time, answering reproductive biology questions has been central to my career."

When an egg cell is released from the ovary, it is either fertilized within hours or it dies. If it is fertilized, specific proteins within the egg then orchestrate a process called the egg-to-embryo transition. The proteins mediating this transition remain poorly understood. However, Dr. Coonrod has recently isolated an abundant egg protein—PADI6—and determined that it plays an important role in the development of a unique structure: the cytoplasmic lattices. He has also found that the lattices are required for the egg-to-embryo transition, and for development beyond the two-cell stage.

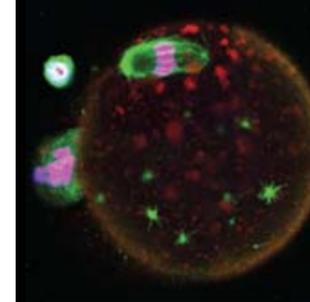
"This indicates that PADI6 represents one of a handful of known mammalian factors that are produced by the mother and then endowed to the embryo to help manage

the early stages of development," says Dr. Coonrod. "If you remove PADI6, the egg stops developing. We can use this knowledge to improve our understanding of fertility and infertility."

His research also has implications for the development of new companion animal contraceptives. In certain mouse model systems, some of the proteins that are associated with the egg cytoplasmic lattices appear to instigate an autoimmune response that targets the ovaries and leads to infertility. With this in mind, Dr. Coonrod and his team speculate that it may be possible to inject female dogs and cats with synthetic forms of these lattice proteins and "trick" the animal's immune system into rejecting their eggs, thus eliminating the need for surgery.

Another PADI enzyme—PADI4—is also on Dr. Coonrod's radar screen because this molecule appears to play a role in different types of human, and possibly, companion animal cancer. His research focuses on breast cancer.

"We believe this protein may have the power to modify genes that are normally activated by estrogen, thereby suppressing their activity," says Dr. Coonrod. "Given the strong link between estrogen and some types of breast cancer, our findings suggest that PADI enzymes may play an important role in breast cancer. At some point in the future, we would like to identify molecules that can block PADI4 activity and then test whether these inhibitors could be utilized as drugs to treat breast cancer in humans and companion animals."



Confocal image showing the localization of PADI6 (red) and the tubulin cytoskeleton (green) in a fully grown ovulated mouse egg.



Scott Coonrod, MS, PhD

Associate Professor of Epigenetics and Reproductive Biology

"I saw fertilization occur in a dish, and I was fascinated. That was it. Since that time, answering reproductive biology questions has been central to my career."



Information is at the root of independence. While access to knowledge is commonplace and expected in many societies, it is not always the norm. Many Cornell initiatives, such as the current investigations of Dr. Hussaina Makun, aim to change this.

Empowering women, building communities

Fulbright fellow Dr. Hussaina Makun wants to see the mortality rate of goats in Nigeria drop by about fifty percent, which could translate into better nutrition for rural children. Her research may hold the key. It also has the potential to help Nigerian women gain newfound independence.

At the Baker Institute, she has access to technology and expertise not found in Nigeria. She's leveraging these resources to reduce the impact of a parasite—a particular type of round worm that feeds like a hookworm. The worm causes an increase in blood loss that leads to anemia, especially in young goats. Her research will have broad impact, as this worm infects the goat population worldwide, as well as some species of sheep.

Dr. Makun is on the faculty of veterinary medicine at the National Animal Production Research Institute, Ahmadu Bello University, in Nigeria, and a visiting scholar in Dr. Susana Mendez's lab. Her current research continues work that was funded by an Agropolis award. In that project, she completed a series of experiments regarding the feeding and milk production of two types of goats: the Red Sokoto and the Sahelian. She also conducted a consumer survey that explored perceptions about goat products. She chose to study goats because of their impact on the economic and social aspects of Nigerian life. Goats are an important source of food and income and also present an avenue for women to alleviate the financial strain they often face.

"In my area, women stay at home—often for religious reasons—and are typically cut off from information sources," says Dr. Makun, explaining that as homemakers, they tend to the goats. "If the goats have problems, women have nowhere to turn. The goats—and the whole community—suffer. With information, they will gain some control of the situation, of their lives."

Dr. Makun is looking for a protein that will protect goats from the invasive worm. Identifying the protein is the first step in the creation of a vaccine. Currently, in Nigeria, goats are often left defenseless. Although preventative measures and treatments exist in Nigeria, they may not be readily available to women goat farmers due to cost and inhibitions. The worm, though, has global reach. In the United States, this particular parasite also runs rampant.

"Goats in America also face infestation by this worm," says Dr. Makun, who is partnering with local goat farmers to conduct further research. "It is a problem here, though, for different reasons. Here we've over-drugged, and the parasite has become resistant. The drugs are failing. We need a new approach to control this worm."

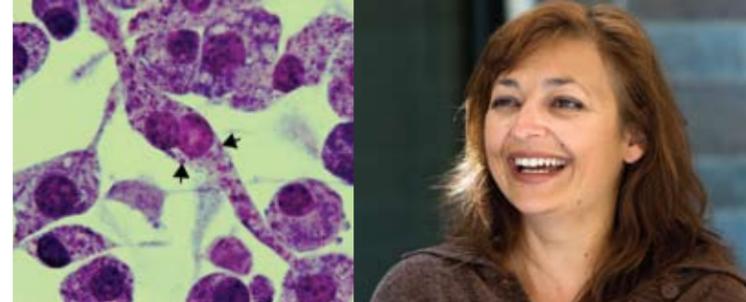


Hussaina Makun, DVM

Visiting Fulbright Fellow,
Mendez Laboratory

"In my area, women stay at home—often for religious reasons—and are typically cut off from information sources."

The world's leading authority on global warming, the Intergovernmental Panel on Climate Change (IPCC), has concluded that unchecked global warming will cause a significant increase in human mortality due to extreme weather and infectious disease. No country, they say, even industrialized nations like the United States, will escape these impacts. Dr. Susana Mendez's research has the potential to control some effects of global warming.



Mouse monocytes infected with *Leishmania* parasites which cause leishmaniasis in humans and dogs. Parasites (arrows) can be seen in the interior of cells as pairs of dark purple structures.

Susana Mendez, DVM, PhD

Assistant Professor of Immunology and Infectious Diseases

Global collaboration addresses disease with worldwide reach

An agreement established in 2007 between Cornell University and Spain's College of Veterinary Medicine at the Complutense University of Madrid is creating a global network of experts in the battle against infectious diseases. The agreement was conceived after Dr. Susana Mendez conducted a workshop in Spain, where she met others who were also interested in developing a deeper understanding of animal diseases.

Dr. Mendez studies canine leishmaniasis, a potentially fatal disease of dogs that also affects humans. According to the Centers for Disease Control and Prevention (CDC) leishmaniasis is found in over eighty countries, primarily in the tropics and subtropics. More than ninety percent of the world's human cases of visceral leishmaniasis occur in India, Bangladesh, Nepal, Sudan, and Brazil. However, leishmaniasis is also found in some parts of Mexico, Central and Southern America.

A March 2006 article published in the CDC's *Emerging Infectious Diseases*, suggests that the disease is also found in North America:

In 2000, visceral leishmaniasis was implicated as causing high rates of illness and death among foxhounds in a kennel in New York. . . . Infected foxhounds were found in eighteen states and two Canadian provinces. No evidence of infection was found in humans. The infection in North America appears to be widespread in foxhounds and limited to dog-to-dog mechanisms of transmission; however, if the organism becomes adapted for vector transmission by indigenous phlebotomines [sand flies], the probability of human exposure will be greatly increased.

In visceral leishmaniasis, sand flies infect dogs and humans with a parasite that affects the liver, spleen, and kidneys and eventually results in organ failure. In areas where visceral leishmaniasis is relatively unknown, symptoms can take up to two years to identify.

Efforts to investigate the causes, and to develop preventive measures and treatments, have been stymied in some parts of the Americas, since the disease is often misdiagnosed.

Dr. Mendez and her team are developing vaccines for leishmaniasis as well as conducting genetic studies to identify the genes involved in contracting or resisting the disease. Time is of the essence, as environmental factors like global warming and increased travel to endemic areas have given flight to the sand fly vector— instrumental in the spread of the disease.

The new partnership is helping to advance research in North America. The formal arrangement between Cornell University and its Spanish partners facilitates the exchange of methodologies, personnel, and discoveries. More specifically, through the collaboration, Dr. Mendez has free access to samples (which are rare in the United States, but absolutely essential to her research), genetic information about dogs and their resistance to disease, the parasite strain, and developments in methodologies.

“In 2000, visceral leishmaniasis was implicated as causing high rates of illness and death among foxhounds in a kennel in New York. . . . Infected foxhounds were found in eighteen states and two Canadian provinces.”



Preserving fertility and preventing disease: researchers in the laboratory of Dr. Alex Travis strive to make progress to benefit dogs, cats, wildlife, and humans as well. It is an exciting time in the lab, with their work recently being featured on television outlets including *MSNBC*, the *Discovery Channel*, and the *Australian Broadcasting Corporation*, and in print media including the *Journal of the American Medical Association*, *Discover* magazine and *Nanotechnology News*.

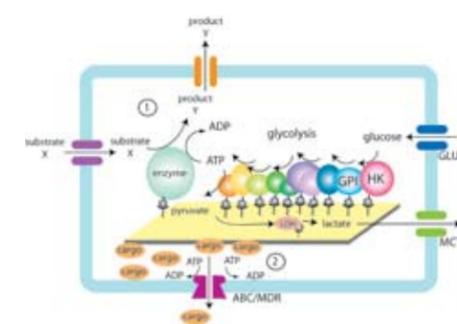
Two “firsts” in Travis lab

Dr. Alex Travis is passionate about conserving life. This passion has taken him from unpredictable African forests to controlled Cornell laboratories, and resulted in groundbreaking discoveries that bear promising insights for both endangered species and humans fighting diseases. His research, which focuses on preserving fertility and exploring birth control methods, may also improve our ability to release disease-fighting drugs, detect toxins, and perform other medical tasks within a patient’s body.

In 2007, Dr. Travis and his team realized two goals: they successfully completed stem cell transplantation in a dog, and they harnessed the power of proteins found on the tail of a sperm for a new field of science called “nanotechnology.”

Transplanting stem cells from the testes of an animal offers the opportunity to conserve the genetics of endangered species. Wild animals die in captivity for many reasons, and deaths of young animals are of special concern because these individuals are lost before contributing their genetic information to a species’ gene pool. Stem cells are found in the testes from the time of birth, and offer a way to preserve an animal’s future breeding ability even though it might not yet produce its own sperm. While the technique has been used successfully in rodents and a few agricultural species, Dr. Travis and his team recently performed the process in a dog.

“This is the first time male germline stem cells have been transplanted in a dog,” says Dr. Travis. “We now have a new tool for helping species like the African Wild Dog make a comeback.”



A schematic diagram showing a future design of a medical nanodevice. Glucose enters the device and ATP is generated, allowing either (1) enzymes to function or (2) transporters to pump out drugs to defined targets.



Alexander J. Travis, VMD, PhD

Assistant Professor of Reproductive Biology

“We now have a new tool for helping species like the African Wild Dog make a comeback.”

There were once about 500,000 African Wild Dogs. Now there are only about 5,000, and the animal is protected by the Endangered Species Act.

Stem cell transplantation also has implications for preventing diseases. The technology helps researchers to identify a specific gene as the cause of a condition and produce genetic screening tests capable of treating or possibly eliminating the disease from a breed.

Through efforts in his lab, Dr. Travis also discovered this year that proteins on a sperm’s tail, which provide energy for it to swim, can be modified and used to power extremely small medical devices, which could then be implanted into a human body. These hypothetical devices could be used, for example, to deliver drugs to the most ideal location in a patient’s body, such as a tumor.

“We’re borrowing the sperm’s strategy for locomotion,” says Dr. Travis, who conceived of the idea after noting that many proteins on the sperm’s tail are tied down to solid structures within the cell, but still function. By modifying the “targeting domains” responsible for this binding, they manipulated the proteins to stick to man-made surfaces while still leaving the proteins functional.

“We believe it is one of the first, if not the first, example of building a biological pathway on a manmade surface,” says Dr. Travis.



Many believe the dog was the first domestic animal. Animals are considered “domesticated” when they are kept for clear purposes, their breeding is controlled, survival depends on humans, and they have acquired traits not found in the wild. Dr. Anna Kukekova’s research seeks to understand how this domestication happens, using silver foxes for her research.



Anna V. Kukekova, MS, PhD

Research Associate,
Acland Laboratory

Connecting the dots between genes and behavior

Why do some animals—even those within the same species—exhibit aggressive tendencies while others show (and seem to desire) affection? The answer, according to a collaborative team of researchers who span two continents, may be found in a complex combination of genes. To add a few more pieces to the puzzle, these researchers develop genetic tools to focus their study on specific strains of silver fox. In 2007, their work was published in several journals, including *Genome Research* and *Behavior Genetics*.

