



**Baker Institute  
for Animal Health**

**Annual Report  
2008**

To Improve  
Animal Health  
Through Basic and  
Applied Research





## Table of Contents

4	Research
15	Publications
16	Faculty Accomplishments
17	Laboratory Overview
21	News and Events
24	Volunteer and Donor Highlights
26	Memorial Gift Program
28	Honor Roll of Giving
41	Financial Summary
42	Advisory Council
43	Faculty, Staff and Student Directory



## Director's Message

Dear Friends,

This report marks the end of my third and final five-year term as Baker Institute Director. This tenure has given me the chance to give back to an institution that nurtured me during the early days of my career as a veterinary scientist. It has been a great privilege to serve the Institute, its faculty, staff, and students.

There have been many positive developments over the past fifteen years. We have strengthened the Institute's infrastructure with new construction and renovation of older facilities, and through the acquisition of sophisticated scientific instruments and equipment. This environment has attracted outstanding new faculty members and top-flight students at all levels of training, from talented Cornell undergraduates hoping for a career in veterinary medicine, to advanced post-doctoral scientists ready to make their marks in research. During this period the Institute has continued to make practical advances in animal health and, through its fundamental research programs, to lay the foundation for future breakthroughs in preventive medicine, diagnostics, and treatment of uncontrolled diseases.

The Baker Institute is now on the cusp of the sixtieth anniversary of its founding in 1950. It is a time for celebration, but also for reflection and planning. During the past fifty years the Institute has developed what has been called a "tradition of innovation." The Institute has shown the capacity to evolve, and to meet changing needs in animal health, while maintaining the highest standards of scientific inquiry. Thus, the Institute's initial focus on infectious disease has now been broadened to include genetics, reproduction, and cancer biology.

Driven by high technology, the Institute has been a site for significant innovations in biomedical research, but our direction has been set by a compass that points towards important problems in animal health. As we move into the next phase of the Institute's development, I am confident that the Baker Institute will continue to be one of the world's premier institutions for veterinary medical research.

For more than fifty years, donors to the Baker Institute have helped to keep the Institute on course. My time as Baker Institute Director provided me with the opportunity to get to know a great many wonderful people in the private sector who share a passion for animals and who understand how they enrich our lives. I will treasure those memories.

Thank you for your continued support.



*At the McConville Barn with Twilight, a five-year-old Cornell-bred Thoroughbred, who was selected as the DNA donor for the horse genome sequencing project in 2006.*

D. F. Antczak, VMD, PhD  
Director



## Finding the genes behind blindness and other diseases

Gregory M. Acland, BVSc  
Professor of  
Medical Genetics



Dr. Acland's collaborations with researchers at Cornell and beyond are finding the causes for a variety of genetic diseases. His efforts have even helped to cure a form of blindness in dogs and people.

Already, Dr. Acland and his collaborators have identified the genes for fifteen different diseases and, for many of them, developed tests that breeders can use to tell which animals carry the gene. Because of this work, he says, "several of these diseases no longer exist in the world."

The team uses state-of-the-art technology called association mapping. "We take DNA from a dog and apply it to a chip that's built in much the same way as computer chips are built, except that it sorts DNA into tiny fragments that a computer can read," explains Dr. Acland. "The computer can tell you where the DNA of affected dogs differs significantly from all the non-affected dogs." That difference points to the gene at the root of the disease. From collecting samples to crunching numbers and


analyzing results, partnerships across Cornell and the Baker Institute make this work possible.

Another strategy used to combat blindness: gene therapy, holds promise for people who were born with a genetic disease. Several years ago, Dr. Acland and his collaborators were able to cure a dog named Lancelot of congenital night blindness. Now, with Lancelot still alive and enjoying clear vision, the technique is being used in humans. About a dozen people worldwide have had their sight restored in the same way as Lancelot.

"We are repeating the gene therapy in a larger number of dogs to follow what happens in the long term," says Dr. Acland, both to keep an eye out for possible side effects and to study how the brain learns to process visual information after a lifetime of blindness. Meanwhile, the team is extending gene therapy to other diseases that were once untreatable, including a type of day blindness that affects both dogs and humans.

"We have been choosing diseases that are relatively straightforward to start with, but we are now advancing to address more complicated disorders," says Dr. Acland. Furthermore, Dr. Acland has expressed an interest in studying cancer genes, and the complex question of why animals behave the way they do.

A member of Dr. Acland's lab, Anna Kukekova, began studying animal behavior through the mapping of the genetic pedigrees of tame foxes, looking for differences between these animals and their more aggressive cousins. "Fox behavior is clearly a complex trait," says Dr. Acland. "We know there's not a single gene that causes all the difference between tame and aggressive foxes." Hip dysplasia and mast cell tumors are among the other complex traits that the lab is studying.



## New discoveries from the Horse Genome Project

The horse genome project has come a long way since a mare from Dr. Doug Antczak's herd at Cornell was chosen to be the project's DNA donor. Twilight is a Thoroughbred who carries the genes of several generations of horses bred for studies of pregnancy immunology at the Baker Institute. Her complete genome sequence, decoded at MIT's Broad Institute in 2006 with funds from the US National Institutes of Health, is now freely available in the public domain as a resource for scientists and equine clinicians. This advance in equine genomics provides a wealth of possibilities for improving the health of the horse.

The term "complete genome sequence" is a bit of a misnomer for two main reasons, says Dr. Antczak. First, some parts of the DNA genetic code are more difficult to determine than others. Therefore, even in a complete sequence it is estimated that about fifteen percent of the DNA code remains unknown. Second, because there is variation among horses, as there is for other animals, including humans, Twilight's complete genome sequence does not reflect all of the

DNA variation present in the diverse horse breeds found around the world. Nevertheless, Twilight's 2.7 billion base pair sequence provides a critical standard for assessing genetic variation among horses.

The equine genome sequencing project discovered that there is less variation among breeds of horses than the huge differences other researchers have found among breeds of dogs. "The dog is probably the exception, and the horse is more like other species of mammal," says Dr. Antczak. Another surprising finding is that domestic horses are very closely related to the Przewalski horse, a wild Russian horse that was long considered to be a separate species.


The completed genome project is only the beginning of applications in equine genetic investigation. One of the new tools now available to equine researchers is a Single Nucleotide Polymorphism, or SNP chip. Pronounced "snip chip," this device contains thousands of DNA fragments from the horse genome. Each fragment includes a short DNA sequence that can vary among horses. The

fragments are spaced more or less evenly throughout the equine genome. Testing a horse's DNA with the SNP chip provides a sophisticated profile of the animal's DNA variation that can be compared with the profiles of other horses. By comparing groups of horses, for example, that do or do not suffer from a suspected inherited condition, researchers can use the SNP chip to pinpoint the location in the genome that carries the mutation responsible for the disease. This approach may help to uncover the source of still mysterious genetic diseases.

One such disease is Lavender Foal Syndrome. The fatal condition affects Arabian foals, giving them neurological defects and a characteristic pale color. The disease is rare and poorly understood, but Dr. Antczak and his collaborators believe that with the SNP chip they will find the responsible gene. Identification of the Lavender Foal mutation would enable the development of a diagnostic test. Such tests can be used by horse breeders to select breeding pairs of stallions and mares that will produce foals free of this disease.



Douglas F. Antczak, VMD, PhD  
Dorothy Havemeyer McConville  
Professor of Equine Medicine



Parasitic worms  
offer insights into  
immune function

Although billions of people worldwide suffer from chronic infection with parasitic worms, not enough is understood about how the immune system fights this type of infection. In fact, Dr. Appleton's lab has learned, the immune system doesn't fully fight off the worms, but actually protects them from harm.

This fascinating balancing act between host and parasite has led to important insights about how our immune systems work. In a recent paper, Dr. Appleton and her colleagues show that eosinophils, immune system cells previously thought to attack parasitic worms, actually play a role in keeping the worms alive.

The work was done with *Trichinella* worms in mice. (The same parasite causes trichinosis in humans when ingested in undercooked meat.) The worms enter through the host's intestines and take up residence in muscle cells. The host mounts an immune response, but doesn't kill the worms.

The worms are large—up to a millimeter long—and destroying them could be devastating to the host animal's muscle. "The immune response could get carried away, destroying the host's tissue," Dr. Appleton explains. Instead, by protecting the worm, the host also protects itself.

"The parasite has evolved with the host and is extremely well-adapted. You can think of that as the parasite manipulating the host's immune system, or think of it as the host's immune system having evolved so that it controls itself," she says.

The host's immune system has another way of protecting itself from the worms: as long as *Trichinella* is living in muscle cells, the host animal can eat infected meat without taking on additional parasites. Work in Dr. Appleton's lab also focuses on this form of immunity, which acts within the animal's intestines.

Dr. Appleton says that *Trichinella* is an especially important parasite to study, in part because of the diversity of hosts it infects. Rodents

and pigs are commonly its carriers, but in other climates the parasite infects crocodiles and even polar bears.

Other work in the Appleton lab includes a project to study *Parelaphostrongylus tenuis*, which can infect camelid species such as llamas, and alpacas. Since camelids' antibodies take an unusual form, this work may shed light on exactly how antibodies do their job.

Dr. Appleton's work on immune responses to parasites may one day help to develop a vaccine for parasitic worms, which infect billions of animals and people worldwide.

Her work may also help in understanding allergies. "Allergy in this country now is considered to be epidemic," says Dr. Appleton. "The prevalence of allergy has increased dramatically in the last fifty years, and we need to devise ways to prevent it." The Appleton lab is collaborating with scientists at the Mayo Clinic to study the immune responses that are common to both allergens and parasites.



Judith A. Appleton, PhD  
Alfred H. Caspary  
Professor of Immunology

## Understanding the liver's role in the immune system



Susan K. Bliss,  
DVM, PhD  
Senior Research  
Associate

By studying how the immune system and the liver interact, Dr. Bliss hopes to shed light on diseases that affect the liver, opening the door to future treatments for conditions like hepatitis and even cancer.

Blood flowing from the digestive system filters through the liver before it can reach the rest of the body. Since the blood coming from the gut contains both safe components, like food, and potentially dangerous ones, like parasites, the body needs to learn how to tell which is which.

The liver seems to play an important role in that process of distinguishing dangerous from harmless substances, but exactly how it does so is not yet well understood. Dr. Bliss is working on this problem, saying that “a better appreciation of how the liver functions in immunity is key to understanding diseases

that affect the gastrointestinal tract as well as the liver.”

Dr. Bliss and her colleagues use two parasites, *Trichinella spiralis* and *Toxoplasma gondii*, to probe the immune relationship between the gut and liver. Both parasites establish infection by being eaten, entering the body through the intestinal tract. Both also gain access to the blood and pass through the liver before circulating through the rest of the body. However, each parasite induces a very different type of immune response.

“Using these two pathogens, we can stimulate the immune system and look at the resultant immune responses in the liver,” says Dr. Bliss. The team has begun to unravel some of the complex interactions that are involved.

Recent work has revealed that a signaling molecule, the regulatory cytokine known

as interleukin-10 or IL-10, protects the liver from injury during infection. Specifically, IL-10 controls the behavior of activated white blood cells that migrate between the intestine and the liver. Currently, the Bliss laboratory is trying to understand this process at a molecular level.

Another project involves studying cells that have been influenced by IL-10 and can protect against liver injury. Dr. Bliss hopes to understand how these cells are created and how they act in the body, saying “if we can figure out how these cells protect the liver, we may be able to harness and expand their protective qualities to treat inflammatory diseases of the liver and gut.”



Scott A. Coonrod,  
MS, PhD

Associate Professor  
of Epigenetics and  
Reproductive Biology

## Connecting fertility, development, and cancer



Dr. Coonrod is studying an enzyme family that promises to shed light on aspects of fertility, contraception, and cancer. One member, PADI6, plays an important role in allowing a newly-fertilized egg to develop, while others such as PADI4 may hold keys to understanding the progression of breast cancer in humans and animals.

When egg meets sperm, the egg needs to transition from being part of the mother's body to being a new individual. Dr. Coonrod's lab has found that PADI6 is one of a few identified maternal genes that help the new embryo manage the early stages of development.

"PADI6 seems to kickstart the embryo to make its own proteins, so it can fend for itself," says Dr. Coonrod. Female mice who are missing the PADI6 gene are infertile; their eggs are healthy, but embryos cannot grow past the two-cell stage.

A special property of early embryos is that they are "totipotent"—able to become any type of cell that

the body needs. How do mere sperm and egg DNA gain that ability? "We think a structure called the cytoplasmic lattice is involved in that reprogramming process," says Dr. Coonrod. His lab discovered that PADI6 is necessary to create that lattice. The structure stores cellular components that the embryo needs for its development, and the Coonrod lab's next goal is to investigate the components of the lattice and what role that structure plays as the embryo develops.

Another branch of the PADI family tree includes enzymes that convert positively-charged amino acids to ones that do not have a charge. Electrical charges are critical in determining the shape of a protein.

Dr. Coonrod and his team found out that these PADI enzymes target histones: proteins that provide structural support for DNA. By changing the shape of the histones, the PADI enzymes help to regulate which genes are expressed or "turned on."

The Coonrod lab is now looking at the role this process plays in breast cancer. Several members of the PADI family, particularly PADI4, seem to play important roles in both normal and cancerous breast tissue cells. The Coonrod lab is studying breast cancer in dogs, whose mammary tumors appear similar to humans' in many ways.