Dr. Anna Kukekova, a member of Dr. Greg Acland’s lab, works with researchers at the Institute of Cytology and Genetics in Russia, and the Department of Biology at the University of Utah, to determine the location of genes underlying the behavioral differences between the fox strains. The research is funded by the National Institute of Mental Health (one of the twenty-seven National Institutes of Health) and other funds.

“Foxes from the strain selected for tame behavior exhibit friendly, dog-like response to humans as soon as they open their eyes, while foxes selected for aggressive behavior are aggressive toward humans and difficult to handle,” says Dr. Kukekova. “We believe a combination of genes and environmental factors is responsible for these differences in behaviors.”

The silver fox has been successfully domesticated in an experimental breeding program at the Institute of Cytology and

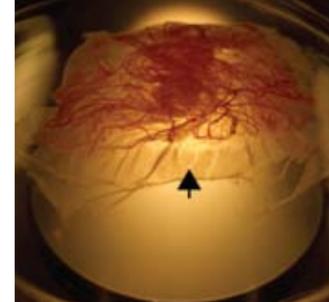
Genetics of the Russian Academy of Sciences. Further, because of the close evolutionary relationship between the fox and the dog, and the strong genomic conservation of the two species, researchers were able to adapt canine molecular genetic tools to build the first meiotic linkage map of the fox genome.

The team has identified behavioral traits that can be measured objectively and quantitatively with a four-step, four-minute test. Behavior of each fox used in the study is videotaped and analyzed. Researchers monitor a fox’s actions; location in the cage and time spent there; body postures; positions of particular parts of the body; and sounds. This approach provides researchers with behavioral measurements that can be used for genetic studies.

Dr. Kukekova describes foxes as the “perfect pet animal” because they exhibit a unique combination of dog and cat behaviors. She believes that fox research will yield new insights into the genetic mechanisms underlying animal domestication. Heretofore, the genetic basis of mammalian behavior has been studied predominantly in rodent species. Expanding genetic research to species that lie between humans and rodents in biological and behavioral complexity has the potential to improve understanding of mammalian behavior that is not observed in traditional genetic models.

“Foxes just might be the ‘perfect pet animal’ because they exhibit a unique combination of dog and cat behaviors.”

Dr. Douglas Antczak's research offers clues into the complex world of reproduction, with potential insights for those studying in other areas, including transplants (more specifically, reducing rejection of transplants) and the treatment of important human and animal diseases.



Day 34 equine conceptus in a Petri dish, showing the prominent pale band of tissue of the invasive trophoblast of the chorionic girdle (arrow), used in the placenta transplant experiments described below.



Douglas F. Antczak, VMD, PhD

Dorothy Havemeyer
McConville Professor of
Equine Medicine

Discovering how the placenta evades maternal immune destruction

In 2007, Dr. Doug Antczak and his team discovered that a mass of transplanted tissue hardly bigger than the tip of a pencil can be powerful enough to profoundly change the physiology and behavior of a half-ton horse. The finding suggests that bioengineered cells—for instance those that might be designed to produce insulin—could treat important human and animal diseases.

Driven by a question that has motivated the Antczak lab for thirty years—what biological mechanisms exist that allow a mammalian fetus to survive in the uterus without being rejected by the mother's immune system—the team transplanted tissue from a pregnant mare's placenta into a non-pregnant mare.

"The fetus and placenta—together called the conceptus in early pregnancy—develop from the fertilized egg in mammals, and as such are a separate organism living within the mother's womb," says Dr. Antczak. "The conceptus shares half its genes with the mother, but not enough to explain why it is not rejected. Science works in strange ways, though. Our work not only provides new insights into the question, but it produces results with implications for other medical problems as well."

The transplanted tissue secreted equine chorionic gonadotropin (eCG), a hormone produced by the specialized invasive tro-

phoblast cells of the equine placenta. As with hCG in women, its role is to promote progesterone production by the ovaries—a critical component of the maintenance of pregnancy.

"Indeed, the transplanted tissue produced sufficient eCG to be detected in the blood of the recipient mares," says Dr. Antczak, who explained how this indirect monitoring confirmed the lifespan of the transplants. "The effect of the transplants was that the recipient mares acted as if they were pregnant," states Antczak. "The changes in the behavior of the mares carrying placental transplants was very dramatic. They stopped showing estrus behavior for the ninety day life-span of the transplants.

"This type of research cannot be conducted in laboratory incubators or test tubes," says Dr. Antczak. "It must be done in live animals. Fortunately, the experiments are safe, non-surgical, and non-invasive. The artificial system we developed has similar properties to normal pregnancy. Furthermore, our results suggests that other biologically active molecules might be able to be delivered through cellular transplantation." Much research remains before this dream can become a reality, but a first important step has been taken.

"The fetus and the placenta are separate organisms," says Dr. Antczak. "They share some genes, but not enough to explain why a fetus is not rejected. Science works in strange ways, though. Our work not only provides new insights to the question, but it produces results with implications for other mammalian species as well."

More than 30 million Americans live with one or more dogs, the majority of whom are kept as social companions. Our dogs also serve as hunting partners, herders and guardians. They enhance the quality of life for people with disabilities, guiding and alerting those with impaired vision or hearing, for instance. In addition, the concept of dog-assisted therapy has evolved into tremendously successful programs in the areas of physical rehabilitation and psychological recovery. Dr. George Lust's research works to ensure that these animals lead long, healthy lives.

Breakthrough discovery leads to powerful genetic test

The challenge was posed nearly forty years ago; the trail has been hot for the last two. Long-standing partnerships have resulted in advances in diagnosing and understanding hip dysplasia in dogs, a disease that occurs when a specific combination of genes exists and results in hip osteoarthritis and disability.

Research indicates that, in addition to Labrador Retrievers, discoveries in the diagnosis and treatment of hip dysplasia will assist other breeds including Border Collies, Golden Retrievers, Great Danes, Rottweilers, German Shepherds and Newfoundland dogs, and has the potential to offer insights into similar diseases in other mammals.

In 2007, with grant support from the Morris Animal Foundation and Pfizer Incorporated, Dr. George Lust and colleagues Dr. Rory Todhunter, Steven Friedenbergs and Dr. Zhiwu Zhang discovered the first panel of genetic markers that could lead to genetic testing for the diagnosis of canine hip dysplasia. With a new sample of dogs, they plan to verify the accuracy of this panel of genetic markers for hip conformation that can predict the breeding value of the dog. A breakthrough in diagnosis, these genetic tests are expected to be more accurate than current procedures, less expensive to perform, and enable earlier identification of

both normal dogs and those at risk for hip dysplasia. Genetic tests may also reduce the need for progeny testing.

"This has been a long-sought goal," says Dr. Lust. "Now, with one DNA sample we are on the road to telling if a young dog will develop normally. We will not need to wait until the dog is old enough to undergo the current radiographic screening."

The research team also identified a mutation in the gene for fibrillin 2 that segregates in a sample of dysplastic dogs and nondysplastic dogs. Fibrillin 2 is a gene expressed in the tissue of hip joints. This is the first gene reported to be associated with canine hip dysplasia. The discovery opens opportunities for defining the biochemical basis of the disease.

In other related research, Dr. Lust partnered with Dr. Bernard G. Steinetz at the New York University Medical Center to study the relationship of two milk-borne hormones—relaxin and estrogen—to the onset of hip dysplasia. In a controlled study, the investigators concluded that early anti-hormone treatments may be able to negate the effects of the milk-borne hormones as they relate to induction of canine hip dysplasia.



George Lust, PhD

Professor of Physiological Chemistry

The Albert C. Bostwick Foundation Laboratory

"A breakthrough in diagnosis, the genetic test is expected to be more accurate, less expensive to perform, and enable earlier identification of both normal dogs and those at risk for hip dysplasia."

2007 Publications

Faculty represented in 2007: Acland, Antczak, Appleton, Bliss, Carmichael (Emeritus), Coonrod, Lust, Mendez, Meyers-Wallen, Parker, Parrish, Travis

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Research Laboratories

Gregory M. Acland, BVSc
Professor of Medical Genetics
Inherited Eye Disease Studies Unit

Dr. Acland's laboratory uses the canine genome map to investigate blindness (retinal atrophy) in dogs. This disease follows the same course as retinitis pigmentosa, the most common cause of inherited human blindness.

Team members:

Anna Kukekova, Research Associate

William A. Beltran, Post-DVM/PhD Candidate

Linda S. Hunter, Post-DVM/PhD Candidate

Orly Goldstein, Research Support Specialist

Jennifer L. Johnson, Research Support Specialist

Susan E. Pearce-Kelling, Research Support Specialist

Pam E. Hammond, Research Technician

Grants:

2004–2009. Principal Investigator. “Models of hereditary retinal degeneration.” National Institutes of Health. 5 R01 EY06855. Current year direct costs: \$472,478. Total project direct costs: \$3,757,221.

2007–2011. Co-Principal Investigator. “Molecular mechanisms of social behavior.” National Institutes of Health. 1 R01 MH077811-01A1. Current year direct costs: \$228,600. Total project direct costs: \$914,400.

2004–2009. Principal Investigator. “Pre-Clinical Medical Therapy Evaluation Center (Cornell Module).” Foundation Fighting Blindness. C-NY01-0404-0247. Current year direct costs: \$247,117. Total project direct costs: \$1,345,002.

2007–2010. Principal Investigator. “Pooled Association Mapping for Canine Hereditary Disorders.” Morris Animal Foundation. D07CA-085. Current year direct costs: \$71,925. Total project direct costs: \$178,530.

2007–2009. Principal Investigator. “Grants for Growth: Genetic test for hereditary cataract in dogs.” NYS Metropolitan Development Association. Current year direct costs: \$15,786 (Cornell portion). Total project direct costs: \$42,973.

2007–2008. Co-Principal Investigators. “Fine gene mapping and candidate gene sequencing: Small breed dog with Portosystemic Vascular Anomalies (PSVA) and Microvascular Dysplasia (MVD).” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$24,952.

2006–2007. Principal Investigator. “Identification of the mutation causing collie PRA.” Collie Club of America. Current year direct costs: \$23,003.

Douglas F. Antczak, VMD, PhD
Dorothy Havemeyer McConville
Professor of Equine Medicine
Equine Genetics Center: Equine Immunology

For twenty years our program has focused on the biological interactions that take place between a mother and fetus during pregnancy. In particular, we are concerned with how the placenta and fetus avoid recognition and destruction by the maternal immune system. This is an intriguing question that has broad applications to many areas of biology and medicine, including

organ transplantation and cancer biology. Read more about his work on pages 12-13.

Team members:

Amanda de Mestre, Postdoctoral Scientist

Donald Miller, Research Support Specialist

Leela Noronha, Graduate Student

Christina Costa, Lab Technician

Jennifer Cassano, Undergraduate Student

Melissa Restifo, Undergraduate Student

Grants:

2005–2010. Principal Investigator. “Split immunological tolerance to trophoblast.” National Institutes of Health. 5 R01 HD049545-03. Current year direct costs: \$165,339. Total project direct costs: \$840,669.

1980–present. Principal Investigator. “Equine Histocompatibility Antigens.” Dorothy Russell Havemeyer Foundation. Current year direct costs: \$40,000.

1995–2009. Principal Investigator. “Umbrella support for horse genome project.” Dorothy Russell Havemeyer Foundation. Current year direct costs: \$50,000. Total project direct costs: \$750,000.

1986–present. Principal Investigator. “Summer Fellowship Program for Veterinary Students.” Dorothy Russell Havemeyer Foundation. Current year direct costs: \$11,000.

2005–2008. Principal Investigator. “Horse Genomics: Linear mapping and microarray development.” University of Kentucky/Morris Animal Foundation. Current year direct costs: \$9,000 (Cornell portion). Total project direct costs: \$27,000 (Cornell portion).

2006–2007. Principal Investigator. “Horse Genome Project: Functional genomics through equine microarrays.” Harry M. Zweig Memorial Fund for Equine Research. Current year direct costs: \$38,133. Total project direct costs: \$77,667.

Judith A. Appleton, PhD

Alfred H. Caspary Professor of Immunology
Laboratory of Mucosal Immunity, Nematodes,
and Immunoparasitology

Roundworms, or nematodes, are important causes of diseases in animals, yet relatively little is known about how they sustain themselves in the animals that they infect. Dr. Appleton's research aims to elucidate and exploit the ways by which the host's immune response interferes with parasitism by nematodes. We are currently studying two important pathogens, *Trichinella spiralis* and *Parelaphostrongylus tenuis*.

Team members:

Lisa Daley, Graduate Student

Lisa Blum, Graduate Student

Dr. Valeria Fabre, Post-doctoral Associate

Carolyn McGuinness, Graduate Student

Nebiat Gebreselassie, Graduate Student

Kate Justus, Undergraduate Student

Kimberley Schuller, Undergraduate Student

Lucy Gagliardo, Technician

Grants:

2004–2009. Principal Investigator. “Immunity to parasitic infection.” National Institutes of Health. 5 R01 AI014490. Total Direct Costs: \$213,341. Total project direct costs: \$1,096,395.

2006–2008. Co-Principal Investigator. “Immune Modulation by Intestinal Cell Differentiation.” National Institutes of Health. R01 AI39368. Total Direct Costs: \$10,191 (Cornell portion). Total project direct costs: \$20,085 (Cornell portion).

2005–2008. Co-Principal Investigator. “Induction of hepatic tolerance to parasitic nematodes.” National Institutes of Health. 5 K08 DK067290. Total Direct Costs: \$104,254. Total project direct costs: \$312,832.

2007–2008. Principal Investigator. “Production of recombinant nanobodies for diagnostic and research applications.” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$20,012.

Brian Cherrington, Post-doctoral Associate
Eric Morency, Post-Doctoral Associate
Piraye Yurttas, Graduate Student
Robert Brody, Lab Assistant

Grants:

2007–2011. Principal Investigator. “Role of Maternal PADI6 in Embryonic Development.” National Institutes of Health. 2R01 HD 38353. \$184,500 yearly direct costs, \$99,500 indirect costs.

2007–2008. Principal Investigator. “Contraceptive Potential of Oocyte-Restricted cPLA2g.” National Institutes of Health. R03 HD052241-01. \$50,000 yearly direct costs, \$27,000 indirect costs.

2007–2011. Principal Investigator. “Epigenetic Analysis of Breast Cancer.” Department of Defense Breast Cancer Research Program Era of Hope Award. BC061977. \$676,318 annual direct/indirect costs.

Susan K. Bliss, DVM, PhD
Senior Research Associate
Laboratory of Immunoparasitology

Research in Dr. Bliss’s laboratory focuses on the basis of immunity to parasites as a model system for studying responses to liver injury, which provokes infiltration of leukocytes that may modify or amplify the damage. The overall goal of Bliss’s studies is to elucidate the impact of leukocyte populations and their mediators on liver injury. Tissue injury and repair are basic components of liver disease regardless of etiology. The balance between cellular repair, regeneration, and fibrosis determines whether patients recover or develop progressive fibrotic changes that may eventually result in cirrhosis and portal hypertension. Refining the cellular and molecular mechanisms that underlie these processes is essential for developing efficacious therapeutic modalities.

Grants:

2005–2008. Principal Investigator. “Induction of hepatic tolerance to parasitic nematodes.” National Institutes of Health. 5 K08 DK067290. Current year direct costs: \$104,254. Total project direct costs: \$312,832.

George Lust, PhD
Professor of Physiological Chemistry
The Albert C. Bostwick Foundation Laboratory:
Canine Hip Dysplasia and Osteoarthritis

Dr. Lust’s laboratory investigates hip dysplasia, a degenerative disease that causes pain and discomfort with movement and eventually results in osteoarthritis. For more information, see pages 14-15.

Team members:

Elizabeth E. Corey, Research Technician
Alma J. Williams, Research Technician

Grants:

2007. Principal Investigator. “A marker for cartilage destruction in Osteoarthritis.” Pfizer Inc. \$110,000.

2004–2007. Co-Principal Investigator. “Mapping refinement of Quantitative Trait Loci for canine hip dysplasia.” Total project direct costs: \$263,824.

Susana Mendez, DVM, PhD
Assistant Professor of Immunology
and Infectious Diseases
Immunology, Vaccines, Protozoa

Dr. Mendez’s laboratory works with animal models of infectious disease, in particular parasitic infections, that are relevant in human and veterinary medicine. For more information, see pages 6-7.

Team members:

Wenhui Wu, Postdoctoral Associate
Meleana Hinchman, Manager/Research Technician
Hussaina Makun, Visiting Fellow
Leah Alabanza, Graduate Student
Justin Nham, Undergraduate Student

Scott A. Coonrod, PhD
Associate Professor
Laboratory of Epigenetics and Reproductive Biology

Dr. Coonrod’s lab is exploring the role that novel, highly-abundant, and egg-restricted molecules play in the reprogramming process. Read more about his work—and its focus on infertility and overpopulation—on pages 2-3.

Team members:

Chris Torre, Lab Manager
Xuesen Zhang, Post-doctoral Associate
Boram Kim, Graduate Student
Rui Kan, Post-doctoral Associate

Jasmine Chiang, Undergraduate Student
Thomas McConville, Undergraduate Student
Mark Scurrah, Undergraduate Student
Diana Magee, Undergraduate Student
Patricia Green, Undergraduate Student

Grants:

2007–2008. Co-Principal Investigator. “Production of recombinant nanobodies for diagnostic and research applications.” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$20,012.

2007–2008. Principal Investigator. “Study of the immunomodulatory effect of the hookworm molecule Ac-TMP in the intestinal mucosa.” Affinito-Stewart Grant Program, President’s Council of Cornell Women. Current year direct costs: \$12,500.

2007–2008. Principal Investigator. “Immunogenicity and protective potential of L. Infantum Kmp-11 antigen using different vaccination strategies in dogs.” MERIAL LTD. Current year direct costs: \$82,617.

2007–2009. Co-Principal Investigator. “Efecto inmunomodulador de dos antígenos recombinantes de Leishmania encapsulados en nanocapsulas de fosfatidilcolina-colesterol (Quil-ISCOM).” CICYT. AGL2007-60123/GAN. Current year direct costs: in negotiation. Total project direct costs: in negotiation.

2004–2007. Principal Investigator. “Role of T reg in live vaccination against Leishmaniasis.” National Institutes of Health. 5 R21 AI061379. Total project direct costs: \$275,000.

Vicki N. Meyers-Wallen, VMD, PhD
Associate Professor of Genetics and Reproduction
Laboratory for the Study of Inherited
Canine Reproductive Diseases

Dr. Meyers-Wallen’s lab studies animal models of inherited human disorders as a means of understanding sex determination and differentiation at the molecular level. By studying systems in which abnormal sexual differentiation occurs, we hope to identify specific genes that are necessary to normal differentiation. Dr. Meyers-Wallen and her team are investigating three disorders of male sexual differentiation: the development of testes in chromosomal females, the development of oviducts and a uterus in otherwise normal males, and the failure of the testes to descend into the scrotum. They also collaborate with other investigators on inherited canine diseases affecting other body organs.

Team members:

Shashikant Pujar, Research Associate

Grants:

2001–2007. Principal Investigator. “Autosomal Mechanisms of Testis Induction.” National Institutes of Health. R01 HD 40351. Total direct costs \$810,000.

2007. Co-Principal Investigator. “Genetics of Cryptorchidism in Dogs.” American Kennel Club, ACORN grant. Total direct costs: \$12,000.

2007–2008. Co-Principal Investigators. “Fine gene mapping and candidate gene sequencing: Small breed dog with Portosystemic Vascular Anomalies (PSVA) and Microvascular Dysplasia (MVD).” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$24,952.

John S. L. Parker, BVMS, PhD
Assistant Professor of Virology
Laboratory for the Study of Feline Caliciviruses
and Orthoreoviruses

Dr. Parker’s laboratory studies potential anti-cancer agents, called reoviruses, that target and kill cancer cells in mice. In addition, his lab explores feline caliciviruses, having isolated and characterized several hypervirulent strains known to cause high morbidity and mortality in infected cats. These viruses are highly contagious and persist in the environment, making them difficult to control. As such, the NIH has identified caliciviruses as potential bioterrorism agents.

Team members:

Caroline M. Coffey, PhD Student
L. Wisniewski, PhD Student
Robert (‘Oz’) J. Ossiboff, DVM/PhD Student
Louis G. Hom, Postdoctoral Associate
Lynne J. Anguish, Research Technician
Susanne Moessmer, PhD Student

Grants:

2005–2009. Principal Investigator. “Reovirus factories: structure, function, and dynamics.” National Institutes of Health. 5R01 AI063036-04. Current year direct costs: \$151,709. Total project direct costs: \$864,208.

2007–2008. Co-Principal Investigator. “Production of recombinant nanobodies for diagnostic and research applications.” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$20,012.

2005–2010. Principal Investigator. “Reovirus-induced apoptosis: the role of the viral outer capsid protein mu1.” Burroughs Wellcome Fund. 1005528. Current year direct costs: \$130,000. Total project direct costs: \$450,000.

2006–2008. Principal Investigator (US). “The vesicular trafficking machinery: a crossroad of virus reproduction, virally induced apoptosis and cellular defense in Reovirus infection.” United States Israel Binational Science Foundation. Current year direct costs: \$9,000 (Cornell portion). Total project direct costs: \$9,000 (Cornell portion).

2007–2008. Principal Investigator. “Interactions between feline calicivirus and its receptor - Feline Junctional Adhesion Molecule-A.” Cornell Feline Health Center. Current year direct costs: \$18,936.

Colin Parrish, PhD
John M. Olin Professor of Virology
Albert C. Bostwick Laboratory of Molecular Biology:
Canine and Feline Parvoviruses

The basic and applied work of the Parrish laboratory is concerned with the study of viral diseases of dogs and cats. Efforts are focused on a detailed analysis of parvoviruses of cats, raccoons, mink, and other carnivores, as well studies to characterize the minute virus of canines. In particular we are interested in how mutations in the viruses allowed them to change their host ranges, and also whether they are altering the antigenic form of the viruses so that vaccines do not work as well.

Faculty Accomplishments 2007

Team members:

Wendy Weichert, Research Technician
Virginia Scarpino, Research Technician
Christian Nelson, Graduate Student
Karin Hoelzer, Graduate Student
Karla Stucker, Graduate Student
Carole Harbison, Graduate Student
Laura Goodman, Postdoctoral Fellow
Eveliina Minkkinen, Visiting Fellow
Sid Khasnavis, Undergraduate Student
Natalie Johnson, Undergraduate Student
Jason Kaelber, Undergraduate Student

Grants:

2008–2013. Principal Investigator. “Parvovirus structure, capsid assembly, and receptors.” National Institutes of Health, NIAID (with Dr. Michael G. Rossmann, Purdue University). Grant 2 R01 AI033486 (competitive renewal of current funding). Pending Renewal: \$250,000 yearly direct costs.

2008–2009. Collaborator. “Bioengineering to optimize monoclonal antibodies for passive immunotherapy.” Northeast Biodefense Center (with A. Moscona, Cornell Weill Medical School, PI; M. Jin, Biomed. Engr., Cornell, Co-PI). Pending \$115,000 total; \$5,000 per year (Parrish laboratory).

2007–2009. Principal Investigator. “Antigenic structure of adeno-associated virus capsids and antibody escape mutants,” National Institutes of Health, NIAID (with Dr. Mavis Agbandje-Mckenna, Univ. of Florida-Gainesville). Grant 1R21 AI072341-01A1. \$175,000 yearly direct costs.

2007–2012. Co-Principal Investigator. “The evolutionary and biological bases of host switching in viruses,” National Institutes of Health, NIAID (with E. Holmes, Penn State University, PI). Grant 1R01GM080533-01. \$74,368 yearly direct costs (Cornell portion).

2007. Principal Investigator. “Engineering virus-receptor interactions to determine their roles in cell infection and disease,” Ithaca-NYC Seed Grant program. \$50,000 total direct costs.

2007–2011. Principal Investigator. “Mechanisms of parvovirus infection and host range.” National Institutes of Health, National Institute of Allergy and Infectious Diseases. Grant R01 AI028385-15A (renewal, funded since 1990). \$200,000 yearly direct costs.

2003–2008. Principal Investigator. “Parvovirus structure, capsid assembly, and receptors.” National Institutes of Health, NIAID. Grant R01 AI033486 (renewal; funded since 1992). \$237,045 yearly direct costs.

2006–2008. Co-Mentor. “Effects of virus-receptor interaction on feline and canine parvoviruses infection.” Morris Animal Foundation, #D06MS-402. \$35,000 yearly direct costs.

2006–2011. Principal Investigator. “Training in molecular virology and pathogenesis.” National Institutes of Health, Institutional National Research Service Award - NIAID, 5T32 AI07618. \$151,820 yearly direct costs.

2007–2008. Co-Principal Investigator. “Production of recombinant nanobodies for diagnostic and research applications.” Collaborative Research in Preclinical and Clinical Sciences Program. Current year direct costs: \$20,012.

Alex Travis, VMD, PhD

Assistant Professor of Reproductive Biology
Laboratory of Reproductive Biology

Dr. Travis's laboratory investigates male reproduction from spermatogonial stem cells to mature sperm. Applications of his work range from nanotechnology to wildlife conservation. For more information, see pages 8-9.