PADI enzymes may suppress tumors, and testing for them might allow a doctor to tell how far breast cancer has progressed in a patient. In a related line of research, Dr. Coonrod's team is investigating whether drugs that inactivate PADI enzymes also slow cancer progression and thus eventually may be used to treat breast cancer in both dogs and humans.





George Lust, PhD  
Professor of  
Physiological  
Chemistry

## Diagnosing and preventing hip dysplasia



Hip dysplasia is a common but debilitating disease that can end working dogs' careers and disable active pets. Up to fifty percent of dogs in certain large breeds are affected. Dr. Lust is working on ways to understand and control this disease.

The standard test for hip dysplasia involves an X-ray of the dog's hips, but the test is only accurate for adult dogs, and can only diagnose hip dysplasia once damage has begun. Dr. Lust is working toward a genetic test that can be used early in a dog's life to tell whether the dog will develop the condition as it gets older.

"We want to find a way to diagnose it from a sample of blood or a cheek swab," he explains. Hip dysplasia is likely caused by a combination of genes, and Dr. Lust and his collaborators are on the road to discovering some of the players.

One of those genes is fibrillin-2. That gene is on a region of DNA that the research team found to be associated with hip dysplasia.

Dr. Lust, with co-workers from the College of Veterinary Medicine's Department of Clinical Sciences, investigated the effects of fibrillin-2 mutations in the hip joint capsule, a structure made of connective tissue that surrounds and supports the joint. Fibrillin-2 is involved in the structure of connective tissue, and dogs with hip dysplasia had less of this important protein in their joint capsules.

The researchers are now focusing on the other genes that seem to be associated with hip dysplasia. Their goal is not just to develop tests for the disease, but also to fully understand how hip dysplasia develops, and how various genes and proteins contribute to the problem. This information could help to treat or prevent the disease.

A recent project by Dr. Lust and his colleagues focuses on another, immediate concern: how breeders can avoid passing the condition on to new generations of dogs. Since the genetics of the trait are

complicated and not all dogs are tested, breeding disease-free dogs is not as simple as it sounds.

Dr. Lust and colleagues Dr. Rory Todhunter and Zhiwu Zhang recently performed an analysis using pedigrees to link the test results of thousands of related dogs. "This method integrates the health status of the dog itself, its siblings, its parents, and all of its relatives. A computer program then calculates a breeding value for that dog," explains Dr. Lust. The higher the breeding value, the more likely that dog will not pass hip dysplasia genes on to its offspring.

Using this method, breeders could choose dogs for breeding stock who not only have healthy hips themselves, but whose family connections show that they are likely to have offspring with healthy hips.



## Fighting an emerging disease

Susana Mendez,  
DVM, PhD

Assistant Professor  
of Immunology and  
Infectious Diseases



Once considered a tropical disease, leishmaniasis is an emerging concern in the United States. With some forms of the disease being potentially fatal, and currently without an effective vaccine, the disease threatens dogs and humans in many parts of the world.

Rather than being transmitted directly from animal to animal, some diseases are transmitted by vectors. Often times, vectors are insects and, as part of a worldwide phenomenon, some disease vectors are expanding their ranges. The sandfly, which carries the leishmania parasite, is one of those. "Insects can now live in places where they couldn't live twenty or fifty years ago," says Dr. Mendez. Sandflies have been found as far north as Montana.

Dr. Mendez emphasizes that the human and canine aspects of the disease are related. "An important way to control the human disease is to control the disease in other infected species," she says. Untreated dogs can act as a reservoir for the parasite, putting people at risk.

But a vaccine may be on the horizon. Work in Dr. Mendez's lab, along with collaborators Helene Marquis at Cornell, and Jesus Valenzuela at the National Institutes of Health, takes advantage of the way the disease is transmitted: by a bite from a sandfly.

The new vaccine uses genetically modified bacteria to deliver proteins from sandfly saliva. The vaccinated animal's immune system reacts to the saliva antigens as it attacks the bacteria. Later, if the animal is bitten by an infected sandfly, its immune reaction against the saliva will also eliminate the parasite.

"We still don't know the exact mechanism, but we know that it works," says Dr. Mendez. The team is trying to understand what makes the vaccine so effective, so that one day it might be available for dogs and humans.

Another promising line of research may result in a new treatment for leishmaniasis. Existing treatments need to be given intravenously, and the drugs are expensive

and not always available in the United States. But Dr. Mendez and her collaborators have found that an existing antibiotic, pyrazinamide, may help animals suffering from leishmaniasis.

It can take years to develop a new drug, "but since this drug already exists, we could use it tomorrow. This is really groundbreaking," says Dr. Mendez. Her lab is investigating this new treatment, finding ways to make it more effective. The drug is inexpensive and can be given orally, making treatment easier and more attainable for people worldwide.

The antibiotic, currently used to treat tuberculosis, seems to boost the host's immune system. "This would be very attractive in situations where the host's immune responses are compromised," says Dr. Mendez. "HIV-Leishmania coinfections, for example, are quite common."



## Finding the causes of reproductive disorders

Vicki N. Meyers-Wallen,  
VMD, PhD

Associate Professor of  
Genetics and Reproduction



Dr. Meyers-Wallen's lab has identified a gene responsible for one reproductive disease in dogs and is closing in on another.

The Meyers-Wallen lab recently identified the gene that causes Persistent Mullerian Duct Syndrome (PMDS) in miniature schnauzers. This disease causes a male dog to develop a uterus in addition to his usual anatomy. Some affected dogs develop complications, like tumors or uterine infections, while others appear normal externally but can pass the disorder on to their offspring.

The condition starts when the dog is developing in the womb. Both male and female dogs develop Mullerian ducts, which become the uterus in females, but in males a hormone should cause the ducts to disintegrate.

"We found many years ago that these dogs do make the hormone but the body acts like it never sees it. It's like me calling you on the telephone, but your telephone is broken so you never get the

message," says Dr. Meyers-Wallen. When the canine genome sequence became available, Dr. Meyers-Wallen's team looked at the DNA sequence of the hormone receptor—the receiving telephone, so to speak. They found that affected dogs with PMDS have a mutation in the receptor.

Dr. Meyers-Wallen's team has also come up with a test for the newly identified gene. Since half of males with the disease look normal externally, genetic testing can identify the affected males, as well as male and female carriers. With this knowledge, breeders can avoid passing it on to the next generation.

Understanding the disease in dogs can also help humans who have the disease. Based on the number of affected dogs who appear normal, Dr. Meyers-Wallen suggests that PMDS may be underdiagnosed in humans as well.

Dr. Meyers-Wallen's lab also studies another reproductive problem in dogs, a "sex reversal" condition in which animals that are genetically

female develop male organs. The team has identified a region of DNA that seems to be responsible, and ongoing research in the lab aims to pinpoint the exact gene.

The same genetic tools that enable Dr. Meyers-Wallen to investigate reproductive disorders can help with other genetic diseases as well. Her work with Dr. Sharon Center, in the College of Veterinary Medicine's Department of Clinical Sciences, is advancing the understanding of a potentially fatal liver disease that affects some terrier breeds. In these dogs, blood from the digestive system does not flow correctly to the liver, leaving the dogs unable to properly metabolize drugs and food. A better understanding of the genetic basis of this disease could open the door to tests and treatments.





## Learning what makes viruses tick

John S. L. Parker,  
BVMS, PhD  
Assistant Professor  
of Virology



Dr. Parker is working on a very basic question: How do viruses cause disease? "It sometimes seems like an obvious question, but the answers are not very clear or specific," he says. His work explores how viruses enter and kill cells, and how they spread from cell to cell within an animal.

Part of that work is on a family of viruses called reoviruses. These viruses are able to trigger apoptosis, the cell's own self-destruct program. All animals have this program, since cells often have to die to allow others to grow.

"Viruses take advantage of this process," says Dr. Parker, probably because this form of cell death doesn't stimulate an immune response. The virus is then able to kill cells and spread, without being attacked itself.

Dr. Parker has found that a certain protein in the virus's coat is responsible for triggering the cell to die. New work in Dr. Parker's lab is focusing on other roles of the protein, including the possibility that it helps newly

produced viruses to emerge from a structure known as the "viral factory."

Reoviruses are especially interesting to Dr. Parker because they seek out cancer cells. Since cancer cells usually are difficult to kill, a virus that can cause apoptosis in just those cells may be a promising treatment for cancer.

Best of all, reoviruses cause few disease symptoms and they tend to avoid cells that are not cancerous. While infecting a cancer patient with a virus is still somewhat dangerous, Dr. Parker hopes that research on reoviruses will result in more targeted, safer treatments.

Another branch of Dr. Parker's research focuses on feline calicivirus, which usually causes a mild, flu-like disease in cats. Some strains, though, can be dangerous and lethal.

What makes these forms of the disease so different? Dr. Parker's lab is working on that question. With no way to tell the strains apart, shelters and catteries are stuck

without a way to tell if a sick animal has the more common, mild form, or whether it has the dangerous strain and needs to be quarantined.

Dr. Parker's work may also lead to a more effective vaccine. Although a vaccine for feline calicivirus has been available for forty years, the number of cats with the disease has not changed. This suggests that the vaccine does not guarantee protection. With a newly available map of the virus's structure, researchers are finding possible targets for a new type of vaccine.



Colin Parrish, PhD  
John M. Olin  
Professor of Virology

## Viruses that harm and heal

“Every virus that infects humans or animals induces an antibody response,” explains Dr. Parrish. Those antibodies should protect against later infections by the same virus, but sometimes they do not—as when this season’s flu virus evades the antibodies we made last year.

Dr. Parrish’s team is studying this interaction with two opposite goals in mind: helping dogs’ immune systems to better attack canine parvovirus, and in another project, allowing a helpful virus to sneak past the immune system to deliver cures for genetic diseases.

Canine parvovirus can cause severe diarrhea in adult dogs and heart failure in puppies, while its relative, feline panleukopenia virus, is responsible for a similar disease in cats. A new form of canine parvovirus has arisen in recent years, known as the CPV-2c strain, and some researchers think that the new strain is spreading quickly because it can evade the antibodies that dogs carry against older forms of the disease.

Studying the way these antibodies react and bind to the virus could lead to a more effective vaccine that protects against the new strain, as well as a better understanding of how antibodies work against viruses in general.

“We don’t have a good understanding of what makes a good antibody response,” says Dr. Parrish. “Our lab is trying to understand how antibodies react with viruses on a fundamental level.”

With this knowledge, Dr. Parrish also hopes to achieve an opposite goal: helping a virus to evade the immune system so it can be used for gene therapy.

Gene therapy uses viruses to add a gene to the DNA of an animal or person who is missing that gene or has a defective copy, as in cystic fibrosis or hemophilia. A relative of parvovirus, the adeno-associated virus (AAV), shows promise as a tool for delivery of such genes.

The problem, though, is that if a patient has already been exposed to AAV, its immune system will recognize the

virus and try to destroy it. By studying how antibodies bind to the virus, Dr. Parrish hopes to find a way to keep it safe from the immune system.

Toward that goal, the Parrish lab works with Dr. Mavis Agbandje-McKenna at the University of Florida to look directly at the bond between an antibody and the capsid, or protein shell, of a virus. The technique, cryo-electron microscopy, allows a detailed view of this attachment.

“Our idea is that as we study the structure of AAV and find how it binds to the antibodies, we can use that information to modify the virus,” says Dr. Parrish. “By understanding the antibody response, we can optimize the virus and use it to cure diseases.”



Alexander J. Travis,  
VMD, PhD  
Associate Professor  
of Reproductive  
Biology

## Conserving wildlife by understanding fertility

A common thread in Dr. Travis's work is wildlife conservation. His research on male reproductive biology seeks to have global impacts.

By learning how sperm work, says Dr. Travis, "you can promote fertility with assisted reproductive technologies. Or go the other way and try to develop male-based contraceptives." Both goals could help breeding programs in zoos, and both have implications for humans as well.

In an ambitious project, Dr. Travis and his team have transplanted sperm-producing stem cells from one dog into another. This feat holds promise for genetic research as well as for conservation.

Although male animals don't make sperm until puberty, the stem cells that produce the sperm are present at birth. "You could put cells from an African hunting dog or a red wolf into a domestic dog," says Dr. Travis, preserving the rare animal's genome.

The technique could also provide insight into genetic diseases, some four hundred

of which are shared between dogs and humans.

The Travis lab has also come up with an assay that can test for specific types of male infertility. For decades, fertility testing has focused on descriptive examinations, such as sperm count, but until recently there was no way to test whether the sperm are functionally able to do their job. This new assay exposes the sperm to stimuli they would encounter in the uterus and oviduct. This should trigger a set of changes that the assay can identify. "These changes are absolutely required for the sperm to be able to fertilize," he says. Further research in Dr. Travis's lab is investigating the details of how the activation process works.

Dr. Travis also extends his interest in conservation to Africa, through a multidisciplinary project that will be completed late in 2009. With the Wildlife Conservation Society, he leads a team of scientists from throughout Cornell as they address poaching and slash-and-burn

agriculture in eastern Zambia by helping the poorest families to practice sustainable agriculture. Cornell veterinary students teach families how to take better care of their poultry and goats and have set up poultry vaccination programs, all resulting in healthier animals that improve both the villagers' nutrition and incomes.

"When families don't have enough food, up to forty percent of them poach," says Dr. Travis. The area is home to the world's largest hippopotamus population, as well as other animals like elephants, lions, and antelope. Some of the traps used for poaching antelopes can snare other animals as well, like African hunting dogs. Fortunately, data from the project suggest that the agricultural efforts are working; antelope populations, to name one example, are rebounding.