Team members:

Atsushi Asano, Research Associate
Danielle Buttke, DVM/PhD Candidate
Yeun-Hee (Yoni) Kim, PhD Candidate
Jacque Nelson, Research Support Specialist

Grants:

2007–2009. Principal Investigator. “Analyzing the Function of Feline Sperm Produced by Testis Xenografting.” Morris Animal Foundation. D07ZO-097. Current year direct costs: \$49,500. Total project direct costs: \$99,000.

2006–2009. Principal Investigator. “Developing a Participatory Socio-Economic Model For Food Security, Improved Rural Livelihoods, Watershed Management, & Biodiversity Conservation In Southern Africa.” USAID, Sustainable Agriculture and Natural Resource Management Collaborative Research Support Program (SANREM-CRSP) Award. Current year direct costs: \$280,766. Total project direct costs: \$1,083,005.

2003–2008. Principal Investigator. “Organization and Function of Lipid Rafts in Spermatozoa.” National Institutes of Health/National Institute of Child Health and Human Development. R01 HD045664. Direct cost support: \$900,000.

2008–2009. Co-Investigator. New York State Department of Health, NYSTEM Grant for Institutional Development of Stem Cell Research Capabilities. Direct cost support: \$26,730 (\$1,000,000 total).

2006–2007. Principal Investigator. “Scaffolded nanoscale cellular energy production.” CAT Innovations Program (Cornell). Total project direct costs: \$50,000.

Dr. Greg Acland was the invited speaker at the international conference: *Current Evolutionary Thinking In Biology, Medicine And Sociology* organized by the Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences, in commemoration of Professor Dmitry K. Belyaev in Novosibirsk (Academgorodok) Russia. Additionally, Dr. Acland spoke to four kennel clubs including the Fingerlakes Kennel Club, the East Coast Glen Gathering, the American Border Collie Association, and the Australian Cattle Dog Club of America.

Dr. Doug Antczak presented the Colonel John Hickman Memorial Lecture, at the British Equine Veterinary Association in Edinburgh, UK and the Donald C. Johnson Memorial Lecture at the Kansas University Medical Center, Kansas City.

Dr. Judith Appleton was appointed Associate Dean for Academic Affairs in the College of Veterinary Medicine. Dr. Appleton also

serves as a member of the Publications Committee of the American Association of Immunologists.

Dr. Scott Coonrod was an invited speaker at the International Symposium on Cancer Biology, New Delhi, India, and was invited to present a seminar at the National Institute of Environmental Health Sciences, Research Triangle, North Carolina.

Dr. Anna Kukekova was awarded a grant from the National Institutes of Health for studies of the genetic basis of tame behavior in captive Russian foxes.

Dr. Susana Mendez gave an invited presentation at the X Congreso Iberico de Parasitologia, Madrid, Spain, on the topic: *How the immune system in the skin responds to live vaccination against leishmaniasis*. Dr. Mendez also served as an invited lecturer in the *Trends in Biomedicine Summer Course* in Almunecar, Spain.

Dr. Vicki Meyers-Wallen was an invited speaker at the Annual Meeting of the American Veterinary Medical Association in Washington, DC and at the Annual Conference of the Society for Theriogenology (Veterinary Reproduction) in Monterey, California. She spoke on canine reproductive management, identification of abnormal and unusual estrous cycles and elective Cesarean section.

Dr. John Parker was selected as the College of Veterinary Medicine's Pfizer Research Award recipient.

Dr. Colin Parrish was the invited speaker at several international meetings: the Structural Biology of Small DNA Viruses in Siena, Italy; the European Meeting on Parvovirus Research in Bari, Italy; the Ecology and Evolution of Infectious Diseases in Albuquerque, New Mexico; and the Wellcome Trust meeting on *Animal Health Research: Recent Developments and Future Directions* in Cambridge, UK.

Dr. Alex Travis was named the director of the Cornell Center for Wildlife Conservation.

Additionally, **the work of the Travis laboratory** was highlighted in a press release for the scientific poster of postdoctoral associate Chinatsu Mukai Kazama entitled, *Coupled metabolic reaction on a chip: A step toward energy production on implantable medical devices*, at the American Society for Cell Biology meeting in Washington, DC. This was featured by *MSNBC*, the *Discovery Channel*, the *Australian Broadcasting Corporation*, *Journal of the American Medical Association*, *Nanotechnology News*, the *American Association for the Advancement of Science*, the *Syracuse, New York Post-Standard*, and *Discover* magazine.



131st Westminster Kennel Club Dog Show

In February 2007, the Baker Institute hosted Advisory Council members, donors, friends, and dog lovers alike for the judging and finals of the dog show considered by many to be America's most prestigious. More than seventy-five people, including friends from the Morris Animal Foundation (a partner in Baker Institute research), enjoyed the excitement, as we all cheered on to victory the English Springer Spaniel, *Ch. Felicity's Diamond Jim* (a.k.a. James).

Above: Longtime Advisory Council member Mary Kurlansik Sloane enjoying the action in the ring below.

Cornell Alumni Association of the Ithaca Area, and the College of Agriculture and Life Sciences Alumni Association visit the McConville Barn

One of our most enthusiastic audiences came to the Institute from its own backyard. In September 2007, more than eighty local Cornell alumni and family members visited the Institute for a guided tour of the Dorothy Havemeyer McConville Barn, where Dr. Doug Antczak, the Dorothy Havemeyer McConville Professor of Equine Medicine, spoke about his research herd at the Equine Genetics Center. Following the tour, guests enjoyed a talk regarding current research at several Institute laboratories, including Dr. Antczak's own.

Baker Institute Annual Report for 2006 and 2005 Wins CASE Award

In December 2007, the Council for Advancement and Support of Education (CASE) announced the winners of the 2008 District II Accolades Awards. The Baker Institute's Annual Report received the Silver Medal in the category of Annual and Institutional Reports, judged on excellence in concept, graphic design, and editorial content with regard to communicating the Institute's accountability to its constituencies. Judges' comments included "visually striking, emotive images that align perfectly with the Institute's mission in a well-designed piece that effectively balances the interests of animal lovers and the deeper scientific work carried out by the Institute."

The AKC/Eukanuba® National Championship

In December 2007—for the first time—the Institute hosted donors and friends from California at the international, invitation-only AKC/Eukanuba National Championship at the Long Beach Convention Center. The Baker Institute and the Cornell University College of Veterinary Medicine sponsored the Hall of Fame, a photographic essay of previous AKC/Eukanuba National Championship winners.

Guided tours by the staff of the American Kennel Club; daytime breed judging; evening group and finals judging; as well as breakfast and afternoon receptions in our hospitality room made for full days. Great fun was had by all. Guests enjoyed the AKC National Agility Invitational; the National Obedience Invitational; the Eukanuba World Challenge (where the top dogs from forty countries competed in a first-ever challenge); and the AKC/Eukanuba Canine Experience complete with herding demonstrations, flyball, and dancing dogs. Among the highlights was the AKC "Meet the Breeds" event where Institute donors and friends could see every AKC breed up close in a carnival-like setting. Institute guests engaged with experts to learn about the unique histories of the breeds. From the enviable vantage point of VIP floor seats (courtesy of the American Kennel Club and Proctor and Gamble), the Baker Institute contingent witnessed the Sealyham Terrier, Charmin, capturing the coveted title.



Ch. Efbe's Hildago at Goodspice (a.k.a. Charmin) enjoying her win at The AKC/Eukanuba National Championship.

Greenwich Kennel Club All-Breed Dog Show, Obedience, and Rally Trial

In June 2007, Dr. Doug Antczak, Director, and Lynne Williams, Director of Development and Public Affairs, staffed the Baker Institute booth. The team fielded myriad questions concerning research programs, and chatted with donors and friends from the Greenwich, Connecticut area. The American Kennel Club sanctions the show, held at Taylor Farm Park in Norwalk, Connecticut. Institute Advisory Council member Peggy Reed, along with Ellen Frankel, a long-time friend and supporter of the Baker Institute and noted dog show judge, are GKC members.

Cornell Club Lectures in Kansas City and Tulsa

In October 2007, Dr. Doug Antczak, Director, gave spirited talks to enthusiastic audiences in Kansas City, Kansas and Tulsa, Oklahoma. The Institute partnered with the Cornell North Central Regional Office, the Cornell Club of Mid-America, the Cornell Southwest/Mountain Regional Office and the Cornell Club of Oklahoma, respectively, to present Dr. Antczak's lecture: *From the Lab to the Labrador: How Discoveries in Veterinary Medicine Have Improved the Life of your Pet*. Dr. Antczak and Lynne Williams, Director of Development and Public Affairs, thoroughly enjoyed meeting dog, cat and horse lovers at the receptions that followed.

Graduate Students Complete PhDs



Pictured left to right: Linda Hunter, PhD, January 2008; Caroline Coffey, PhD, August 2007; Laura Palermo, PhD, August 2006; Lisa Daley, PhD, May 2007.

Caroline Coffey August 2007

Graduate field: Comparative Biomedical Sciences

Major advisor: Dr. John Parker

Thesis title: *Studies on apoptosis induction by mammalian orthoreovirus outer capsid protein mu 1 and regulation by outer capsid protein assembly and degradation.*

Current position: Visiting Assistant Professor, Department of Biology, Science Center, St. Joseph's University, Philadelphia, PA

Lisa Daley May 2007

Graduate field: Immunology

Major advisor: Dr. Judith Appleton

Thesis title: *The significance of heavy-chain antibodies in camelid immunity.*

Current position: Postdoctoral Research Fellow, Department of Microbiology & Immunology, Emory Vaccine Center, Emory University School of Medicine, Atlanta, GA

Bicknese Family Prize propels parvovirus research

Karin Hoelzer is the 2007 Bicknese Prize winner. As a member of Dr. Colin Parrish's lab, Hoelzer's research centers on understanding the emergence and evolution of canine parvovirus.

Prior to the 1970s, the ancestor of the parvovirus that we now know as canine parvovirus was found only among cats. Today canine parvovirus is found among dogs and relatives of dogs throughout the world, with slightly different forms of the virus appearing in different geographic regions.

Hoelzer used the Bicknese Prize to purchase a new computer, which has empowered her to collaborate more effectively with researchers from the Pennsylvania State University, and to conduct a series of analyses to investigate relationships between viruses.

The Bicknese Family Prize was established in 2005 by Dr. Joanne Bicknese, CALS '76, DVM '78, MS, ELs, as an annual award for research activities of a woman scientist-in-training; to provide support at a critical point in the trainee's academic development; and to help launch her into a successful career.

Dr. Bicknese, one of the Institute's most devoted and generous supporters, is a current member of the Institute's Advisory Council and served six years as chairperson during the Institute's 50th anniversary and the building of the new



wing. The fund honors Dr. Bicknese's parents, Helen and Louis Bicknese, and her aunt and uncle, Grace and Carl Bicknese. Hoelzer was chosen in recognition of her cumulative efforts, excellent Institute citizenship, and exemplary academic performance.

Volunteer and Donor Highlights

Advisory Council member Dr. Peggy Reed dedicated to raising awareness



Hamburger in hems and strategic use of light: Dr. Margaret Reed easily shares some of the trade secrets that are part of her success as an award-winning animal trainer and behavior specialist.

Her passion for animals and their well-being dates back to her childhood when she began showing dogs. But her professional life initially took her to Wall Street, where she was a financial analyst. When the stock market crashed in 1987, she found the silver lining and turned her personal passion for animals into a profession that keeps her mind engaged and her heart full. This duality is also at the root of her enthusiastic interest in the Baker Institute.

“The people and the brain trust constantly amaze me,” says Dr. Reed, whose work has allowed her to partner with some of Hollywood’s most prestigious production houses and meet top-name celebrities in film, television, theater, and politics. “My experience with the Baker Institute has been the most phenomenal of my life.”

In addition to her work with Baker, Dr. Reed is a member of the John F. Kennedy Library Foundation’s President’s Council, and serves her community through several local organizations. In 2005, she was named Person of the Year for her work with search-and-rescue dogs.

Dr. Reed first learned of the Institute at the Westminster Kennel Club Dog Show six years ago when she visited the Institute’s researchers in the hospitality box. Since then, she has committed herself to bringing national visibility to the Institute.

“More people need to know about Baker,” says Dr. Reed, who became a member of the Institute’s advisory board in 2006. “My role is to open doors for the Institute. I am often the bridge to animal-related events and can introduce Doug and the researchers to people who will be just as interested in the life-saving work being done at Baker as I am.”



Taggerty

Remembering Taggerty: Gift of David Behnke and Paul Doherty

“The tragedy of God’s plan is that dogs do not live as long as humans,” says David Behnke. “It’s difficult to lose them.” When Behnke and his partner, Paul Doherty, suddenly lost Taggerty, their Gordon Setter, to cancer, they looked for an opportunity to find some good in the despair that colored the heart-wrenching outcome.