## 2008 Publications

### Faculty represented in 2008:

**G. Acland, D. Antczak, N. Burton-Wurster (posthumous), L. Carmichael (Emeritus), S. Coonrod, G. Lust, D. McGregor, S. Mendez, V. Meyers-Wallen, J. Parker, C. Parrish, A. Travis.**

### Journal Publications:

- Bennicelli, J., Wright, J.F., Komaromy, A., Jacobs, J.B., Hauck, B., Zelenaia, O., Mingozzi, F., Hui, D., Chung, D., Rex, T.S., Wei, Z., Qu, G., Zhou, S., Zeiss, C., Arruda, V.R., **Acland, G.M.**, Dell'Osso, L.F., High, K.A., Maguire, A.M., and Bennett, J. 2008. Reversal of blindness in animal models of leber congenital amaurosis using optimized AAV2-mediated gene transfer. *Mol. Ther.* 16(3):458-465. PMC 18209734.
- Borillo, J., **Coonrod, S.A.**, Wu, J., Zhou, C., and Lou, Y. 2008. Antibodies to two ZP3 B cell epitopes affect zona pellucida assembly. *J. Reprod. Immunol.* 78(2):149-157. PMC 2519796.
- Bower, M.A., Constant, S.L., and **Mendez, S.** 2008. Necator americanus: the Na-ASP-2 protein secreted by the infective larvae induces neutrophil recruitment in vivo and in vitro. *Exp. Parasitol.* 118(4):569-575.
- Brunner, S., Colman, D., **Travis, A.J.**, Luhmann, U.F.O., Shi, W., Feil, S., Imsand, Nelson, J., C., Grimm, C., Ruelicke, T., Fundele, R., Neidhardt, J., and Berger, W. 2008. Overexpression of RpgR leads to male infertility in mice due to defects in flagellar assembly. *Biol. Reprod.* 79(4):608-617.
- Danthi, P., Coffey, C.M., **Parker, J.S.L.**, Abel, T.W., and Dermody, T.S. 2008. Independent regulation of reovirus membrane penetration and apoptosis by the mu1 phi domain. *PLoS Pathog.* 4(12):e1000248 (14 pp). PMC 2600812.
- De Lorenzi, L., Groppetti, D., Arrighi, S., Pujar, S., Nicoloso, L., Molteni, L., Pecile, A., Cermonesi, F., Parma, P., and **Meyers-Wallen, V.N.** 2008. Mutations in the RSPO1 coding region are not the main cause of canine SRY-negative XX sex reversal in several breeds. *Sexual Dev.* 2(2):84-95.
- de Mestre, A.M., Bacon, S.J., Costa, C.C., Leadbeater, J.C., Noronha, L.E., Stewart, F., and **Antczak, D.F.** 2008. Modeling trophoblast differentiation using equine chorionic girdle vesicles. *Placenta* 29(2):158-169.
- Fraser, D.R., **McGregor, D.D.**, and Gröhn, Y.T. 2008. Career paths of alumni of the Cornell Leadership Program for veterinary students. *Vet. Rec.* 163(25):750-756.
- Greller, A.L., Hoffman, A.R., Liu, C., Ying, G.S., Vudathala, D.K., **Acland, G.M.**, and Komaromy, A.M. 2008. Effects of the topically applied calcium-channel blocker flunarizine on intraocular pressure in clinically normal dogs. *Am. J. Vet. Res.* 69(2):273-278.
- Harbison, C.E., Chiorini, J.A., and **Parrish, C.R.** 2008. The parvovirus capsid odyssey: from the cell surface to the nucleus. *Trends Microbiol.* 16(5):208-214.
- Hoelzer, K., Shackleton, L.A., and **Parrish, C.R.** 2008. Presence and roles of cytosine methylation in DNA viruses of animals. *Nucleic Acids Res.* 36(9):2825-2837. PMC 2396429.
- Hoelzer, K., Shackleton, L.A., **Parrish, C.R.**, and Holmes, E.C. 2008. Phylogenetic analysis reveals the emergence, evolution and dispersal of carnivore parvoviruses. *J. Gen. Virol.* 89(Pt 9):2280-2289. PMC In Process, NIH MS113459.
- Hoelzer, K., Shackleton, L.A., Holmes, E.C., **Parrish, C.R.** 2008. Within-host genetic diversity of endemic and emerging parvoviruses of dogs and cats. *J. Virol.* 82(22):11096-11105. PMC 2573264.
- Kim, Y., Turner, D., Nelson, J.L., Dobrinski, I., McEntee, M., and **Travis, A.J.** 2008. Production of donor-derived sperm after spermatogonial stem cell transplantation in the dog. *Reproduction* 136:823-831. PMC 2706094.
- Komaromy, A.M., Alexander, J.J., Cooper, A.E., Chiodo, V.A., **Acland, G.M.**, Hauswirth, W.W., and Aguirre, G.D. 2008. Targeting gene expression to cones with human cone opsin promoters in recombinant AAV. *Gene Ther.* 15(14):1049-1055. PMC In Process, NIH MS90399.
- Komáromy, A.M., **Acland, G.M.**, and Aguirre, G.D. 2008. Operating in the dark: a night-vision system for surgery in retinas susceptible to light damage. *Arch. Ophthalmol.* 126(5):714-717. PMC In Process, NIH MS90393.
- Kukekova, A.V., Trut, L.N., Chase, K., Shepeleva, D.V., Vladimirova, A.V., Kharlamova, A.V., Oskina, I.N., Stepika, A., Klebanov, S., Erb, H.N., and **Acland, G.M.** 2008. Measurement of segregating behaviors in experimental silver fox pedigrees. *Behav. Genet.* 38(2):185-194. PMC 2374754.
- Manabe, Y.C., Kesavan, A.K., Lopez-Molina, J., Hatem, C.L., Brooks, M., Fujiwara, R., Hochstein, K., Pitt, M.L.M., Tufariello, J., Chan, J., McMurray, D.N., Bishai, W.R., Dannenberg Jr., A.M., and **Mendez, S.** 2008. The aerosol rabbit model of TB latency, reactivation and immune reconstitution inflammatory syndrome. *Tuberculosis* 88(3):187-196.
- Martella, V., Lorusso, E., Decaro, N., Elia, G., Radogna, A., D'Abramo, M., Desario, C., Cavalli, A., Corrente, M., Camero, M., Germinario, C.A., Bányai, K., Di Martino, B., Marsilio, F., **Carmichael, L.E.**, and Buonavoglia, C. 2008. Detection and molecular characterization of a canine norovirus. *Emerg. Infect. Dis.* 14(8):1306-1308. PMC 2600395.
- Marti, E., Gerber, V., Wilson, A.D., Lavoie, J.P., Horohov, D., Cramer, R., Lunn, D.P., **Antczak, D.F.**, Björnsdóttir, S., Björnsdóttir, T.S., Cunningham, F., Dérer, M., Frey, R., Hamza, E., Horin, P., Heimann, M., Kolm-Stark, G., Olafsdóttir, G., Ramery, E., Russell, C., Schaffartzik, A., Svansson, V., Torsteinsdóttir, S., and Wagner, B. 2008. Report of the 3rd Havemeyer workshop on allergic diseases of the horse, Hólar, Iceland, June 2007. *Vet. Immunol. Immunopathol.* 126(3-4):351-361.
- Mateescu, R.G., **Burton-Wurster, N.I.**, Tsai, K., Phavaphutanon, J., Zhang, Z., Murphy, K.E., **Lust, G.**, and Todhunter, R.J. 2008. Identification of quantitative trait loci for osteoarthritis of hip joints in dogs. *Am. J. Vet. Res.* 69(10):1294-1300.
- McPartlin, L.A., Littell, J.S., Mark, E.J., Nelson, J.L., **Travis, A.J.**, and Bedford-Gauas, S.J. 2008. A defined medium supports changes consistent with capacitation in stallion sperm, as evidenced by increases in protein tyrosine phosphorylation and high rates of acrosomal exocytosis. *Theriogenology* 69:639-650.
- Mendez, S.**, D'Samuel, A., Antoine, A.D., Ahn, S., and Hotez, P.J. 2008. Use of the air pouch model to investigate immune responses to a hookworm vaccine containing the Na-ASP-2 protein in rats. *Parasite Immunol.* 30(1):53-56.
- Mendez, S.**, Hatem, C.L., Kesavan, A.K., Lopez-Molina, J., Pitt, M.L.M., Dannenberg Jr., A.M., and Manabe, Y.C. 2008. Susceptibility to tuberculosis: composition of tuberculous granulomas in Thorbecke and outbred New Zealand White rabbits. *Vet. Immunol. Immunopathol.* 122(1-2):167-174.
- Nelson, C.D.S., Minkinen, E., Bergkvist, M., Hoelzer, K., Fisher, M., Bothner, B.P., and **Parrish, C.R.** 2008. Detecting small changes and additional peptides in the canine parvovirus capsid structure. *J. Virol.* 82(21):10397-10407. PMC 2573191.
- Paez, G.L., Zangerl, B., Sellers, K., **Acland, G.M.**, and Aguirre, G.D. 2008. Characterization of gene expression profiles of normal canine retina and brain using a retinal cDNA microarray. *Adv. Exp. Med. Biol.* 613:179-184.
- Parrish, C.R.**, Holmes, E.C., Moens, D., Park, E.-C., Burke, D., Calisher, C., Saif, L., and Daszak, P. 2008. Cross-species transmission and the emergence of new epidemic diseases. *Microbiol. Mol. Biol. Rev.* 72(3):457-470. PMC 2546865.
- Pesavento, P.A., Chang, K.-O., and **Parker, J.S.L.** 2008. Molecular virology of feline calicivirus. *Vet. Clin. Small Anim.* 38(4):775-786.
- Rosas, C., Van de Walle, G.R., Metzger, S.M., Hoelzer, K., Dubovi, E.J., Sung, K., **Parrish, C.R.**, and Osterrieder, N. 2008. Evaluation of a vectored equine herpesvirus type 1 (EHV-1) vaccine expressing H3 haemagglutinin in the protection of dogs against canine influenza. *Vaccine* 26(19):2335-2343. PMC 2430215.
- Simpson, I.A., Dwyer, D., Malide, D., Moley, K.H., **Travis, A.**, and Vannucci, S.J. 2008. The facilitative glucose transporter GLUT3: 20 years of distinction. *Am. J. Physiol. Endocrinol. Metab.* 295(2):E242-253. PMC 2519757.
- Steinetz, B.G., Williams, A.J., **Lust, G.**, Schwabe, C., Bülesbach, E.E., and Goldsmith, L.T. 2008. Transmission of relaxin and estrogens to suckling pups via milk and possible association with hip joint laxity. *Am. J. Vet. Res.* 69(1):59-67.
- Van Duyn, R., Cardenas, J., Easley, R., Wu, W., Kehn-Hall, K., Klase, Z., **Mendez, S.**, Zeng, C., Chen, H., Saifuddin, M., and Kashanchi, F. 2008. Effect of transcription peptide inhibitors on HIV-1 replication. *Virology* 376(2):308-322.
- Wagner, B., Hillegas, J.M., Brinker, D.R., Horohov, D.W., and **Antczak, D.F.** 2008. Characterization of monoclonal antibodies to equine interleukin-10 and detection of T regulatory 1 cells in horses. *Vet. Immunol. Immunopathol.* 122(1-2):57-64.
- Yurttas, P., Vitale, A.M., Fitzhenry, R.J., Cohen-Gould, L., Wu, W., Gossen, J.A., and **Coonrod, S.A.** 2008. Role for PAD16 on the cytoplasmic lattices in ribosomal storage in oocytes and translational control in the early mouse embryo. *Development* 135(15):2627-2636. PMC 2708103.
- Zhu, L., Zhang, Z., Feng, F., Schweitzer, P., Phavaphutanon, J., Vernier-Singer, M., Corey, E., Friedenberg, S., Mateescu, R.G., Williams, A., **Lust, G.**, **Acland, G.**, and Todhunter, R.J. 2008. Single nucleotide polymorphisms refine QTL intervals for hip joint laxity in dogs. *Anim. Genet.* 39(2):141-146.

### Book Chapters:

Hoelzer, K. and **Parrish C.R.** 2008. Evolution and variation of the parvoviruses. Chapt. 17. In: *Origin and Evolution of Viruses*, 2nd Edn. (Eds. Domingo, E., Holland, J., Parrish, C.R.), Elsevier, pp 393-416.

**Meyers-Wallen, V.N.** 2008. Inherited disorders of the reproductive tract in dogs and cats. Chapt. 224. In: *Kirk's Current Veterinary Practice XIV*. (Eds. Bonagura, J.D., Twedt, D.C.), Saunders:Philadelphia, pp. 1034-1040.

## Faculty Accomplishments 2008

**Dr. Greg Acland** was an invited speaker at The Glaucoma Foundation's Fifteenth Annual Think Tank, New York City, and offered a talk on *Genetic Testing* at the Mars Veterinary AVMA Dinner, New Orleans, Louisiana.

**Dr. Doug Antczak** was appointed to the Scientific Advisory Board for the new Centre for Trophoblast Research, Cambridge University, United Kingdom. Additionally, Dr. Antczak was invited to lecture on his research on equine interspecies hybrids to the faculty of Veterinary Medicine at the University of Tokyo. With Professor Twink Allen of Cambridge University, Dr. Antczak made invited presentations on progress in horse breeding to the New Zealand Thoroughbred Breeders' Association and the New Zealand Equine Veterinary Association. While in New Zealand, Dr. Antczak also delivered a lecture at Massey University.

**Dr. Judy Appleton** was an invited participant at the Alpaca Genome Conference in Scottsdale, Arizona. Dr. Appleton also spoke at the École nationale vétérinaire d'Alfort in Maisons-Alfort, France where she presented her work on *Immune regulation during chronic trichinellosis*. At the College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, Illinois, Dr. Appleton lectured on *The role of eosinophils in chronic nematode infection*.

**Dr. Scott Coonrod**, Associate Professor, received tenure in the College of Veterinary Medicine's Department of Biomedical Sciences.

**Dr. Susana Mendez** was invited to present a seminar at the SUNY Upstate Medical Center in Syracuse, New York on *The human leishmaniasis: truth and myths about this complex group of diseases*, and at the Instituto de Salud Carlos III in Madrid,

Spain on *Leishmania and nematodes: immunoparasitology studies at Cornell University*.

**Dr. Vicki Meyers-Wallen** was selected to receive the Senior Investigator Award for Excellence in Basic Research from the European Veterinary Society for Small Animal Reproduction.

**Dr. John Parker** was an invited speaker at Colgate University, the University of Tel Aviv, and the Veterinary Virology Symposium at the American Society for Virology Annual Meeting in Vancouver, Canada. Dr. Parker, in collaboration with Dr. Marcelo Ehrlich at the University of Tel Aviv, was awarded a grant from the US-Israeli Binational Agricultural Research Development Fund.

**Dr. Colin Parrish** was invited to speak at the Keystone Meeting on *Molecular Evolution as a Driving Force in Infectious Diseases* in Breckenridge,

Colorado; at the FASEB Summer Research Conference, *Virus structure and assembly*, in Saxton's River, Vermont; and at the Predictive Evolution and Epidemiology meeting at the University of Texas, Austin, Texas.

Additionally, Dr. Parrish was the invited speaker at several international meetings: the Twelfth International Parvovirus Workshop, Cordoba, Spain where he also served as session Chair; the International Congress of Virology, Istanbul, Turkey where he gave the keynote address and chaired the Parvovirus session; the Department of Microbiology at The University of Otago, Dunedin, New Zealand; and the Veterinary School at Cambridge University, Cambridge, United Kingdom.

Dr. Parrish and staff organized the American Society for Virology annual meeting at Cornell University.

**Dr. Alex Travis** was the featured presenter at the sixth International Symposium on Canine and Feline Reproduction in Vienna, Austria. Dr. Travis also spoke at Cornell University's Center for Wildlife Conservation symposium and Biomedical Sciences seminar series; the University of Pennsylvania's Center for Research on Reproduction and Women's Health seminar series; two presentations at the SANREM-CRSP Annual Meeting in the Philippines; and at Université Laval Centre de recherche en biologie de la reproduction seminar series in Quebec City, Canada.

Additionally, Dr. Alex Travis received promotion to Associate Professor with indefinite tenure in the College of Veterinary Medicine's Department of Biomedical Sciences.

## Research Laboratories

---

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

### Team members:

Anna V. Kukekova, Research Associate  
Orly Goldstein, Research Support Specialist  
Jennifer L. Johnson, Research Support Specialist  
Julie Jordan, Research Technician  
Susan E. Pearce-Kelling, part-time Research Support Specialist  
Svetlana V. Temnykh, part-time Research Scientist  
Lucie Chevallier, Veterinary Student, Summer 2008 Leadership Program

### Grants:

**2004–2009. Principal Investigator.** “Models of hereditary retinal degeneration.” National Institutes of Health. 5 R01 EY06855. Current year direct costs: \$475,844. Total project direct costs: \$2,368,271.

**2007–2011. Co-Principal Investigator.** “Molecular mechanisms of social behavior” (with A. Kukekova, PI). National Institutes of Health. 5 R01 MH077811. Current year direct costs: \$228,600. Total project direct costs: \$914,400.

**2008–2012. Principal Investigator.** “Tools for genetic and genomic studies in the dog.” National Institutes of Health. 1 R24GM082910. Current year direct costs: \$225,000. Total project direct costs: \$890,399.

**2004–2009. Principal Investigator.** “Pre-Clinical Medical Therapy Evaluation Center (Cornell Module).” Foundation Fighting Blindness. C-NY01-0404-0247. Current year direct costs: \$256,962. 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.” (Acland project). Funding awarded to both OptiGen LLC and Dr. G. Acland. NYS Metropolitan Development Assoc./Optigen LLC. Current year direct costs: \$16,028 (Cornell). Total project direct costs: \$43,632 (Cornell).

---

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

### Team members:

Leela Noronha, Post-DVM PhD Candidate  
Christina Costa, Research Technician  
Donald C. Miller, Research Support Specialist  
Jennifer Cassano, Undergraduate Student  
Joy Tseng, Undergraduate Student  
Melissa Restifo, Undergraduate Student  
Cara McNamee, Summer 2008 Havemeyer Fellow  
Kari Walsh, Summer 2008 Havemeyer Fellow

### Grants:

**2005–2010. Principal Investigator.** Split immunological tolerance to trophoblast.” National Institutes of Health. 5 R01 HD049545. Current year direct costs: \$162,032. Total project direct costs: \$834,055.

**2005–2008. Principal Investigator (subcontract).** “Horse Genomics: Linear mapping and microarray development” (with E. Bailey, University of Kentucky, Project PI). University of Kentucky/Morris Animal Foundation. Subcontract #304696620-06-296. Current year direct costs: \$8,333 (Cornell). Total project direct costs: \$24,999 (Cornell).

**2008–2011. Noronha (Fellow); Antczak (Mentor).** “Characterization of T lymphocyte modulation in pregnancy.” National Institutes of Health, NRSA 1 F32 HD055794. Current year direct costs: \$71,366. Total project direct costs: \$209,636.

### Foundation Support to Dr. Antczak

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

**1980–ongoing. Principal Investigator.** “Equine Histocompatibility Antigens.” Dorothy Russell Havemeyer Foundation. \$40,000/year.

**1986–ongoing. Principal Investigator.** “Summer Fellowship Program for Veterinary Students.” Dorothy Russell Havemeyer Foundation. \$11,000/year.

---

**Judith A. Appleton, PhD**  
Alfred H. Caspary Professor of Immunology  
Laboratory of Mucosal Immunity, Nematodes and Immunoparasitology

### Team members:

Maria Valeria Fabre, Postdoctoral Associate  
Andrew Moorhead, Postdoctoral Associate  
Lisa K. Blum, PhD Candidate  
Nebiat Gebreselassie, PhD Candidate  
Lucille F. Gagliardo, Research Technician  
Shirley Cheng, Undergraduate Student  
Lucas Dawson, Undergraduate Student  
Rama El Yafawi, Undergraduate Student  
Kate Justus, Undergraduate Student  
Christopher Orapello, Undergraduate Student  
Michelle Patterson, Undergraduate Student  
Pathamet Khositharattanakool, Visiting Graduate Student

### Grants:

**2004–2010. Principal Investigator.** “Immunity to parasitic infection.” National Institutes of Health. 5 R01-AI014490. Current year direct costs: \$209,288. Total project direct costs: \$1,092,342.

**2006–2008. Co-Investigator.** “Immune Modulation by Intestinal Cell Differentiation” (with G. Wu, University of Pennsylvania, PI). National Institutes of Health. R01 AI39368. Current year direct costs: \$10,191 (Cornell). Total project direct costs: \$20,085 (Cornell).

**2008–2009. Principal Investigator.** “Intrabodies as novel neurological therapeutics.” National Institutes of Health, Wadsworth Center. #3546-01. Current year and total project direct costs: \$26,995.

**2008–2009. Principal Investigator.** “Vaccination against infection with *Parelaphostrongylus tenuis*.” University of Massachusetts. Current year and total project direct costs: \$6,390.

**2007–2008. Principal Investigator.** “Production of recombinant nanobodies for diagnostic and research applications” (with Drs. Mendez, Parker, Parrish, Co-Investigators). Collaborative Research in Preclinical and Clinical



Sciences Program, Cornell University. Current year and total project direct costs: \$20,012.

**2008. Principal Investigator.** "Biosensor based on electrochemical/gravimetric detection of intrinsic antibody catalysis." Cornell Nanobiotechnology Center. Current year and total project direct costs: \$25,787.

---

**Susan K. Bliss, DVM, PhD**

Senior Research Associate  
Laboratory of Immunoparasitology

**Team members:**

Diana Douglas (nee Brunzman), Research Technician  
Elsa Garcia, Veterinary Student, Summer 2008  
Leadership Program

**Grant:**

**2005 – 2008. Principal Investigator.** "Induction of hepatic tolerance to parasitic nematodes" (J. Appleton, Mentor/Co-Investigator). National Institutes of Health. 5 K08 DK067290. Current year direct costs: \$104,254. Total project direct costs: \$312,832.

---

**Scott A. Coonrod, PhD**

Associate Professor of Epigenetics and  
Reproductive Biology  
Laboratory of Epigenetics and  
Reproductive Biology

**Team members:**

Rui Kan, Research Associate  
Brian Cherrington, Postdoctoral Associate  
Eric Morency, Postdoctoral Fellow  
Xuesen Zhang, Postdoctoral Associate  
Boram Kim, PhD Candidate  
John L. McElwee, PhD Candidate  
Lynne J. Anguish, Research Support Specialist  
Ashley Palmer, Research Technician

Christopher J. Torre, Research Technician  
Robert Brody, Undergraduate Student  
Riaz Karmali, Undergraduate Student  
Emily van den Blink, Undergraduate Student  
Piraye Yurttus, Visiting PhD Candidate, Weill Medical  
Hannes Bergmann, Veterinary Student, Summer 2008  
Leadership Program  
Jennell Bigrigg, Veterinary Student, Summer 2008  
Leadership Program

**Grants:**

**2007 – 2012. Principal Investigator.** "Role of maternal PAD16 in embryonic development." National Institutes of Health. 5 R01 HD 38353. Current year direct costs: \$180,810. Total project direct costs: \$811,810.

**2007 – 2009. Principal Investigator.** "Contraceptive potential of oocyte-restricted cPLA2g." National Institutes of Health. 5 R03 HD052241. Current year direct costs: \$49,000. Total project direct costs: \$52,602.

**2007 – 2012. Principal Investigator.** "Epigenetic analysis of breast cancer." Department of the Army. W81XWH-07-1-0372. Current year direct costs: \$402,570. Total project direct costs: \$2,012,850.

---

**George Lust, PhD**

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

**Grant:**

**2008 – 2010. Co-Investigator.** "Fibrillin 2 and developmental genetics of hip dysplasia in a canine model" (with R. Todhunter, PI). National Institutes of Health. 1 R21AR055228. Percent effort only.

---

**Douglas McGregor, PhD**

Director of Leadership and Training Initiatives  
Leadership and Training Initiatives

**Team members:**

Adriana Blossom, part-time Administrative Assistant  
Christina Bainbridge, part-time Administrative Assistant  
Cynthia Kwong, part-time Administrative Assistant  
Jessica Mooney, part-time Administrative Assistant  
Melissa Restifo, part-time Administrative Assistant

**Grants:**

**2007 – 2012. Principal Investigator.** "Short-term training program for students in health professions." National Institutes of Health. 2 T35 AI07227. Current year direct costs: \$67,633. Total project direct costs: \$338,165.

**2005 – 2010. Principal Investigator.** "Graduate training program in comparative medicine." National Institutes of Health. 5 T32 RR07059. Current year direct costs: \$410,568. Total project direct costs: \$1,670,404.

**Foundation/Corporate Support to Dr. McGregor**

**Ongoing. Principal Investigator.** "Leadership Program for Veterinary Students." Albert C. Bostwick Foundation. \$50,000/year.

**Ongoing. Principal Investigator.** "Leadership Program for Veterinary Students." Pfizer Inc. Current Year: \$41,600.

---

**Susana Mendez, DVM, PhD**

Assistant Professor of Immunology and  
Infectious Diseases

Laboratory of Immunology of Animal Models of  
Infectious Diseases

**Team members:**

Wenhui Wu, Postdoctoral Associate

Lu Huang, PhD Candidate

Meleana Hinchman, part time Lab Manager

David Byun, Undergraduate Student

Jasmine Chiang, Undergraduate Student

Patricia Green, Undergraduate Student

Diana Magee, Undergraduate Student

Thomas McConville, Undergraduate Student

Byung Joo (Justin) Nahm, Undergraduate Student

Mark Scurrah, Undergraduate Student

Hussaina J. Makun, Visiting Fulbright Scholar

José Maria Alunda, Visiting Scientist

Jennifer Irving, Veterinary Student,  
Summer 2008 Leadership Program

**Grants:**

**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 and total project 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 and total project direct costs: \$82,617.

**2007–2009. Co-Principal Investigator.** "Immunomodulatory effect of two Leishmania recombinant antigens encapsulated in nanocapsules of phosphatidylcholine-cholesterol (Quil-ISCAM)." (with Dr. A. Osuna, Univ. Grenada, Spain). Center for Technologic and Scientific Research (CICYT), AGL2007-60123/GAN. Total project direct costs: \$16,422 USD (Mendez).