“Our dogs give so completely to us,” says Behnke. “Anything we can do to help them lead long, great lives is important. The Baker Institute, as much as any research institution in the world, is utterly focused on the well-being and improvement of the health of dogs. Their history of vaccine breakthroughs, genetic research accomplishments, and a better understanding of diseases like hip dysplasia, speaks for itself.”

Behnke and Doherty have supported the Baker Institute for more than twenty years, ever since a friend made a gift in memory of their former pet. Behnke explains that their commitment and involvement—Behnke is the vice chair of the Advisory Council—is based on the Institute’s mission, its success, and its leadership.

“A gift to the Institute was the obvious choice when we wanted to memorialize Taggerty’s life and the impact he had on our lives,” says Behnke. To this end, a second-floor meeting room is named for Taggerty. The location, Behnke explained, is significant. Taggerty was the alpha dog in a two-dog pack. Tucker, an eleven-year-old Gordon Setter, is Taggerty’s half-brother, the other member of the pack, and remains the “baby of the family.” A first-floor meeting room, appropriately located below Taggerty’s, is named in honor of Tucker.

When he’s not advocating for the Baker Institute, Behnke runs a private equity firm in Connecticut, after having served twenty-two years as an investment banker in New York. An art advisory business is waiting in the wings, he says, explaining that he first needs to “retire and mean it.”

Doherty is an actor, and has been cast in more than 100 commercials—including most recently for AARP and Southwest Airlines—and television series such as *Law and Order*, *30 Rock* and *The West Wing*.

Glen of Imaal Terrier Club supports Acland Laboratory An eye on the prize: finding the genetic marker

Rosie was a typical Glen of Imaal terrier. She was smart, with a fire in her belly and an adoring passion for “her people.” Unfortunately, she was also typical in one other way: Rosie had progressive retinal atrophy (PRA), a disease that stole her ability to see.

Research currently underway in Dr. Gregory Acland’s lab at Cornell’s Baker Institute for Animal Health is focused on understanding and ultimately preventing PRA, a hereditary condition. Using the canine genome, Dr. Acland is working to identify genes and mutations that lead to a significant number of hereditary eye diseases in dogs. His work will shed new light on the pathology and potential therapies for those disorders, and enable breeders to make informed choices. One of the goals of Dr. Acland’s research is to develop genetic tests that can identify affected dogs, including those who carry the trait before they are bred.

“PRA is devastating to the breed and to their owners,” says Maura High, Health Chairperson for the Glen of Imaal Terrier Club of America.

“Identifying the genetic marker for PRA will change their lives and keep the breed strong.”

To support Dr. Acland’s research, some sixty-three people—Glen club members and friends—have contributed more than \$15,000 since the December holidays. These resources are being put to use immediately, purchasing “chips” that Dr. Acland and his team are using to look for regions of the canine genome involved in inheritance of the form of PRA in Glen of Imaal Terriers.

“I have had three dogs diagnosed with PRA—more than the statistics suggest I should have had,” says High, explaining that Dr. Acland diagnosed Rosie’s condition at a gathering of approximately sixty Glen of Imaal owners several years ago. “I am meant to be where I am doing what I’m doing—monitoring health issues for Glens. I need to see it through to the end.”

For more information on Dr. Acland’s work, visit <http://bakerinstitute.vet.cornell.edu>. To learn about the Glen of Imaal club, visit <http://www.glens.org>.



“PRA is devastating to the breed and to their owners,” says Maura High, Health Chairperson for the Glen of Imaal Terrier Club of America. “Identifying the genetic marker for PRA will change their lives and keep the breed strong.”

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Volunteer and Donor Highlights

Gift of Mary Jane and Robert Engman: Supporting the “unsung heroes”



Mr. Emerson

Bob and Mary Jane Engman’s path to the Baker Institute for Animal Health, they say, is a series of “interesting accidents” that begin with a Boston Terrier whom the Engmans rescued one afternoon while driving through a busy traffic circle. The Engmans opened their car door and the young dog—who was dodging moving traffic—jumped in.

After an exhaustive search for his owners, the Engmans named him Mr. Emerson. The dog became a fixture at their company, Opto 22, even earning employee-of-the-month honors. Eventually, though, he aged and developed heart problems. The Engmans found a specialist, who leveraged science to add several quality years to his life. At the end, Mr. Emerson’s veterinarian, Dr. Keith Richter of the Veterinary Specialty Hospital in San Diego, California, made a memorial contribution to the Baker Institute, and the Engmans were curious to know more about the work done there.

“We believe in the value of research,” say the Engmans. “Those doing it are often the ‘unsung heroes’ of life-changing developments. Science has made the world a better place for everyone, and it’s important to us that science—research and discovery—thrives.”

To this end, the Engmans support the Baker Institute for Animal Health, looking for opportunities to meet specific needs. Their gift of a confocal microscope means that Baker scientists can gather superior data—data that may be the key to improving the quality of life.

The confocal microscope will be utilized to investigate, at a very high magnification, where proteins are found within cells. Also, this tool will help to determine if different proteins associate with each other. Finally, the microscope can be used to determine whether specific protein levels are different between two different samples, such as a normal and diseased tissue. These types of experiments play a key role in understanding protein function at a basic level. Additionally, this enhanced imaging capability will help to clarify how changes in the levels and localization of specific proteins can lead to various disease states in animals.

The Engmans chose to support the purchase of a confocal microscope after speaking with Dr. Doug Antczak, the Institute’s director.

“It is difficult for us to know the greatest needs from afar,” says Bob. “Our conversations with Doug make sure that our gifts are not going into a bureaucratic black hole. More than that, though, Doug’s insights allow us to realize one of our personal goals: to be part of eliminating a little pain in the world.”

“We believe in the value of research,” say the Engmans. “Those doing it are often the ‘unsung heroes’ of life-changing developments. Science has made the world a better place for everyone, and it’s important to us that science—research and discovery—thrives.”

Daversa Family Scholarship Fund: Supporting scientists-in-training



Rayne as a puppy

The resources to uncover an illusive fact: a piece of information with the power to link various other symptoms and point to a critical diagnosis. This is the power of learning, and it is the genesis of the Daversa Family Scholarship Fund. The fund was created to memorialize Rayne (pronounced “ray nee”), a seven year-old German Shepherd who succumbed to a massive stroke in July 2007.

“We couldn’t let her die in vain,” says Maria Daversa. “We were a broken family, and we wanted something good to come of her passing.”

Daversa and her husband, David Gulley, learned of the Baker Institute for Animal Health after receiving a note explaining that Rayne’s vet had made a contribution in her name to the Institute. A voracious learner, Daversa began investigating and found that the Institute’s mission—and specifically Director Doug Antczak’s sensitivity for animals—matched her own sentiments.

After brief discussions, Daversa and Gulley decided to pay tribute to Rayne by creating an endowed scholarship at the Baker Institute to fund the pursuit of knowledge for scientists-in-training. The funds will be used for resources like books and other learning opportunities such as conference registrations and travel.

“Rayne received the best possible care,” says Daversa, explaining that Rayne was being treated for hip dysplasia, arthritis, and colitis through July. “We kept attributing new symptoms to these issues. We had found no information

that suggested her symptoms could be signs of a neurological issue. The scholarship will help researchers bring new information to light—information that will help in the diagnosis and treatment of other family pets.”

As with so many Institute donors, pets are more like family in the Daversa and Gulley household. Rayne was orphaned by her birth mother after just two days, and adopted by Daversa at six weeks. From then on, she was one of the family.

“Rayne wondered why she had fur and not thumbs,” says Daversa. “Her personality was unique. She knew, for instance, that play meant two people interacting. When we threw the ball for her, she never dropped it at our feet. She threw it back.”

Today, Daversa spends her free time playing ball with Delilah, a seven year-old German Shepherd whom she and Gulley adopted from the German Shepard Rescue of New England. Daversa discovered this organization after learning that donations were made in Rayne’s memory.



Rayne as an adult

“We couldn’t let her die in vain,” says Maria Daversa. “We were a broken family, and we wanted something good to come of her passing.”



Honor Roll of Giving

Partners in Progress: Private Support at the Baker Institute in 2007

Since its founding in 1950, the Baker Institute has depended upon donations from veterinarians and private individuals for much of the financial support that has made its practical research programs possible and successful.

The Baker Institute is also privileged to enjoy support from an extensive community of dedicated people who care deeply about animal health issues and the advancement of veterinary medicine. Such gifts are vital to the continued strength of the Institute's companion animal research programs.

The following pages highlight the generous spirit of the many supporters—individuals, veterinarians, kennel clubs, and corporate friends—who have demonstrated their concern for the health and welfare of our animal friends by supporting the work of scientists at the Baker Institute.

This report reflects gifts received from January 1–December 31, 2007. Every effort has been made to ensure the accuracy of the information in the Honor Roll of Giving. Please alert us to any discrepancies or omissions by contacting Laurie Lychalk at 607-256-5604 or lal16@cornell.edu.

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Devereux (in memory of Christina, Margot and Misty) Walter Dewing (in memory of Duke) Mr. and Mrs. Everett Dillon (in memory of Copper) Marie Dion (in memory of Be Be) Marion Dolan (in memory of Chopper) Mr. and Mrs. Edward Donley (in memory of Bonzai and Sharon Siler) Peter Donovan Kathy Dorn (in memory of Hudson) Robert Dowd Doris Downes (in memory of Boo) Marian Downey (in memory of Quinta) Cecilia Downs (in memory of Puffie) Walter Draving (in honor of Dr. Fran Rubin and staff of Rockledge Veterinary Clinic) Clara Dreiss (in memory of Barney) Mr. and Mrs. Jerry Dreskin (in memory of Cubby Bear and Willie) Mr. and Mrs. Duane Dressen (in memory of Zack) Joseph Driskill (in memory of Toby) Wynne Dudley (in memory of Max) Elizabeth Dugan (in memory of Hannah and Clancy) Robert Dumont (in memory of Maisy) Barbara Dunkling (in memory of Ben) Helen Dunn (in memory of Sasha) Lisa Duquette (in memory of Mandi) Jane Dygert (in memory of Raven) Lois Earl (in memory of Colby) Mr. and Mrs. Michael Eastman (in memory of Roscoe) Rose Eastman (in memory of Sparky, Baker and Cinnamon) Cleon Easton Mr. and Mrs. Fred Eckhoff (in memory of Oisin) Mr. and Mrs. Ken Eckstein (in memory of Crystal) Elizabeth Eddy Mr. and Mrs. William Edwards (in memory of Tux)	Mr. and Mrs. Myron Eisner Mr. and Mrs. Robert Eley (in memory of Bear) Suzanne Engel Sandra Enser (in memory of Ciba) Leona Epstein Timothy Eskeli Nunzio Esposito (in memory of Rudy) Mr. and Mrs. Larry Essick (in memory of Macduffy) Audrey Eulner Skip Evans Dorene Evans Patricia Fallon (in memory of Emily) Robert Faulkner (in memory of Stormy) Faye Fayerman (in memory of Lucky, Zelda Dora Fine, Hobbes and Fellini) George Fazan Janet Fein-Schaffer (in memory of Toby) Mr. and Mrs. Lee Feldman (in memory of Cairo) Renee and Nicole Fell (in memory of Bubba) Mr. and Mrs. Gary Fellers Kathleen Felty (in honor of Larry) Marianne Feraca (in memory of Hans II) Dr. and Mrs. Jonathan Ferencz (in memory of Bubba) Pamela Ferguson (in memory of Serena) Jean Ferri (in memory of Cocoa and Black) Patty Ferris (in memory of Miles) Mr. and Mrs. Richard Filipiski (in memory of Porsche) Mary Fine (in memory of Beaukin and Rosey) Linda and Ed Finn (in honor of Veterinary Center of East Northport) Vern Fish Marie Fisher (in memory of Ella) Lori Fisher (in memory of Fred) Mr. and Mrs. William Fitts (in memory of Lily) David Flitner (in memory of Breadie) Barbara Flynn (in memory of Misty) Barbara Fogarty (in memory of all her beloved pets)



James Foley	Susan Garnier (in memory of Butler and Summer)	Elethea Goodkin (in memory of George J. Kuzmickas)	Mr. and Mrs. Donald Hallisey (in memory of Coal)	Skip Hensley (in memory of Rex)	Mr. and Mrs. Don Howe (in memory of Irene Stewart)	Mr. and Mrs. H. Wayne Jones (in memory of Buffe II)	Joan Kingsley (in memory of Rowdy)
Mr. and Mrs. Richard Foley (in memory of Brett Levins)	Mr. and Mrs. Thomas Garrett	Kim Goppert (in memory of Remington)	Mr. and Mrs. Jim Halter (in memory of Buddy and Rebel)	Peggy Henward	Susan Howell (in memory of Beau)	Mr. and Mrs. Duane Jonker-Burke (in memory of Victoria)	Linda Kinney (in memory of Margaret and Sheba)
Kenneth Foley (in memory of Charlie)	Elizabeth Gaughran (in memory of Bailey)	Mr. and Mrs. Ben Graham (in memory of Sadie)	Marion Hamblett (in memory of Hazel E. Fraser, Gilbert R. Strom, Chauncey, Star Gardzina and John Piantedosi, in honor of the marriage of Kathy and Paul)	Mr. and Mrs. Joseph Herbert (in memory of Trixie and Killer)	Ursula Huber (in memory of Mickey)	Janice Jorges (in memory of Bo)	Michael Kintner (in memory of Montana)
Janice Foley (in memory of Mikey)	Steffi Gavin (in memory of Figgy and Shadow)	Mr. and Mrs. Walter Grambow (in memory of Scamper)	Mr. and Mrs. Alan Hammer (in memory of Butch, Amber and Marley)	Mr. and Mrs. Stanley Herman (in memory of Ernie and Jackson)	Denise Hugaboom (in memory of Hunter)	Randi Joselit (in memory of Ali)	Sabrina Kirby (in memory of Bruno)
Shelly Folsom (in memory of George J. Kuzmickas)	Mr. and Mrs. Raymond Gavlak (in memory of Phoebe R. Wolff)	Nancy Granger (in memory of Missy)	Ann Hammes (in memory of Allie)	Roger Herr (in memory of Chasta, Malle and Tre)	Gareth Huggins (in honor of Elizabeth H. Reiser)	William Joslyn (in memory of Brandon)	Peter Kirk
Mr. and Mrs. Joseph Forde (in memory of Keesha)	Wendy Gaynor (in honor of Dr. Munson)	Mr. and Mrs. Robert Grant (in memory of Tebo)	David Hancock (in memory of Emily)	Billie Herring (in memory of Hunter and Belle)	Barbara Hughes (in memory of George J. Kuzmickas)	Margaret Jurmark (in memory of Sarafina, Paco and Vincent Amato)	Mr. and Mrs. Stephen Klafter (in memory of Jasmine)
Maryanne Forish (in memory of Sofi)	Nicole Geesey (in memory of Woody)	A. Jay Grantier	Earl Hannibal (in memory of Sassy)	Mr. and Mrs. Robert Hess (in memory of Tuff-Man)	Robert Hull (in memory of Butch and Daisy)	Randall Kach	Edith Klein (in memory of Logan)
Judith Fortin and Madeline Aldrich (in memory of Opus and Sunshine)	Mr. and Mrs. Stephen Geller (in memory of Onyx)	Jane Grauer (in memory of Ben)	Earl Hannibal (in memory of Sassy)	Pat Hess (in memory of Gunner)	Linda Hulse	Helen Kacocha	Grace Klein (in memory of Junie)
Colonial Boarding Kennels: Paula Fraczek (in memory of Maggie, Sargeant, Yazzie, Susie, Chamois, Emily, Ginger, Maquah, Freckles and Buddy)	Kendra Gemmett (in memory of Casey)	Juli Greco (in memory of Maggie)	Mr. and Mrs. Paul Hans (in memory of Morgan)	Janet Higgins (in memory of Dinky and Gemma)	Mr. and Mrs. A. Leonard Humphreys (in memory of Brandi)	Mr. and Mrs. John Kadlecik (in memory of Zeus)	Doug Klein (in memory of Alex)
Margaret Francolini (in memory of George Kuzmickas)	Mr. and Mrs. Marshall Genger (in memory of Smokey and Sylvester)	Suzanne Green (in memory of Morgan)	Dr. and Mrs. Ganon Harish	Lynn Higgins (in memory of Maggie)	Mr. and Mrs. Daniel Hussin (in memory of Odie and Bronco)	Mr. and Mrs. David Klemenich (in memory of G.T.)	Toni Klemstein (in memory of Buddy)
Mr. and Mrs. Fred Franke (in honor of Dr. Howard Rothstein)	Joyce and Bob Gentile (in memory of Lucky)	Geraldine Greene (in memory of Mari, Annie and Baron)	Mr. and Mrs. Wayne Harju (in memory of George J. Kuzmickas)	Donna Hildebrand (in memory of Clarissa)	Mary Hyde (in memory of Maggie)	Francine Kalafer (in memory of Rocky)	Louise Klier (in memory of Master Derek's Dudley)
Joe Frankenberger (in memory of Patch)	Sydelle Gerber	Clifford Greene (in memory of Missy)	Mary Harmon (in memory of Ginger)	Barbara Damon Hill (in memory of Injun)	Irene Hyer (in memory of Maxie)	Andrew Kalter (in memory of Maggie)	Mr. and Mrs. Scott Kloorfain (in honor of Goosepond Animal Hospital)
Virginia Frasier (in honor of Ridge Animal Hospital)	Mr. and Mrs. Wesley Gerechka (in memory of Joann Canfield)	Christine Gregory (in memory of Max and Justice)	Mary Harnett (in memory of Charlie)	Sue Hinchcliffe (in memory of Max and Jessie)	Barbara Kantrowitz (in memory of Cream Puff)	Eileen Kalter (in memory of Muff)	Dorothy Knauer (in memory of Phoebe R. Wolff)
Alfred Frattni	Mr. and Mrs. Roger Gesele (in memory of Paddington)	Pamela Greig (in memory of Tammy, Patches and Madison)	Gwen and Alyce Harper (in memory of McBear)	Helen Hinchcliffe (in memory of Lucky)	Norman Kantrowitz	Beatrice Kantrowitz (in memory of Casey)	Mr. and Mrs. Jan Kneppshield (in memory of Scooby)
Patricia Frazier (in memory of Abbey)	Alan Geyer (in memory of Shadow)	George Gribble (in memory of Reilly)	Mr. and Mrs. David Harr (in memory of Molly)	Mr. and Mrs. Mark Ingram (in memory of Abby)	Insurance Brokerage Agencies (in memory of Pongo)	Shirley Koplowitz (in memory of Lola)	Mr. and Mrs. Pavel Korchagin (in memory of Right)
Richard Frazier (in memory of Tao)	Michele Giardini (in memory of Julius)	Mr. and Mrs. Philip Griffith	Elizabeth Harrington (in memory of Avi)	Patricia Jacobson (in memory of Emma)	Patricia Jacobson (in memory of Emma)	Mr. and Mrs. Jeffrey Karitis (in memory of Pio)	Cheryl Korneygay (in honor of Barbara Rubin)
Robert Frederick (in memory of Spuds)	Lowrie Gibb	William and Mary Lou Griffith (in memory of Tessie)	Mr. and Mrs. James Harris (in honor of Dr. Carol Carberry and Bollie Dungan)	Susan Jahnke (in memory of Ferguson)	Paula Jandourek	Linda Karl (in memory of Scout)	Ruth Kosiar (in memory of Oliver)
Linda Fredrickson (in memory of Ila)	Richard Gibbins (in memory of Phoebe R. Wolff)	Mr. and Mrs. Glen Grom	Tim Harrison (in memory of Andy)	Paula Jandourek	Susan Jansen (in memory of Max)	Mr. and Mrs. Gerald Kass (in memory of Spunky)	Audrey Kotas
Mr. and Mrs. Norman Freer (in memory of Riley)	Thomas Gibbons and Linda Siple (in memory of Clipper)	Leslie Gross (in memory of Jo Jo and Your Beloved)	Mr. and Mrs. Michael Hartmann (in memory of Bear and Bucky)	Richard Janson (in memory of Spanky)	Richard Janson (in memory of Spanky)	Dorothy Katz (in memory of Reggie)	Susan Kovach
Karen Freilich (in honor of Dottie, Tootsie and Lolli)	Mr. and Mrs. Donald Gibbons (in memory of Ginger)	Mr. and Mrs. Raoul Grossi (in memory of Hagar and Taylor)	Jacquelyn Harvey (in memory of Pele)	Barbara Jaretsky (in memory of Seamus)	Barbara Jaretsky (in memory of Seamus)	William Kay (in memory of Dalwhinnie)	Joseph Kowalski (in memory of Shane)
Eleanor Friedauer	Natalie Gifford (in memory of T.F.)	Susan Grott (in memory of Goodie)	Rita Hasert (in memory of Shadow)	Mr. and Mrs. Richard Jauron (in memory of Niblick)	Patrice Keenaghan	Patrick Kearney (in memory of Jake)	Annabel Kritzalis (in memory of Mischief)
Mr. and Mrs. Gerald Fritsch (in memory of Bear and Bandit)	Carol Gillispie	Deborah Grove (in memory of Jack O'Brien)	Doris Hattin (in memory of Hermes)	Donald Jayson (in memory of Lacey)	Ann Keil (in memory of Tasha)	Patricia Keenaghan	La Verne Krulish (in memory of Casey)
Peggy Fritz	Mr. and Mrs. Patrick Gilmartin (in memory of Casey)	Martin Gruber	Susan Hauser	Irene Jeyowski (in memory of Leo Jeyowski)	Elizabeth Kelerchian (in memory of Willie)	Lois and Wayne Kelley	Mr. and Mrs. John Krzewicki (in memory of Polo)
Richard Frumess (in memory of Chin Chin and K-2)	Stanley Glasser (in memory of Samuel Leonard, PhD)	Jennifer Gruenheid (in memory of Jake and Bootie)	Carole Hawkes (in memory of Rapheal and Winkey)	Mr. and Mrs. Robert Johnson (in memory of Henry)	Lois and Wayne Kelley	Suzanne Kelly (in memory of Sandy)	Grace Kubrich
Melinda Fuller (in memory of No)	Alona Glaz (in memory of Ferris)	Dr. and Mrs. Gordon Grundy (in memory of Casey)	Mr. and Mrs. John Hayes (in memory of Jimmy)	Barbara Kelston (in memory of Molly)	Suzanne Kelly (in memory of Sandy)	Barbara Kelston (in memory of Molly)	Monique Kulling (in memory of Tiki and Kelsey)
Mr. and Mrs. David Furash (in memory of Dancer)	Jean Gluckman (in memory of Bogie)	Billy Guli and Kenn Jones (in memory of Noodles)	Catherine Hazzard	Priscilla Kerbin Price	Sharon Kent (in memory of DJ)	Priscilla Kerbin Price	Mr. and Mrs. William Kunda (in memory of Ting Ting, Shadow and Tug)
Zygmund Furmaniuk (in memory of Jimmy)	Richard Goldberg (in memory of Muggsy)	Jennifer Gummo-Wagner (in memory of Fancy)	Sally Head and Eileen Reedy (in memory of Esther)	Stanley Kern (in memory of Lady)	Joyce Kessel and Leanna Manna (in memory of Paris)	Stanley Kern (in memory of Lady)	Ari and Caren Kurlander (in memory of Jake)
Betty Ann Fusco (in memory of Cocoa)	Rita Golden (in memory of Matey)	Mr. and Mrs. Eric Gunther (in memory of Serge)	Joanne Healey and Catherine Vitale (in memory of Montana)	Joyce Kessel and Leanna Manna (in memory of Paris)	Susan Kessler (in memory of Shadow)	Joyce Kessel and Leanna Manna (in memory of Paris)	Constance La Forgia (in memory of Winnie)
Mr. and Mrs. Richard Fusick	Mr. and Mrs. Harold Goldman (in memory of Pepper, in honor of Suzie Q)	Mr. and Mrs. Michael Gurge (in honor of Dr. Donald DeForge)	Donna Heinrichs (in memory of Duke)	Susan Kessler (in memory of Shadow)	Mr. and Mrs. Martin Kessman (in honor of Winnie)	Susan Kessler (in memory of Shadow)	Lillian Keyes (in memory of Dizzy)
Mona Gagner (in memory of Wesley)	Nancy Goldsmith (in memory of Toby)	Mr. and Mrs. Bob Gurka (in memory of Oakley)	Mr. and Mrs. Kenneth Heins (in memory of Jake)	Mr. and Mrs. Edward Johnson (in memory of Flora and Homer)	Lillian Keyes (in memory of Dizzy)	Mr. and Mrs. Martin Kessman (in honor of Winnie)	Mr. and Mrs. Ronald Kienlen
Alane Gahagan (in memory of Bella)	Mr. and Mrs. Alan Goldstein (in memory of Ginger)	Mr. and Mrs. Eric Gunther (in memory of Serge)	Lucile Helfat (in memory of Homer)	Marion Johnson (in memory of Wings and Poppy)	Mr. and Mrs. Ronald Kienlen	Lillian Keyes (in memory of Dizzy)	Mr. and Mrs. Edward King (in memory of Matthew Pellegrino and William Cozzolino)
Mr. and Mrs. Savino Gaioni (in memory of George Kuzmickas)	Mr. and Mrs. Alan Goldstein (in memory of Ginger)	Mr. and Mrs. Bob Gurka (in memory of Oakley)	Scott Hemenway (in memory of Stuart)	Mr. and Mrs. Ronald Johnson (in memory of Casey)	Mr. and Mrs. Edward King (in memory of Matthew Pellegrino and William Cozzolino)	Mr. and Mrs. Edward King (in memory of Matthew Pellegrino and William Cozzolino)	Lear Lafetra (in memory of Magic)
Tory Gallante (in memory of Chloe and Sophie)	Sonja Goldstein (in memory of Buster)	Mr. and Mrs. Bob Gurka (in memory of Oakley)	Dr. and Mrs. George Hahn (in memory of Sundance and Maggie)	Mr. and Mrs. Edward Johnson (in memory of Flora and Homer)	Janice Jones (in memory of Molly)	Mr. and Mrs. Edward King (in memory of Matthew Pellegrino and William Cozzolino)	Lorraine Laken
Elizabeth Galloway (in memory of Othello)	Mr. and Mrs. Eugene Goldwasser (in honor of Eileen)	Mr. and Mrs. Bob Gurka (in memory of Oakley)	Anna Halatyn (in memory of Angel)	Marion Johnson (in memory of Wings and Poppy)	Susan Jones (in memory of Baloo and Bo)	Mr. and Mrs. Larry King (in memory of Sandy and Malka)	Mr. and Mrs. Raymond LaManque
		Mr. and Mrs. Bob Gurka (in memory of Oakley)	April Henry (in memory of Morris)	Mr. and Mrs. Thomas Jones (in memory of Winston, Precious and Callie)		Mr. and Mrs. P. Henry Lambert III (in memory of Fonz and Ears)	