---

**Vicki Meyers-Wallen, VMD, PhD**

Associate Professor of Genetics and Reproduction  
Laboratory for the Study of Inherited Canine  
Reproductive Diseases

**Team member:**

Shashikant Pujar, Research Associate

**Grants:**

**2008–2009. Principal Investigator.** "Candidate gene expression: Validation of directly sequenced canine cDNA library database and in silico screening." (with G. Acland, Co-Investigator). Cornell Collaborative Research Program. Current year and total project direct costs: \$25,000.

**2008–2010. Co-Investigator.** "Genotyping Small Breed Dogs with Portosystemic Vascular Anomalies and Microvascular Dysplasia" (with S. Center, PI, Dept. of Clinical Sci., Cornell). American Kennel Club Canine Health Foundation. #963. Current year direct costs: \$26,296 (VMW). Total project direct costs: \$52,591 (VMW).

---

**John S. L. Parker, BVMS, PhD**

Assistant Professor of Virology  
Laboratory of Virology: Feline Caliciviruses  
and Mammalian Orthoreoviruses

**Team members:**

Louis G. Hom, Postdoctoral Associate

Jae-Won Kim, Postdoctoral Associate

Susanne Moessmer, PhD Candidate

Robert J. Ossiboff, DVM/PhD Candidate

Meagan L. Wisniewski, PhD Candidate

Brenda Werner, Research Support Specialist

Sally Iverson, Veterinary Student

Anne Poujol, Foreign Veterinary Student Externship

Jegath Athilingham, Undergraduate Student

Stephen Berds, Undergraduate Student

Sharilyn Brandel, Undergraduate Student

Meg Crapster-Pregont, (Hughes Scholar,  
Undergraduate Student)

Patrick Lightfoot, Undergraduate Student

Sarah Mattmiller, (McNair Scholar,

Undergraduate Student)

Rachel Mays, Undergraduate Student

Anna Heymer, Veterinary Student, Summer 2008  
Leadership Program

**Grants:**

**2005–2009. Principal Investigator.** "Reovirus factories: structure, function, and dynamics." National Institutes of Health. 5 R01 AI063036. Current year direct costs: \$186,033. Total project direct costs: \$857,002.

**2005–2010. Principal Investigator.** "Reovirus-induced apoptosis: the role of the viral outer capsid protein mu1." Burroughs Wellcome Fund. #1005528. Current year direct costs: \$80,000. 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" (with Dr. M. Ehrlich, University of Tel Aviv, PI). United States Israel Binational Science Foundation. #2005283. Current year direct costs: \$3,000 (Cornell). Total project direct costs: \$9,000 (Cornell).

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

**2008–2009. Principal Investigator.** "Are differences in feline calicivirus (FCV) tissue tropism and virulence determined by changes in virus interactions with cell surface glycans?" Winn Feline Foundation-Miller Trust. Current year and total project direct costs: \$15,750.

---

**Colin R. Parrish, PhD**

John M. Olin Professor of Virology

Albert C. Bostwick Laboratory of Molecular  
Biology: Canine and Feline Parvoviruses

**Team members:**

Sang-Bom (Michael) Lyi, Research Associate

Laura B. Goodman, Postdoctoral Associate

Carole E. Harbison, DVM/PhD Candidate

Karin Hoelzer, Post-DVM/PhD Candidate

Christian Nelson, PhD Candidate

Karla M. Stucker, DVM/PhD Candidate

Virginia Scarpino, Research Technician

Wendy S. Weichert, Research Support Specialist

Isaac Greenhut, temporary Technician  
Shelagh M. Johnston, part-time Office Assistant  
Melanie Ho, Undergraduate Student  
Natalie Johnson, Undergraduate Student  
Jason Kaelber, Undergraduate Student  
Siddharth Khasnavis, Undergraduate Student  
Tyler Lillie, Undergraduate Student  
Eveliina Minkkinen, Visiting Fellow  
Ming Lui, Veterinary Student, Summer 2008  
Leadership Program

#### Grants:

**2003–2009. Principal Investigator.** “Parvovirus structure, capsid assembly and receptors” (with M. Rossmann, Purdue University). National Institutes of Health. 5 R01 AI033486. Current year direct costs: no cost extension. Total project direct costs: \$1,231,170.

**2007–2011. Principal Investigator.** “Mechanisms of parvovirus infection and host range.” National Institutes of Health. 5 R01 AI028385. Current year direct costs: \$245,250. Total project direct costs: \$1,201,833.

**2007–2012. Consortium Principal Investigator.** “The evolutionary and biological bases of host switching in viruses” (with Dr. Eddie Holmes, Penn State University, PI). National Institutes of Health/Pennsylvania State University. 5 R01 GM080533. Current year direct costs: \$95,975 (Cornell). Total project direct costs: \$528,790 (Cornell).

**2007–2009. Principal Investigator.** “Antigenic structure of adeno-associated virus capsids and antibody escape mutants” (with M. Agbandje-McKenna, University of Florida-Gainesville, Co-PI). National Institutes of Health. 5 R21 AI072341. Current year direct costs: \$173,637. Total project direct costs: \$325,637.

**2006–2011. Principal Investigator.** “Training in molecular virology and pathogenesis.” National Institutes of Health. 5 T32 AI007618. Current year direct costs: \$151,820. Total project direct costs: \$742,423.

**2008–2010. K. Hoelzer (Fellow); C. Parrish (Mentor).** “Mechanisms of canine and feline parvovirus emergence and spread.” Morris Animal Foundation, Fellowship Training grant; D08FE-403. Current year direct costs: \$35,595. Total project direct costs: \$72,970.

**2008–2009. Co-Investigator.** “Bioengineering to optimize monoclonal antibodies for passive immunotherapy” (with Dr. M. Jin, PI, Biomed. Engr., Cornell; Dr. A. Moscona, Weill Med. College, Cornell). Northeast Biodefense Center; NYS Dept. of Health. Current year and total project direct costs: \$7,500 (Parrish).

---

#### Alexander J. Travis, VMD, PhD

Assistant (Associate 11/08 –) Professor of  
Reproductive Biology  
Laboratory of Reproductive Biology

#### Team members:

Atsushi Asano, Research Associate  
Chinatsu Mukai Kazama, Postdoctoral Associate  
Danielle Buttke, DVM/PhD Candidate  
Yeonhee (Yoni) Kim, PhD Candidate  
Vimal Selvaraj, Post-DVM/PhD Candidate  
Jacque L. Nelson, Research Support Specialist  
Yevgeniya Mogilevskaya, Undergraduate Student  
Jeremy Salerno, Undergraduate Student  
Sophie Kay, Veterinary Student, Summer 2008  
Leadership Program  
Lauren Wu, Lab Volunteer

#### Grants:

**2004–2009. Principal Investigator.** “Organization and function of lipid rafts in spermatozoa.” National Institutes of Health. 5R01 HD045664. Current year direct costs: \$167,260. Total project direct costs: \$873,703.

**2006–2009. Project Director, Co-PI.** “Developing a Participatory Socio-Economic Model for Food Security, Improved Rural Livelihoods, Watershed Management, and Biodiversity Conservation in Southern Africa.” (Travis, Project Director and Co-PI with Dr. A. Torres and D. Lewis; approx. 20 investigators from multiple institutions). SANREM CRSP, US AID/Virginia Tech. 19024D-425632. Current year direct costs: \$317,417. Total project direct costs: \$1,119,656.

**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.

**2008–2009. Co-Investigator.** “NYSTEM Grant for institutional development of stem cell research capabilities” (with Dr. A. Nikitin, PI, Biomed. Sci., Cornell). NYS Department of Health. C023050. Current year and total project direct costs: \$26,730 (Travis).



## News and Events



Mary Sloane



Peggy Reed

### Mary Sloane and Peggy Reed, Baker Institute Advisory Council members, host luncheon

Mary Sloane and Peggy Reed hosted a special luncheon presentation for friends, Institute donors, and dog enthusiasts at the Aspetuck Valley Country Club in Weston, Connecticut. Dr. Doug Antczak, Baker Institute Director, and the Dorothy Havemeyer McConville Professor of Equine Medicine, and Dr. Rodney Page, Alexander de Lahunta Chair of the Department of Clinical Sciences and Director of the Sprecher Institute for Comparative Cancer Research, gave presentations on equine and canine health. Guests enjoyed the beautiful club, delicious food, and informative conversation.

### Dog lovers join the Baker Institute at the AKC/Eukanuba National Championship

For the second year, faculty and staff from the Baker Institute for Animal Health and the College of Veterinary Medicine ventured to southern California for the AKC/Eukanuba National Championship. Long Beach welcomed breeders, owners, handlers and dog aficionados to enjoy three national AKC events: the AKC Agility Invitational; the AKC National Obedience Invitational; and the main event, a conformation dog show. Agility, one of the fastest-growing dog sports, features dogs with great conditioning, coordination, and concentration as they maneuver through obstacles. Obedience tests the relationship between a dog and its handler. The dogs must respond to commands such as, "sit," "heel," and "down," in an environment filled with distractions. During conformation shows, judges are looking at how well a dog matches the ideal size, color, disposition, proportion, structure, and movement described in the breed standard. This year Holly (*Ch Cookieland Seasyde Hollyberry*), a Pointer, took home Best In Show.

Not only were guests treated to exciting competitions, but they enjoyed an Institute-hosted hospitality room; a private tour of the AKC/Eukanuba National Championship; entertaining dog demonstrations; and "Meet the Breeds," an up-close and personal look at all 140 AKC registered breeds. Each breed has a booth staffed by breed experts, breeders, and owners. Guests can pet the dogs, chat with experts, and learn more about each of the breeds.

### Baker Institute Holiday Card wins CASE award

The Council for Advancement and Support of Education (CASE) announced the winners of the 2009 Accolades Awards, in recognition of outstanding projects completed in 2008. The Baker Institute's Holiday Card, featuring an elongated daschund, received the Gold Medal in the category of Visual Design in Print-Illustrations, judged on overall excellence in design, including typography, use of color, photography/illustration, design, format, printing quality, and budget. The Institute received high praise from the judges and positive feedback from the recipients of the holiday card.

### Leela Noronha wins prestigious NIH award

Leela Noronha, DVM, received a National Research Service Award, granted by the National Institutes for Health. Dr. Noronha is one of three female equine researchers at the College of Veterinary Medicine to earn this accolade, intended to bridge a researcher from mentorship to independence.

Dr. Noronha, who works with Dr. Doug Antczak, focuses her research on equine immunology—specifically, the immunological tolerance of a mother to her fetus. During pregnancy, the mother not only tolerates a fetus, but nurtures this organism comprised of



her own and foreign genetic material. Dr. Antczak's lab has raised this question: why does the mother not reject this foreign tissue as bodies frequently do with organ transplants?

"With transplants, doctors wait for the perfect genetic match," said Dr. Noronha, "and, still, rejection is an issue and the recipient must take immunosuppressant drugs forever. The goal of our research is to gain a detailed understanding of the immunological mechanisms of maternal-fetal tolerance. Such information can lead to applications in fields as diverse as infertility, contraception, transplantation, cancer and auto-immune diseases."

More specifically, Dr. Noronha's research with Dr. Antczak will help researchers understand how to nurture some foreign materials (like organ transplants) and how to eliminate other foreign bodies (like cancer tumors).





### Dr. Karin Hoelzer wins Young Investigator Award

Dr. Karin Hoelzer was awarded a Young Investigator Award and presented her research at the 2008 Merck-Merial NIH Scholars Symposium in August. Dr. Hoelzer, a graduate research assistant and PhD candidate, offered *The road to viral emergence—understanding the emergence of canine parvovirus*, which is based on research conducted in the laboratory of Dr. Colin Parrish and in close collaboration with Dr. Edward Holmes, Professor of Biology at the Pennsylvania State University.

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.

The Merck-Merial NIH Veterinary Scholars Symposium brings together outstanding scientists and veterinary scholars who have been engaged in mentored research experiences over the course of the summer in colleges of veterinary medicine in the United States and Canada. Veterinary scholars share their research findings in poster sessions and have the chance to hear and interact with scientists from diverse fields.

### Bicknese Prize winner

Yeun Hee Kim is the 2008 Bicknese Prize winner. As a member of Dr. Alex Travis's lab, Kim's research focused on preserving male genetic information with spermatogonial stem cells.

These cells, which male animals use to produce sperm, may one day be used in conservation and as a tool for biomedical research. The cells can be transplanted from one animal to another. Kim's research centered on developing these transplantation technologies.

Kim used the Bicknese Prize to purchase a new computer, to help her analyze data and prepare manuscripts for publication.

Kim is now working in Dr. Diane Krause's laboratory at Yale University as a postdoctoral fellow. She is studying hematopoietic stem cells as an extension of stem cell research.

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. The award aims to provide support at a critical point in the trainee's academic development and to help launch her into a successful career. Yeun Hee Kim was chosen in recognition of her cumulative efforts, excellent Institute citizenship, and exemplary academic performance.

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 fiftieth 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.



Dr. Richard Henry, Dr. Judith Appleton, Yeun Hee Kim, and Dean Michael Kotlikoff.



Conference participants exploring Cornell's suspension bridge over Fall Creek gorge.