James Lammey
 Veronica Landin (in honor of Danielle Avellino)
 Mr. and Mrs. Richard Landry (in memory of Dexter)
 Betsy Landsman (in memory of Emma Annie)
 Mr. and Mrs. Charles Laney (in memory of Buster)
 Kathryn Lang (in memory of Jake)
 Carol and Ernie Lantiegne (in memory of Adirondack all that Jazz and Mac)
 Barbara Larson Wille (in memory of Max)
 Joseph Lasher (in memory of Chin Chin)
 Teresa Laskowski (in memory of Maggie)
 Eric Laubmeier
 Susan Lauria (in memory of Jake, Sarge and Kookee)
 Nancy Lauriat (in memory of Rudy)
 Mr. and Mrs. Robert Lauritzen (in memory of Princess)
 Brian Law (in memory of Danny)
 Sally and Rena Lawrence (in memory of Johnath Winston)
 Mr. and Mrs. Milton Leblanc (in memory of Sue Sue)
 Mr. and Mrs. Richard Lechler (in memory of Kitten)
 Carol Lechowicz (in memory of Roxie)
 Robert L. Lee (in memory of Pee Wee and Ruby)
 Cheryl Lee (in memory of Monroe, Summer and Doolin)
 Mr. and Mrs. Joseph Lefebvre (in memory of Lancelot and Tangier)
 Joan Leiby (in memory of Mysti)
 Mr. and Mrs. Clarence Leistman (in memory of Tristen)
 Dr. and Mrs. Richard Lennon (in memory of Charlie)
 Anthony Leo (in memory of Guido)
 Theresa Leone (in memory of Boo, Tippy, and Tippecanoe)
 Renee Lerner (in memory of Clearwater Pete)
 Carolyn Lesseos
 Mr. and Mrs. Marc Lesser (in memory of Cappuccino)
 Mr. and Mrs. Bill Levine (in memory of Nala and Shiloh)
 Mr. and Mrs. Mitchell Levine (in memory of Rugby)

Roberta Levitt (in memory of Sandy)
 Mr. and Mrs. John Levy (in memory of Daphne)
 Mr. and Mrs. Ted Lewinski (in memory of Max and Boomer)
 Rita Lewis (in memory of Patches, Simba, Tasha and Saphie)
 Mr. and Mrs. Bradford Lewis (in memory of Penny)
 Dorothy Lewis (in memory of Scamper)
 Phyllis Licari (in memory of Harley)
 Lawrence Lieberman (in memory of Ginger)
 Mr. and Mrs. Lance Liebhaber
 Jacqueline Linehan (in memory of Mowgli, Niki, Tucker and Burber)
 Virginia Lippa
 Barbara C. Lippe (in memory of Winston and Cody)
 Mr. and Mrs. Howard Lipset (in memory of Marley)
 Normi Lipsit (in memory of Dudley)
 Lori Liss (in honor of Jessie)
 Elise Liss (in memory of Penny)
 James Loesch (in memory of Sadie)
 Marianne Loffredo and Jeff Hass (in memory of Ebb Tide)
 Lone Pine Kennel (in memory of Bear, Cimmy and Clover)
 Josephine Long (in memory of Gene D. Long)
 Mr. and Mrs. Mark Longo (in memory of Katie, Huey, Francis and Barbaro)
 Joseph Lorenz (in memory of Paris)
 Sue Lorio (in memory of Jade)
 Donald Loso (in memory of George Kuzmickas)
 Arthur Lothstein and Dorene Evans (in memory of Dahlia)
 Jo Anne Loughery (in memory of Preston and Norton Swak)
 Benjamin Lowe
 Leslie Lowenthal (in memory of Rhiannon)
 Mr. and Mrs. Timothy Luby (in memory of Zeus, Pepperjack and Spooky)
 Robert Lugg (in memory of Toonsis)
 Mr. and Mrs. Scott Lung (in memory of Gracie)
 Kevin Luss (in memory of Roxi)
 Adrienne Lustig
 Laurie Lychalk (in memory of Libby)
 Patricia Lyman (in memory of Tubby Lee)

Kevin Lynch (in memory of Buffy, Molly and PJ)
 Richard Lyons (in memory of Snickers)
 Mr. and Mrs. John Lyons (in memory of Nikki)
 Elizabeth Lyons (in memory of Diesel)
 Kristi Macaulay (in memory of Samantha)
 Mr. and Mrs. George Mackinnon (in memory of George Kuzmickas)
 Mr. and Mrs. Stephen Maclean (in memory of Dexter)
 Mr. and Mrs. Rod MacNeil (in memory of Phoenix)
 Mr. and Mrs. Eric Madura (in memory of Zoe, Daisy and Muffin)
 Francis Mahodil (in memory of Riley)
 Mr. and Mrs. Henry Majewski (in memory of Pride and Colette)
 Mona Malanga
 Mary Malfitano (in memory of Oreo)
 Lisa Mallardi (in memory of Toby)
 Mr. and Mrs. Thomas Malone (in memory of Sam and Rachael)
 Mr. and Mrs. Paul Maloney (in memory of Jake)
 Mr. and Mrs. Stephen Mandato (in memory of Joshi)
 Gloria Manente (in memory of Thomas C. Manente, Tedie, Gretchen, Heidi A. and Krista)
 Mr. and Mrs. Michael Mangano (in honor of Logan and Wilbur)
 Judy Mangin
 Mr. and Mrs. Robert Mara (in memory of Duke)
 William and Emmanuel Marchak (in memory of Tanner and Norine Egger)
 Mr. and Mrs. Peter Marchand (in honor of Kimberly Marchand)
 Patricia Marchello
 William Marcucio (in memory of Santino)
 Gloria Marder (in memory of Tasha)
 Marilyn Marino (in memory of Aurora)
 Anne Marino
 Mr. and Mrs. George Marotta (in memory of Sydney)
 Mr. and Mrs. Brian Marquis (in memory of Dixie)
 Mr. and Mrs. Paul Marsh (in memory of Laura)
 Mr. and Mrs. Aldo Marsiglia (in memory of Bailey)
 Rita Martin (in memory of Sobe)

Mr. and Mrs. Allen Mastandrea (in memory of Maggie, Hildy and Sandy)
 Mr. and Mrs. Stephen Mastrapasqua (in memory of Thor)
 Mr. and Mrs. James Matala (in memory of Libby)
 Cheryl Matteson (in memory of Pye)
 Gregory Matthei (in memory of Taylor the Yorkie)
 Jack May
 Everette Mayer (in memory of K.C.C.)
 Mr. and Mrs. James Maynard (in memory of Dudley)
 Joan Mazur (in memory of Charlie Kapner)
 Judith Mazurkiewicz (in memory of Bryn)
 Mr. and Mrs. Peter McAnn (in memory of Ginger)
 Marlene McBrier (in memory of Murphy Brown)
 Elizabeth McCarter (in honor of Godspeed Animal Hospital)
 Dr. and Mrs. Richard McCarthy (in memory of Ruby)
 Robert McCarthy (in memory of Scarlet and Perry)
 Elsie McCarty (in memory of Ninja)
 Edith McCormick
 Mr. and Mrs. Dennis McDermott (in memory of Earl W. Wilkinson)
 Mr. and Mrs. William McDevitt (in memory of Cody)
 Linda McGlen (in memory of Tigger)
 The McGowan Family Foundation
 Douglas McGregor (in memory of Biz)
 Ursula McKinney (in memory of Daphne)
 Jane McLane (in memory of Victor Stiff)
 Jennifer McLaughlin (in memory of Joshua)
 Janice McMillen
 Mr. and Mrs. Robert McMullen (in memory of Lucy)
 Jamie McNamara (in memory of Magnum)
 Anne McNellis (in memory of Asti)
 Karen McNulty (in memory of Daisy)
 Michelle McNulty (in memory of Matty)
 John McSweeney (in memory of Buck)
 Denise Mecca (in memory of Megan, in honor of Dr. Rubin)

Ken and Laurie Meisler (in memory of Phoebe)
 Mr. and Mrs. Bruce Meiswinkel (in memory of Mrs. Travaglione)
 Irene Melander (in memory of Raven)
 Marcia Mele (in memory of Midge)
 Mr. and Mrs. Michael Melerski (in memory of Kobe, Pica, Sunny and Max)
 Kurt Melinnis (in memory of Misty)
 Catherine Mellon (in memory of Goldie)
 Marilyn Melman (in memory of Roxanne)
 Mr. and Mrs. Joseph Melone (in memory of Jake)
 Ann Melvin (in memory of Shannon, in honor of Dr. Lester Sills)
 Barbara Mendelson (in honor of Cloe)
 Ricardo Menendez (in memory of Snoopy)
 Martha Meskutovecz
 Mr. and Mrs. Gerald Messuri (in memory of Napal)
 Lisa Metash (in memory of Rex)
 Mr. and Mrs. Robert Meunier (in memory of Mate)
 Mr. and Mrs. Robert Milano (in memory of Daisy)
 Paula Milano (in memory of Dusty)
 Melanie Miles (in memory of Smudger and Buddy)
 Mr. and Mrs. John G. Miller (in memory of Spike and Sarah)
 James Miller (in memory of Lexie)
 Joan Miller and Kathleen Leo (in memory of Mack)
 Sharon Miller (in memory of Honey and Princess)
 Don and Joan Miller (in memory of Polly)
 Sarah Miller (in memory of Solo)
 Kathleen Miller (in memory of Joseph Gama)
 Mr. and Mrs. Stephen Miller (in memory of Lady)
 Suzanne Miller
 Mr. and Mrs. James Milliken (in memory of Chance, Sasha and Bootsie)
 Kathleen Mills (in memory of Rose)
 Michael Milts
 Mr. and Mrs. Paul Minarsky (in memory of Ashley)
 Jane Minger (in memory of Marley)

Ruth Minkus (in memory of George J. Kuzmickas)
 Diana Mogan (in memory of Anna and Yogi)
 Diane Mogavero (in memory of Nicky)
 Leo Mohler (in memory of Gi-Gi)
 Mr. and Mrs. Steven Moldveen (in memory of Socrates)
 Amanda Monahan (in memory of Rascal)
 Barbara Mongelut (in memory of Precious)
 Robyn Monroe (in memory of Pebbles)
 Constance Montesi (in memory of Calvin)
 Mr. and Mrs. Dan Montgomery (in memory of Molly)
 Angela Montgomery (in memory of Pupsly)
 Karen Moor (in honor of Ken and Lisa Koury)
 Jane Moore (in memory of K-C and Caia)
 Mr. and Mrs. Michael Moretti (in memory of Mason and Nikki)
 Margery Morgan (in memory of Tank)
 Thomas Morgan III
 Patrice Morisco (in memory of Buddy)
 Vickie Morizzo (in memory of CJ)
 Stanley Morytko, Jr. (in memory of Laddie)
 Mr. and Mrs. Bob Moses (in memory of Donnae and Casey)
 Dino and Faye Muccia (in memory of Phoebe Wolff)
 Campbell Muir (in memory of Ceilidh)
 Mr. and Mrs. Andrew Mullen (in memory of Robbie, Schard E' Clat and Baggins)
 Mr. and Mrs. Robert Murphy (in memory of Buffy)
 Raymond Murray (in memory of Polly)
 Mary Murray (in memory of Nick)
 Mr. and Mrs. Kirk Murray (in memory of Queenie and Zoe)
 Thomas Muszynski (in memory of Bailey)
 Joanna Nadoolman (in memory of Meko)
 Paul Naintre (in memory of Elvis)
 Ronald Napodano
 Nat Clymer (in memory of Chloe)

Kathleen Nekola (in memory of Cooney)
 Dr. and Mrs. Robert Nelson
 Mr. and Mrs. Gordon Nelson (in memory of George Kuzmickas)
 Gloria Nersesian (in memory of Roxie)
 Kami Netri (in memory of Rex)
 Mr. and Mrs. Harry New (in memory of Harvy)
 New Inn Kennels (in memory of Seamus, Abby and Freckles)
 Julie Newhouse (in memory of Kelly and Tucker)
 Mr. and Mrs. Michael Newler (in memory of Max, Marlowe and Kansas)
 Susan Nicholl (in memory of Bill Hinkel and Auggie)
 Mr. and Mrs. Frank Norkus
 Mr. and Mrs. Edward Norman (in memory of Lacey)
 Mr. and Mrs. Paul Norton (in memory of Amadeus)
 Mitchell Novick (in memory of Frosty and Tawny)
 Mr. and Mrs. Teddy Novin (in memory of Casey)
 Leonard Nowak (in memory of Teddy)
 Herbert O'Brien
 Karen O'Connell
 Timothy O'Connor (in memory of Via)
 Mr. and Mrs. Patrick O'Farrell (in memory of Foster and Rudy)
 Jennifer O'Reilly (in memory of Matilda)
 Christine O'Rourke (in memory of Pepper)
 Mr. and Mrs. Michael Obremski (in memory of Duke)
 Theresa Odekirk (in memory of Jasper)
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Dear donors and friends,

I confess: I'm a confirmed animal lover, and have been since I was a wee thing. In one of the earliest photos of me that I can remember, there I was, hanging on to a Chihuahua that belonged to a relative, and clearly, I was in love with that dog. Fast forward forty-some years and nothing has changed. There are just a few more dogs (and a cat or two) jockeying for the best spot in my lap as we curl up on the sofa.

Since coming to the Baker Institute two years ago, I have fallen in love with this place, too. The devotion of the faculty to their research, the trainees, students and staff who support that research, and the donors who fund the good work being done here, truly make this a dream job.

It has been a real joy meeting and forging friendships with many fellow animal lovers at various events and dogs shows around the country, conversing on the phone, and receiving chatty emails that make my day.

The Institute has strong and loyal donors who care deeply about animal health. Your interest in our work, and support of our endeavors to improve the lives of animals, keeps us energized. For this and more, we are grateful to you. Nothing described in the pages of this report could be done without your help.

Thank you so very much.

Lynne S. Williams
Director of Development
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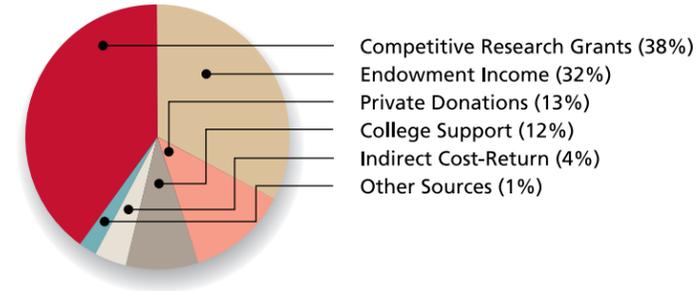
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| Animal Kind Vet Hospital:
Mark C. Gibson, DVM | Clear Lakes Animal Wellness | Georgetown Veterinary Hospital:
Stanley J. Truffini, DVM | Matawan Animal Hospital:
Barry N. Kopp, DVM |
| Animal Medical Clinic:
Patrick Paradis, DVM | Clover Hill Animal Hospital:
Ann Ascher, DVM | German Flatts Vet Clinic:
Nicholas C. Chuff, DVM | Mattapoisset Animal Hospital |
| Animal Medical of New City:
Howard J. Gittelman, DVM | Companion Animal Clinic:
Marilyn J. Thompson, DVM | Glen Animal Hospital | Meadowridge Veterinary Clinic:
Eve C. Brown, DVM |
| Animal Medicine & Surgery of Little Neck:
Edward Parver, DVM | Companion Animal Hospital:
Richard Fagan, DVM | Godspeed Mobile Veterinary:
Pamela N. Dumont, DVM | Medway Animal Hospital:
Michael P. Robinson, DVM |
| Aqueduct Animal Hospital:
Franklin Rapp, DVM | Companion Animal Hospital:
Earl Mummert, DVM and Margaret Mummert, DVM | Goodman Animal Hospital:
William Goodman, DVM | Meker Veterinary Clinic:
Gafur N. Memon, DVM |
| Ardda Animal Hospital:
James P. Kutrybala, DVM | Companion Animal Hospital of Virginia | Goosepond Animal Hospital:
Howard Rothenberg, DVM | Middle River Veterinary Hospital:
Kathryn Dobyns, DVM |
| Arlington Dog & Cat Hospital:
Carmen Scherzo, DVM | James F. Cone, DVM | Goshen Animal Clinic:
Kenneth Ostroff, DVM | Middletown Veterinary Hospital:
Michael Brothers, DVM |
| Arlington South Veterinary Hospital:
Angela S. Milligan, DVM | Corfu-Darien Veterinary Clinic:
Barbara Scheffler, DVM | Greenwich Animal Hospital:
David Kramer, DVM | Milford Animal Hospital:
Richard A. Dubensky, DVM |
| Arrowhead Veterinary Clinic:
John W. Paepflow, DVM | Croton Animal Hospital:
Bruce Hoskins, DVM | Hamilton Animal Hospital | Milford Animal Hospital:
David L. McGee, DVM and
John W. O'Neil, DVM |
| Aspetuck Animal Hospital:
Ferris G. Gorra, DVM | Davis Companion Animal Hospital:
Brad Davis, DVM | Harlingen Veterinary Clinic:
Christine A. Newman, DVM | Miller - Clark Animal Hospital:
John E. Pinckney, DVM |
| Baldwin Animal Hospital:
Neal J. Saslow, DVM | Deer Park Animal Hospital:
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Richard H. Coburn, DVM |
| Bayview Animal Hospital | Eagle Veterinary Clinic:
Maribeth A. Shea-Droese, DVM | Highland Animal Hospital:
Kathryn J. Smith, DVM | Monticello Animal Hospital:
Larry Mauer, DVM |
| Bellerose Animal Hospital:
Andrew Karmin, DVM | East Meadow Animal Hospital:
William J. Thonsen, DVM | Hillsborough Veterinary Hospital:
Charles Schwirck, DVM | Montrose Animal Health Center:
Nolan P. Rubin, DVM |
| Berkeley Dog and Cat Hospital:
Richard N. Benjamin, DVM | Easthampton Animal Hospital:
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| Bolton Veterinary Hospital:
David S. Coley, DVM | Estates Animal Hospital:
Barry Eisenkraft, DVM | Linda Jacobson, DVM | North Country Veterinary Services |
| Briar Patch Vet Hospital:
Carolyn A. McMaster, DVM | | Jeffersonville Animal Hospital:
Richard L. Schwalb, DVM | North Shore Animal Hospital:
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| Briarcliff Manor Animal Hospital:
Jeffrey J. Moyer, DVM | | Katonah Veterinary Group:
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Richard W. Fredericks, DVM |
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Ronald Hirschberg, DVM | | Keating Animal Hospital:
Mary Keating, DVM | North Windham Animal Hospital:
Todd B. Friedland, DVM |
| | | Larchmont Animal Hospital:
Mark Helfat, DVM | |

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Old Brookville Veterinary Practice: Sarah Ehrenson, DVM	Rupert Veterinary Clinic: Jean R. Ceglowski, DVM and Eugene C. Ceglowski, DVM	Star Meadow Animal Clinic	Veterinary Housecall Service of Rochester: Sue Neno, DVM
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Financial Summary 2007

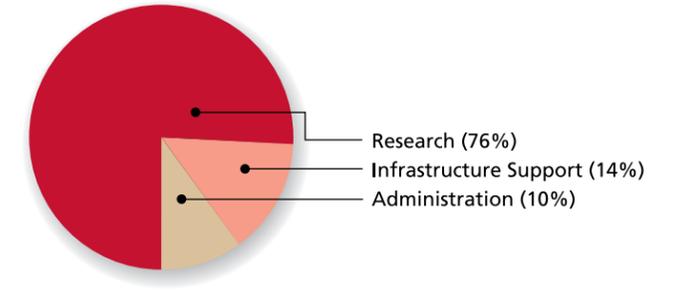
2007 Revenue



Revenue Summary

- Approximately 38% of our income comes from competitive research grants.
- Our endowment continues to grow and is invested in Cornell University's Long-Term Investment Pool.
- College support represents funds from the College of Veterinary Medicine for faculty salaries.
- Private donations are gifts from individuals, veterinary practices, kennel clubs, foundations and corporations.
- Indirect costs represent the non-research expenses associated with conducting research at Cornell.
- Other sources represent miscellaneous income, such as royalties.

2007 Expenses



Expense Summary

- More than 75% of our budget is directed towards our research programs, which allows us to be a leader in both basic and applied research for companion animals.
- Close to 20% of our research budget is used to enhance and complement our research programs funded by competitive research grants.
- We spend less than 25% of our budget on support costs such as building maintenance, utilities, administrative and public affairs staff and programs.

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Richard Henry, DVM

David A. Behnke

Dear friends,

For the past fifty-eight years, the Baker Institute for Animal Health has held fast to a single, unwavering goal: to improve animal health through basic and applied research so that our beloved pets may live longer and healthier lives. It's that simple.

What began as a small cluster of buildings has grown into a research campus atop Ithaca's East Hill, where Institute scientists develop vaccines; study immunological diseases; design tests for genetically inherited disorders; and investigate animal reproduction for the benefit of present and future generations of companion animals.

Each decade of our nearly sixty year history has shown progress and promise. Cornell dedicated its "Research Laboratory for Diseases of Dogs" in 1951. A main laboratory and administration building followed quickly, in 1953. Later years brought the Adele S. Colgate Tissue Culture Laboratory (1960); microbiology wing (1968); and monoclonal antibody laboratory (1979). More recent years have seen the completion of the Albert C. Bostwick Laboratories (1988 and 2003); the establishment of the Center for Canine Genetics and Reproduction (1992); and the opening of new "West Wing" laboratories in 2002.

The expansion of buildings and laboratories under the Baker Institute umbrella affords one measure of the value, relevance, and growth of our collective investment in the mission of the Institute. But far more important are the faculty and students working in those structures, and the ideas that germinate within the laboratory walls. The product of the Institute's work is the practical application of scientific investigation in the form of vaccines, genetic tests and reproductive studies to benefit animal populations.

As early as 1959 and 1960, Baker Institute scientists achieved an unprecedented 98.8 percent success rate with a dual vaccine for canine distemper and hepatitis. Later, in the 1970s, Institute virologists Max Appel and L. E. Carmichael perfected a modified live-virus vaccine for canine parvovirus that is still in use to this day. Genetics, of course, presents a new frontier of medical discovery, and Baker Institute scientists are at the forefront of the exploration. Benchmarks to date include identifying the atomic structure of feline panleukopenia virus; the first ever cloning of horse histocompatibility genes; in vitro gene therapy to correct disease in retinal cells of dogs; as well as the mapping of the horse genome.

Our history is momentous. Our future is vast. As the Institute celebrates its fifty-eighth year, we extend our thanks to all of you who enable this good work.

The product of the Institute's work is the practical application of scientific investigation in the form of vaccines, genetic tests and reproductive studies to benefit animal populations.

Richard Henry, DVM
Advisory Council Chair

David Behnke
Advisory Council Vice Chair

Faculty, Staff and Student Directory

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Michelle Patterson

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Administration



*Aerial view of the Baker
Institute's McConville Barn
adjacent to the botanic
collections of Cornell
Plantations.*

The McConville Barn, an historic University structure dating back to the end of the 19th century, has been the site of many important scientific studies of cattle and horses over the past 100 years. Restored to its early glory in the mid-1980s with generous gifts from Mrs. Dorothy Russell Havemeyer McConville, the Barn has become a welcoming landmark on the eastern edge of the Cornell campus. The Barn is now home to the unique herd of horses used for studies of the immunology of pregnancy and the Horse Genome Project. It is a lasting tribute to Mrs. McConville's foresight and commitment to the Baker Institute's mission of advancing animal health through research.

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