### American Society of Virology conference held at Cornell

In July 2008, Drs. Colin Parrish, John M. Olin Professor of Virology, and Sondra Lazarowitz, a professor of Plant Pathology, hosted the American Society of Virology's Twenty-seventh Annual Meeting of the Society at Cornell University. Over the course of the five-day conference, approximately 1,400 participants selected among 540 oral presentations and 400 posters presented in seminar, workshop, and symposium format. Esteemed guests such as Dr. Mary Estes, Professor of Molecular Virology and Microbiology at the Baylor College of Medicine and Dr. Mavis Agbandje-McKenna, Associate Professor of Biochemistry and Molecular Biology at the University of Florida, were featured daily. Dr. Parrish, with help from his administrative assistant Shelagh Johnston, provided outstanding opportunities for formal and informal discussions to take place at the receptions, meals, and presentations that were part of the annual event. Founded in 1981, the American Society for Virology provides a forum for dialogue among investigators of human, animal, insect, planet, fungal, and bacterial viruses, whether the research involves the use of clinical, ecological, biological or biochemical approaches. Cornell University has a long history with ASV, having hosted its first meeting in 1982.

## Graduate Students Complete PhDs

---

**Linda Hunter:** January 2008  
Graduate field: Comparative Biomedical Sciences  
Major advisor: Dr. Vicki Meyers-Wallen  
Thesis title: *Mapping of cataract genes in the canine genome, and molecular analysis of PAX6 for causal association with cataract, aniridia, and other ocular diseases.*  
Current position: Postdoctoral Associate, Department of Clinical Sciences, Cornell University, Ithaca, NY.

---

**Vimal Selvaraj:** January 2008  
Graduate field: Immunology  
Major advisor: Dr. Alex Travis  
Thesis title: *Membrane organization and dynamics in mammalian sperm.*  
Current position: Postdoctoral Associate, Shriners Hospital for Children, Sacramento, CA.

---

## Dual-Degree Program Graduate Student Completes DVM

Karla Stucker completed her DVM degree in May 2008 in Large and Small Animal Medicine and Surgery. She is now working toward her PhD, anticipated by August 2011.

## 132nd Westminster Kennel Club Dog Show

In February 2008, friends, donors, Advisory Council members, and dog lovers joined the Baker Institute and the College of Veterinary Medicine at the 132nd Westminster Kennel Club Dog Show. Guests enjoyed the judging and finals of the show from the Institute's sky box suite and were able to get a behind-the-scenes tour of the show's benching area. More than seventy people enjoyed the prestigious show and cheered on the fifteen-inch Beagle, Uno, (*Ch K-Run's Park Me In First*), to "Best In Show" victory.



*Dr. Doug Antczak and Patricia Hearst Shaw enjoying the pre-show set-up.*

## June 2008 trip to Greenwich Kennel Club All-Breed Dog Show, Obedience, and Rally

For the second time, Dr. Doug Antczak, Director, and Lynne Williams, Director of Development and Public Affairs, staffed the Baker Institute booth at the American Kennel Club-sanctioned show held at Taylor Farm Park in Norwalk, Connecticut. Dr. Antczak and Lynne spoke with donors and friends of the Institute who stopped by to visit, and met new friends interested in the Institute. Institute Advisory Council member, Peggy Reed, and long-time supporters of the Baker Institute, Ellen Frenkel and Joy Brewster, are officers of the Greenwich Kennel Club. The Institute receives Greenwich Kennel Club funds to support canine research. Following the day at the show, Dr. Antczak and Lynne attended the prestigious Belmont Stakes horse race and watched Da'Tara take home the victory over Triple Crown-hopeful Big Brown.

## Renovation of Institute offices

The Baker Institute main office and reception area was renovated in 2008. Designed by HOLT Architects, the space is modern, functional, and a fitting representation of the Institute's illustrious history. Purposeful work-stations, abundant storage, and contemporary designs provide staff with the tools to perform their jobs most efficiently in a comfortable work environment.

## Fall Steeplechase in Aiken, South Carolina

In October, Dr. Antczak traveled to Aiken, South Carolina for the 17th Renewal of the Aiken Fall Steeplechase. The prestigious Holiday Cup is a one-day event, with a pre-race party on Friday night, featuring several races and including a carriage parade. Steeplechasing mixes the speed of the flat track with the precision of jumping to create a high-speed, high-stakes race. Dr. Antczak joined Institute Advisory Council member and Aiken Steeplechase Association Board of Directors member, Albert Bostwick, in furthering the legacy and tradition of steeplechasing in Aiken.

## Volunteer and Donor Highlights



*Judy Wilpon with her Golden Retrievers Lefty and Tug.*

### Judy Wilpon

An alumna of the University of Michigan, with a degree in English Literature, Judy Wilpon has always been an animal lover, active in horse and dog competitions for most of her life. She has also been an Advisory Council member and donor to the Baker Institute for Animal Health for almost twenty years.

Judy first learned about the Institute from her veterinarian on Long Island, Dr. Hank Travis, a former Baker Institute Advisory Council member, who introduced her to Dr. Doug McGregor, then Director of the Baker Institute. Later, Judy joined the Institute's Advisory Council, an experience she describes as fascinating and educational. She states, "The people I've met are wonderful and so dedicated to their research. They work hard to make life better for our animals. Nothing gives unconditional love like dogs do, and I want to do all I can to help them live

longer, healthier lives." It is her love of animals and her support for cancer research at Baker that led her to endow the Judy Wilpon Professorship in Cancer Biology.

Judy experienced the devastation of canine cancer firsthand. Already a supporter of the Baker Institute, when Judy bred her beloved Golden Retrievers, she donated the proceeds from the sale of the puppies to the College of Veterinary Medicine and the Baker Institute. Every puppy from those three separate litters died of cancer. (As a result, Judy's dogs are now bred from different bloodlines which seem less susceptible to the disease.) While she is grateful for the health of her own dogs, she remains passionate about supporting the search for better diagnosis, treatment, and prevention of cancer in animals.

Judy learned about Dr. Coonrod's cancer research through friends at Cornell-Weill Medical College where he started his research in cancer cell biology before coming to the Baker Institute. Dr. Coonrod's work in

developmental biology and breast cancer research explores the idea that epigenetics—tiny chemical changes to DNA that affect how a gene is expressed without changing its sequence—may unearth missing pieces to the puzzle of breast cancer. While this work focuses on dogs, it has the potential to improve testing and treatment of human cancers as well. Judy's sister is a breast cancer survivor, so the opportunity to support cancer research on both humans and animals was a perfect fit.

The Wilpon Family Foundation gift also supports training programs in the College of Veterinary Medicine's Department of Clinical Sciences for post-graduate veterinarians specializing in two areas of cancer treatment: Medical Oncology and Radiation Oncology. "We're blessed to be able to fund these programs, trying to make life better for people and animals," she says.

## Jane Engel

When Jane Engel took her yellow Labrador, Valerie, to the Blessing of the Animals at The Cathedral Church of St. John the Divine in New York City, she worried that the dog would be fearful of the large space, the strange animals on either side of her in the pews, or perhaps the elephant parading down the aisle. But her worries were unfounded: Valerie showed unusual calmness and familiarity with the situation. "I know she has been in a church before," says Engel. "She was just perfect."

Valerie was once a seeing-eye dog, before her career was cut short by canine hepatitis. Engel adopted her eight years ago, and Valerie continues to inspire her by showing how dedicated and capable a dog can be.



"I'm amazed by dogs who lead the blind and the hearing impaired, so that people can maintain their independence. Their ability and the training they're capable of is awe-inspiring," she says. Engel often notices vestiges of that training in her dog: Valerie not only knows churches and refuses to chase squirrels, she also stops at every street corner on her morning walk to sit and carefully watch the traffic.

Supporting the Baker Institute was "a natural," says Engel, as a dog lover with multiple Cornell graduates in the family. Engel's son and two daughters each own two dogs. "We're a very dog-oriented family," she says.

"I think Baker has always been very forward-looking in canine and animal health. The research they do enhances the lives of dogs, and filters down to people," she says, remembering that she was particularly impressed by work done in Dr. Acland's lab investigating the genes that cause blindness in Briard dogs. The resulting gene therapy techniques have

already restored sight to a handful of dogs and humans.

In addition to her involvement with Baker, Engel has also served for twenty-five years on the board of the American Kennel Club's Museum of the Dog, which is dedicated to art and literature portraying dogs. She also works with the Bronx Zoo, supporting an internship that allows students to work with the curator of mammals at the zoo.

## Greenwich Kennel Club supports the Baker Institute

Since 1999, the Greenwich Kennel Club (GKC) has generously donated funds to the Baker Institute and its research programs.

Peggy Reed, President of the Greenwich Kennel Club and member of the Baker Institute Advisory Council, describes why GKC supports the Institute: "The research being conducted at the Baker Institute is forward-thinking and has immediate and long-term effects on our pets. From vaccines to genetic tests, the Institute continues

to be a leader in the scientific community, and an invaluable source of information for members of the Greenwich Kennel Club and dog owners worldwide."

The relationship between the GKC and the Baker Institute has flourished over the last ten years, with the Institute attending the Greenwich Kennel Club's dog show the past four years. Furthermore, some of the Institute's most dedicated supporters, Ellen Frenkel and Joy Brewster, are officers on the GKC Board.

Since 1930, the Greenwich Kennel Club has hosted an all-breed show featuring conformation, obedience, and performance events. Today, this well-established outdoor dog show is one of the largest held in the New England area.

The Institute receives support from kennel clubs interested in furthering canine research and preventing diseases in dogs. The Finger Lakes Kennel Club, Mid-Hudson Kennel Club, and the Collie Club of America, among other kennel clubs, made generous gifts to the Institute in 2008.

## Natalie Yakimoff bequest to the Baker Institute

Natalie Yakimoff left behind an enduring legacy. By honoring the memory of her beloved pets Rover, Peer, Twiggy, Yoda, Zorba, Alfie, Terry, Vixen, Hutchie, and Shaka Zulu, through a bequest to the Institute, she has jumpstarted an important fundraising campaign. Her kindness will help fulfill a million dollar goal toward funding the Judy Wilpon Professor of Cancer Biology at the Baker Institute.

Along with Ms. Yakimoff's gift in 2008, the Institute received generous bequests from Dr. R. George Wiswall and Ms. Emily R. Reading. Their support has made a significant impact on the Institute, and has provided a means to maintain and strengthen the Institute's preeminent reputation.



## Memorial Gift Program

We Extend Our Gratitude to  
Participating Veterinarians

Our success in improving animal health through research is dependent, in large measure, upon our association with practicing veterinarians who keep our faculty and staff aware of important issues in veterinary medicine. The Institute's Memorial Gift Program is a valuable vehicle for facilitating communications between the research environment and veterinary practices. New treatments and techniques such as gene therapy, genetic testing, and counseling for inherited diseases, are advanced through support from this program.

We extend our heartfelt thanks to the following veterinarians and animal practices for their contributions to the Institute's Memorial Gift Program in 2008.

A & A Veterinary Hospital:  
Robert B. Altman, DVM

Abundance of Care Pet Hospital: Larry Mauer, DVM and Allen Wachter, DVM

Adirondack Animal Hospital:  
James R. Glendening, DVM

All Pets Medical Center

American Animal Hospital:  
Brian T. Voynick, DVM

Amsterdam Animal Hospital, P.C.:  
John A. Contino, DVM

Animal Care Center:  
Nancy D. Kay, DVM

Animal Care Clinic:  
Merrill K. Johnson, DVM

Animal Clinic of Mt. Vernon:  
Alan Meyer, DVM

Animal General:  
Steve C. Feldman, DVM

Animal General

Animal General of East Norwich

Animal Hospital of Kent:  
Mark I. Feldman, DVM

Animal Hospital of Niskayuna:  
Ronald Scharf, DVM

Animal Hospital of Pittsford:  
Paul Black, DVM

Animal Kind Vet Hospital:  
Mark C. Gibson, DVM

Animal Medical of New City:  
Howard J. Gittelman, DVM

Animal Medicine & Surgery of Little Neck:  
Edward Parver, DVM

Animal Wellness of Skaneateles

Aqueduct Animal Hospital:  
Franklin Rapp, DVM

Ardda Animal Hospital:  
James P. Kutrybala, DVM

Arlington Dog & Cat Hospital:  
Herbert Leary, DVM, Marguerite Hoey, DVM and Rachel Esrig, DVM

Arlington South Veterinary Hospital:  
Angela S. Milligan, DVM

Arrowhead Veterinary Clinic:  
John W. Paepfow, DVM

Aspetuck Animal Hospital:  
Michael F. Gorra, DVM

Baldwin Animal Hospital:  
Neal J. Saslow, DVM

Baldwin Harbor Animal Hospital:  
Leslie B. Dattner, DVM

Batavia Animal Hospital:  
Raymond Pray, DVM

Bay Street Animal Hospital

Bayview Animal Hospital

Bellerose Animal Hospital:  
Andrew Karmin, DVM

Berkeley Dog and Cat Hospital:  
Richard N. Benjamin, DVM

Blair Animal Hospital:  
John W. Wells Jr., VMD

Blandford Animal Hospital:  
Hazel Holman, VMD

Blue Cross Small Animal Clinic:  
Wm. James Brown, DVM

Bolton Veterinary Hospital:  
David S. Coley, DVM

Bond Animal Hospital:  
Douglas G. Aspros, DVM

Briar Patch Veterinary Hospital:  
Carolyn A. McMaster, DVM

Brockton Animal Hospital:  
Ronald Hirschberg, DVM

Brook Farm Veterinary Center:  
Donald E. Kanouse, DVM

Bryan Animal Hospital:  
Carolyn Slavin, VMD

Burlington Veterinary Center:  
Richard K. Esherick, DVM

Burrstone Animal Hospital

Canandaigua Veterinary Hospital:  
William Randall, DVM, Steve Smith, DVM, Sue Ferraglio, DVM and Caroline Barnum, DVM

Cape Ann Veterinary Hospital: Jeffrey B. French and Barbara J. Reid, DVM

Carnegie Hill Veterinarians:  
Alexander J. Miller, DVM

Cassidy Animal Care:  
Sharon Capone, DVM

Central Animal Hospital:  
Michael Woltz, VMD

Central Virginia Veterinary:  
Samuel Baum, DVM

Centreville Animal Hospital:  
Fred G. Garrison, DVM

Clark Animal Care Center:  
Amy D. Charpentier, DVM and Kathleen E. Wakefield, DVM

Clarkson Veterinary Hospital:  
Jess Buttery, DVM

Clover Hill Animal Hospital:  
Ann Ascher, DVM

Cobleskill Veterinary Clinic: Vernon R. Durie, VMD and Kevin S. Baldwin, DVM

Companion Animal Hospital

Companion Animal Hospital:  
Earl Mummert and Margaret Mummert, DVM

Companion Animal Hospital of Virginia  
James F. Cone, DVM

Corfu-Darien Veterinary Clinic:  
Barbara Scheffler, DVM

Countryside Animal Clinic:  
R. A. Swanson, DVM

Croton Animal Hospital:  
Bruce Hoskins, DVM

Davis Companion Animal Hospital:  
Brad Davis, DVM

Deer Park Animal Hospital:  
Scott Rosen, DVM, Cindy Meyer, DVM and Lori Goeders, DVM

Delmar Veterinary Associates

Eagle Animal Hospital:  
David D. Matunis, DVM

Eagle Rock Veterinary Hospital:  
Howard Miller, DVM

East Meadow Animal Hospital:  
William J. Thonsen, DVM

Easthampton Animal Hospital:  
James G. Hayden, DVM

Easton Animal Hospital:  
Mitchell Greenberg, VMD

Eastview Veterinary Clinic:  
Glenn Fahnstock, DVM

Ellicott Small Animal Hospital:  
Robert Stevens, DVM

Englewood Animal Hospital:  
Robert Groskin, DVM

Estates Animal Hospital:  
Barry Eisenkraft, DVM

Fairfield Veterinary Hospital:  
Timothy Plunkett, DVM

Fairview Veterinary Hospital: Robin L. Lovelock, DVM and Mark Pessin, DVM

Farmington Veterinary Clinic:  
Andrea Bergman, DVM

Farmingville Animal Hospital: Richard Jacobson and Dennis Zawie, DVM

Flower Valley Veterinary Clinic:  
James J. Burns, DVM

Ford Veterinary Associates:  
Walter K. McCarthy, DVM

Fountain House Veterinary Clinic:  
Alan Tausz, DVM

Gearhart Veterinary Hospital:  
Martha S. Gearhart, DVM

Georgetown Veterinary Hospital:  
Stanley J. Truffini, DVM, and Carol J. Gamez, DVM

German Flatts Vet Clinic:  
Nicholas C. Chuff, DVM

Glen Animal Hospital



Godspeed Mobile Veterinary:  
Pamela N. Dumont, DVM, B.J. Schiller,  
DVM, Chantal J. Mullins, DVM and  
Erin B. Evine, DVM

Goodman Animal Hospital, Ltd.:  
L. William Goodman, DVM

Goosepond Animal Hospital:  
Howard Rothenberg, DVM, Christopher  
Alwang, DVM, Marci Scarano, DVM and  
Kevin Corr, DVM

Goshen Animal Clinic:  
Kenneth Ostroff, DVM

Great Neck Animal Hospital:  
Brian Rind, DVM

Greece Animal Hospital

Greenwich Animal Hospital:  
David Kramer, VMD

Dr. and Mrs. Martin Gruber

Hamilton Animal Hospital:  
Francis S. Marturana, DVM and  
Gerard E. Kolb, DVM

Harlingen Veterinary Clinic: Christine  
A. Newman, DVM, Kriten Ripberger,  
DVM, Stephen Schwirck, DVM, Lauren  
Feldman, VMD, Charles T. Schenck,  
DVM and Carole Zydiak, DVM

Hartsdale Veterinary Hospital

Hawthorn Animal Hospital:  
James M. Jorgenson, DVM

William Herbold, DVM

Highland Animal Hospital:  
Kathryn J. Smith, DVM

Hillsborough Veterinary Hospital:  
Charles Schwirck, DVM

Hilton Veterinary Hospital:  
Susan Cousins, DVM

Home Veterinary Services:  
Jeanne Baines, VMD

Huntington Animal Hospital:  
Jeffrey M. Kramer, DVM

Irondequoit Animal Hospital  
Linda Jacobson, DVM

Jeffersonville Animal Hospital:  
Richard L. Schwalb, DVM

Katonah Veterinary Group:  
David Sachs, DVM

Keating Animal Hospital:  
Mary Keating, DVM

Mark Helfat, DVM

Layhill Animal Hospital:  
Robert A. Adelman, DVM

Leicester Animal Clinic:  
George M. Yancey, DVM

Lexington Animal Hospital:  
Sheryl H. Carls, DVM

Linwood Animal Hospital:  
Carol A. Cookingham, DVM

Locust Valley Veterinary Clinic:  
Stuart E. Gross, DVM

Lyndon Veterinary Clinic:  
Eric M. Davis, DVM

Manchester Veterinary Clinic: Joshua  
Atz, Cornell '84, Dr. Lenka Babuska,  
Cornell '84, Dr. Alexis Soutter, Tufts '03

Manetto Hill Animal Hospital:  
Neil Weiss, DVM

Manhasset Animal Hospital:  
Robert L. Henrickson, DVM

Manheim Pike Veterinary Hospital

Manlius Veterinary Hospital:  
Jennifer Goetz, DVM

Manorville Pet Vet: Pamela Moks, DVM

Marsh Hospital for Animals: Mark  
Milwicki and Kimberly Taggart, DVM

Matawan Animal Hospital:  
Barry N. Kopp, VMD

Mattapoissett Animal Hospital

Meadowridge Veterinary Clinic, P.C.

Medway Animal Hospital:  
Michael P. Robinson, DVM

Meker Veterinary Clinic:  
Gafur N. Memon, DVM

Middle River Veterinary Hospital:  
Kathryn Dobyns, DVM

Middletown Veterinary Hospital:  
Michael Brothers, DVM

Milford Animal Hospital:  
R. A. Dubensky, DVM

Milford Animal Hospital: David L.  
McGee, DVM, John W. O'Neil, DVM,  
Valerie Blasi, DVM, Jeffrey Sachar, VMD  
and Melissa Moore, DVM

Miller - Clark Animal Hospital:  
John E. Pinckney, DVM

Millwood Animal Hospital:  
Robert A. Mavian, DVM

Mobile Veterinary Services:  
Steven J. Cohen, DVM

Montague Veterinary Hospital:  
Richard H. Coburn, DVM

Montrose Animal Health Center:  
Nolan P. Rubin, DVM

Mt. Lakes Veterinary House Call Service:  
Kim Slade, DVM

Nanuet Animal Hospital

New Milford Animal Hospital:  
Robert H. Belden, DVM

Newport Veterinary Hospital:  
Durward W. Starr, DVM

North Country Veterinary Services

North Shore Animal Hospital:  
Ronald Rosen, DVM, Michael Ferber,  
DVM, and Robert Foley, DVM

North Shore Veterinary Hospital:  
Russell W. Fredericks and Richard W.  
Fredericks, DVM

North Windham Animal Hospital:  
Todd B. Friedland, DVM

Northern Lakes Veterinary Hospital:  
Donald Lester, DVM

Northern Tier Vet Clinic:  
Philip C. Saxton, DVM

Norwell Veterinary Hospital:  
Kathryn Sneider, VMD

Oakton-Vienna Veterinary Hospital

Old Brookville Veterinary Practice:  
Sarah F. Ehrenson, DVM

Olde Towne Animal Hospital

Oneida Animal Hospital

Oradell Animal Hospital

Otterkill Animal Hospital:  
James C. Zgoda, DVM

Oyster Bay Animal Hospital:  
Surindar Wadyal, DVM

Palmyra Animal Hospital:  
Bill Murphy, DVM

Park Ridge Animal Hospital:  
Donna M. Manderino, DVM

Patchogue Animal Hospital:  
Harvey S. Atlas, DVM

Penfield Veterinary Hospital

Perinton Veterinary Hospital

Pet House Calls Veterinary Clinic:  
JoAnne Leja, DVM

Pine Plains Veterinary Assoc:  
Michael J. O'Neill, DVM

Pleasant Valley Animal Hospital:  
Martha Gearhart, DVM

Pleasantville Animal Hospital:  
Alan B. Schreier, VMD

Ridge Animal Hospital:  
David Monti, DVM

Ridgewood Veterinary Hospital:  
Dean J. Cerf, DVM

River Forest Animal Hospital:  
Ezekiel Thomas, DVM

Rockledge Veterinary Clinic:  
Francie L. Rubin, DVM

Rondout Valley Veterinary Associates:  
Eric Hartelius, DVM

Rupert Veterinary Clinic:  
Jean R. Ceglowski, DVM and  
Eugene C. Ceglowski, DVM

Ruxton Animal Hospital:  
Michael H. Kaplan, DVM

Rye Harrison Veterinary Hospital

Sakonnet Veterinary Hospital: Kenneth  
E. Rix and William E. Condon, DVM

Salmon Brook Veterinary Hospital

Saugerties Animal Hospital:  
Howard W. Rothstein, DVM

Schulhof Animal Hospital:  
Curt C. Benyei, DVM

Rebecca Seacord, DVM

Sleepy Hollow Animal Hospital:  
Brian Green, DVM

Smithaven Veterinary Hospital:  
Clifford N. Conarck, DVM

Somers Animal Hospital: Seymour J.  
Schimelman, DVM, Martin G. Randell,  
DVM and Timothy D. Walker, DVM

Somerset Animal Hospital: Danny T.  
Noble and James L. Thompson, DVM

South Towne Veterinary Hospital

South Wilton Veterinary Group

South Windsor Veterinary Clinic:  
Carole Werkhoven, DVM

Southwick Animal Hospital:  
Patricia Kuzmickas, DVM

Springville Animal Hospital:  
Michael Reilly, DVM

St. Francis Animal Clinic:  
Gafur Memon, DVM

Stack Hospital For Pets: Patricia Lucia  
and Marcia Ziegler-Alexander, DVM

Stafford Veterinary Hospital:  
Ronald F. Hurley, VMD

Star Meadow Animal Clinic

Stone Ridge Veterinary Hospital

Stratford Animal Hospital

Suburban Animal Hospital

Suffield Veterinary Hospital:  
Ann L. Huntington, DVM, Anita C.  
Sabellico, DVM, Dawn M. Burke, DVM,  
Jean M. Herrman, DVM and Griffin B.  
O'Connor, DVM

Sunrise Animal Hospital

The Animal Hospitable Veterinary Clinic:  
Teresa Labuszewski, DVM

The Country Vet:  
Thomas DeVincentis, DVM

The Moriches Hospital For Animals:  
Kevin G. Lynch, DVM

Veterinary Center of East Northport:  
Kenneth R. Gantt and Margaret B.  
Ullmann, DVM

Thorn Avenue Animal Hospital:  
John S. Clauss, DVM

Thornwood Veterinary Hospital:  
Raymond J. Schuerger, DVM

Three Village Veterinary Hospital:  
John DeVerna, DVM

Titusville Veterinary Clinic:  
Jonathan P. Walker, DVM

Town and Country Hospital for Pets

Triboro Animal Hospital:  
William H. Marienberg, DVM

Tryon Veterinary Care:  
Stephen Wyler, DVM

Tyngsborough Vet Hospital:  
Thomas P. Walsh, DVM

University Animal Hospital:  
Marc S. Wallach, DVM

Valley Cottage Animal Hospital:  
Patricia Collins, DVM

Veterinary House Calls:  
Raymond Hayes, DVM

Veterinary Housecall Service of  
Rochester: William Murphy, DVM

Veterinary Internal Medicine Clinic

Veterinary Multi-Imaging:  
Victor Rendano, DVM

Veterinary Specialty Hospital:  
Keith P. Richter, DVM

Viking Community Animal Hospital:  
Angela Gamber, DVM

Village Animal Clinic:  
Martin De Angelis, DVM

Wantagh Animal Hospital:  
Glenn A. Anderson, DVM

Watertown Animal Hospital

West Chelsea Veterinary Hospital:  
Michael E. Farber, DVM

Harold M. Zweighaft, DVM

West Park Veterinary Services:  
Keri Mackey, DVM, Lauren Ellender,  
DVM, and Tara Farmer, DVM

Whiting Veterinary Clinic:  
Lisa Schorr, DVM

Windsor Veterinary Clinic:  
Darryl S. Praul and Erika Praul, DVM

Winsted Hospital For Animals

Wolfe Animal Hospital:  
Robert Wolfe, DVM

Woodbury Animal Hospital:  
Marc A. Franz, DVM

Wright's Corners Animal Care Center:  
David Monti, DVM, Bethann Lewis-  
Strothmann, DVM, Amy Schreiner, DVM  
and Charles McCausland MS, DVM

Harold M. Zweighaft, DVM

# Honor Roll of Giving

Partners in Progress; Private Support for the Baker Institute in 2008

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, 2008. 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 Jennifer Benson at 607-256-5604 or [jl478@cornell.edu](mailto:jl478@cornell.edu).



## Founder's Circle

Contributions of \$5,000 or more

David A. Behnke and Paul F. Doherty  
(in honor of Maggie and Quinn)  
Joanne Bicknese  
The Albert C. Bostwick Foundation  
Butler Family Foundation  
Bonnie L. Coble  
Maria Daversa and David Gulley  
The Robert G. and Jane V. Engel  
Foundation  
Ellen Frenkel  
Peter J. Frenkel Foundation  
William Haines  
Nancy Hamilton (in honor of Dr. and  
Mrs. Dean J. Cerf)  
Dorothy Russell Havemeyer Foundation  
Dr. and Mrs. Richard Henry  
(in honor of Doug Antczak)  
Jane Ponty and Alexander Cox  
(in memory of Emmy and Beamer)  
Dr. and Mrs. Donald Powell  
Estate of Emily R. Reading  
James B. Richardson Trust  
Mr. and Mrs. Dean Sloane  
Eugene V. and Clare E. Thaw  
Charitable Trust  
Mary Clare Ward  
Fred and Judy Wilpon  
Mr. and Mrs. W. Weldon Wilson  
George Wiswall Charitable Remainder  
UniTrust  
Estate of Natalie Yakimoff  
(in memory of Rover, Peer, Twiggy,  
Yoda, Zorba, Alfie, Terry, Vixen,  
Hutchie and Shaka Zulu)

## Director's Circle

Contributions of \$2,500 to \$4,999

Claire Fraser (in memory of Shadow)  
The Greater Milwaukee Foundation  
Corp.: Steven S. Lindsay Memorial Fund  
Andrew Henschel  
Anne Lynne Torda  
(in memory of Merlyn, Tristan, Nimue,  
Cavall and Heathcliff)

## Institute Patrons

Contributions of \$1,000 to \$2,499

Douglas Antczak  
(in memory of Rosie and Edward)  
Australian Cattle Dog Club of America  
Estate of Katharine N. Baker  
Dr. and Mrs. Lewis Berman  
Sally and Philip Bogdanovitch  
Dr. and Mrs. John Brennan  
Linda Butler  
Collie Club of America Foundation  
The Strachan & Vivian Donnelley  
Foundation  
Mr. and Mrs. George Edwards  
(in memory of Dr. and  
Mrs. Charles E. Fletcher)  
Robert Ferber  
William Field  
Finger Lakes Kennel Club  
William Gratz  
Greenwich Kennel Club  
The Shirley W. and William L. Griffin  
Foundation  
Barbara Herndon  
Joanne Hess (in memory of Lucy,  
Nestor, Izze, Pepper, Kate, Ashley,  
Cujo, Panzer, Hexi, Bean, Montrose,  
Micah, Lucy Lou, Charlie's Angel,  
and Duncan)  
Dr. and Mrs. David Jenkins  
Dr. and Mrs. Du Bois L. Jenkins  
Malcolm Kram and Mark Zwanger  
(in memory of Christopher and  
Champion Spirit of the Sun)  
Mr. and Mrs. Spencer Lauer  
Jennifer Loggie (in memory of Ripley)  
James A. Macdonald Foundation  
Sharon Lee MacDonald Charitable  
Trust: Donna MacDonald  
Peter Malnati  
Molly McCarthy and Anne Fowler  
(in memory of Penny)  
Edward C. Melby, Jr.  
Mid-Hudson Kennel Association  
(in memory of Linka, Annie, Chrissy,  
Tighe, Sweetie, Lincoln, Twister, Angel  
and Canala)  
Frank Murphy

Mr. and Mrs. Joseph Nardini  
Mr. and Mrs. Michael Nolan  
(in honor of Dr. Douglas Antczak)  
Dr. and Mrs. Philip Reilly  
(in honor of Zoe)  
Mary Rockefeller  
Barbara Selvitella  
Mr. and Mrs. Bernard Shaw  
(in honor of Peggy Reed)  
Sloane Family Foundation  
Michael Strianese  
Mr. and Mrs. Jan Suwinski  
The Suwinski Family Foundation  
Joan Willson  
(in memory of Ch. Thenderin O'Toole)  
Barbara Wood  
Harold Zweighaft

## Sustaining Members

Contributions of \$500 to \$999

Barry Albano (in memory of KC Shadow  
Raptor and Brandy Alexander Sunset)  
Dr. and Mrs. James Apostolides  
George Bagley  
Karen Bailey (in memory of Kahla)  
Joanne Baldasarra  
(in memory of Peanut and Sissy)  
Dr. and Mrs. Alan Baum  
Mr. and Mrs. Stephen Beaudin  
(in memory of all their dogs)  
Dr. and Mrs. Albert Beck  
(in memory of Mikey and Drummer)  
Mr. and Mrs. Warren Bicknell  
Wendy Bicknell  
Margaret Bliss  
(in memory of F. Walter Bliss)  
Mr. and Mrs. Sean Bolks  
Wendy Bowditch  
(in memory of Maggie)  
Clements Family Charitable Trust  
Florence Cusano  
(Richard A. Cusano Memorial Fund)  
Nancy Dickenson  
Fuliang Du and Fei Xue  
Martin Elias  
Elmira Kennel Club

Nancy Fantom: Saddleback Pet Service  
 Firman Fund  
 Kathy Georgianna  
 Jeffry and Susan Grabel  
 (in memory of Abbie, Sydney and Fluff)  
 Gracelane Kennels  
 Mr. and Mrs. Antonio Gross (in memory  
 of Samantha, Apollo and Gecco)  
 Ronald Jacobs (in memory of Tangles,  
 OJ, Tyler and Kiba)  
 Wilma Joyce (in memory of Dakota,  
 Rufi, Rikki, Shannon, Annie and Ginger)  
 Saul Korduner (in memory of Jason)  
 Dr. and Mrs. David Lawrence  
 Marta Jo Lawrence  
 Lehnus Family (in memory of BJ)  
 Stephen and Amy Leibeck  
 Mr. and Mrs. James Leo  
 (in memory of Dusty and Shadow)  
 Ben Littauer and Kathy Kerby  
 (in memory of Beta Littauer-Kerby)  
 Carol Mead  
 Holly Mignogna (in memory of Sunny,  
 Niles, Tucker and Travis, in honor of  
 Homer and Miller Clark Animal Hospital)  
 Olympic Kennel Club  
 John Parker and Tracy Stokol  
 Susan Parti  
 (in memory of Daisy and Molly)  
 Robert San Filippo and Chris McGeachy  
 (in memory of Katie, in honor of  
 Dr. Michael Kaplan)  
 William Selden  
 (in memory of Boomer and Cassius)  
 Mr. and Mrs. Sanford Siegelstein  
 Sarah Sparkowski (in memory of Wolfer  
 and Dr. Forrest Davis)  
 Virginia Strunk (in memory of James A.  
 Strunk, Peppy Baby, Tiger Baby, Tweetie  
 Bird and Jack)  
 The David and Sylvia Teitelbaum Fund  
 Dina and Paul Tresnan  
 (in memory of Cory)  
 Mr. and Mrs. Gregory Warmuth  
 (in memory of Sterling)  
 Max Weintraub  
 (in honor of Ellen Frenkel)

## Sponsors

### Contributions of \$250 to \$499

Amelia Annunziata  
 (in honor of Dr. Harold M. Zweighaft)  
 Hana Appel (in memory of Max)  
 Andrea Aufiero (in memory of Chester)  
 Mr. and Mrs. W. Malcolm Barksdale  
 (in memory of Carol A. Burns)  
 Richard and Jappie K. Black  
 (in memory of Dixie)  
 Robert Bottrell  
 Joseph Bukowski  
 (in memory of Honey and Bunny)  
 Cynthia Camargo  
 Margaret Cone  
 Dr. and Mrs. Robert Decher  
 Mary DeKlyn (in honor of Peggy Reed)  
 Elmer Fredd and Marion Bingert  
 Helen Friderici  
 Joseph and Loreen Friedlander  
 Roland Gregg  
 (in memory of Snuffy, Snoopy and Sally)  
 Maura High  
 Lois Hilgeman (in memory of Tory)  
 Germaine Hodges  
 (in memory of Tiger Lily and Homer)  
 Kaye Hughes  
 (in honor of Dr. John Clauss)  
 Louise King  
 (in memory of Mr. Fritz and Mancha)  
 Darlene and David Klein  
 Camilla Knapp (in memory of Fudge)  
 Janis L. Koch (in memory of Christy,  
 Piobaireachd and Braemar)  
 Alexandra Langner (in memory of  
 Oliver, Sylvester, Bons and Ruby)  
 Judith Litt (in memory of Leader)  
 Richard Lunna (in memory of Jewel)  
 Judy Mangin  
 Jean Martin  
 Kimberly McKean and Scott McCaul  
 (in honor of Dr. Steven Hill)  
 Lloyd Miller  
 Joan Mizer  
 Shirley Moyer (in memory of Boo)  
 Ronald Nehring and Kristina Hindert

Elizabeth Oberdorfer  
 Frances Oldfield  
 (in memory of Cinnamon and Misty)  
 Karen Oros  
 Ann Parziale  
 (in memory of Manny and Odie)  
 Lynn Phillips (in honor of Joan Willson)  
 Mr. and Mrs. Dennis Picano  
 Gerald Pogue (in memory of Maxwell)  
 Joseph Russo (in memory of Danny)  
 Robert Scalise (in memory of Anubis)  
 Alesia Schauf  
 (in memory of Barbara Bennett)  
 Mr. and Mrs. William Sims  
 (in memory of Sabrina)  
 Spring Hill Kennels: Hank and Mary  
 Tschorn  
 Cathy C. Stein (in memory of Cleo,  
 Luka, Terra and Clancy)  
 Howard Steiner  
 (in memory of MaryLou Steiner)  
 John Sullivan  
 Andrea Tessler and Michael Scarsella  
 (in memory of Mesa and Jackson)  
 Susan Train (in memory of Gogo)  
 Hank and Liz Tucker  
 (in memory of Taz and Sam)  
 Margaret Valbona  
 Vallarino Family (in memory of Coco)  
 Karen Warner  
 (in memory of Vivian Swan, Leyla, Daisy  
 and other pets, living and deceased and  
 in honor of Henry Euler)  
 James Young  
 William E. Zitek

## Benefactors

### Contributions of \$100 to \$249

Janie Abbott (in memory of Melinda)  
 Richard and Liz Adams  
 (in memory of Lady)  
 Susan Adler  
 (in honor of Judy and Fred Wilpon)  
 Lynn Alexander (in honor of Emmett)  
 Catherine Allard (in memory of Jessie)  
 Almost Home Kennels  
 Susan Alpern Fisch

Leo M. Alves and Patricia A. Grove  
 (in memory of Belladonna Took,  
 Gandalf, Musetta and Jock)  
 Mr. and Mrs. Leslie Anthony  
 Mr. and Mrs. Ray  
 (in memory of Emily Rose)  
 Mr. and Mrs. Edward Arienti  
 (in memory of Simon)  
 Steven and Karen Austin  
 (in memory of Merli)  
 Deborah Aviles  
 (in memory of Rocky and Winkel)  
 Jo Ann Aymar  
 Marygrace Baergen  
 Mr. and Mrs. Steven Baran (in memory  
 of Blitzler, Lady, Jeep and Kipper)  
 Judy Barcy (in memory of Butch Cassidy)  
 Rosanne Barsamian  
 (in memory of Margaux and Jiggers)  
 Roger Batchelder  
 Mike and Patti Bates (in memory of  
 Mader, Joey, Lakota, Mama Kitty, Mikey  
 Hooter and Hoppy)  
 Donna Baumer  
 (in memory of Hershey and Cody)  
 Herman Baumgarten  
 Arnold and Lourdes Benus  
 (in honor of Judy and Fred Wilpon)  
 Sandra Blanco (in memory of Rex, Little,  
 Millie, Toby, Portia, Oreo, Blaze, Jenny,  
 Huggy Bear, Murphy, Molly, Sport,  
 Sophie, Daniel, Nala, Lester, Sonya,  
 Yoyo, Scooby and Laddie)  
 Denise Block  
 Michael Bloom (in memory of Max)  
 Haig Boyadjian  
 (in memory of Dare and Chico)  
 Edward Bragg (in memory of Baron)  
 Margaret Brantley  
 James Brayton  
 Ann Brogan  
 (in memory of Shep and Buddy)  
 Mr. and Mrs. Brant Brooks  
 (in memory of Maddie)  
 Mr. and Mrs. Robert Bruns  
 (in memory of Misty)  
 Mr. and Mrs. Lawrence Buckland  
 (in memory of Tucker and Heidi)  
 Mr. and Mrs. Bruce A. Bucklinger

Judith Budner  
 (in memory of Edward Carr)  
 Doris Burkett (in memory of Buttercup,  
 Winston, Schmoos and Princess)  
 Deborah Bury  
 (in memory of Barbara Bennett)  
 Stephen Busack  
 (in memory of Mugsie and Skipper)  
 Robert Byles (in memory of Jake)  
 Jean Cahill (in memory of Morgon)  
 Sheila Cahoon (in memory of Morgan)  
 Christine Calamia (in memory of Buster,  
 Mookie, Aldo and Sunny)  
 Laura Calderwood  
 (in memory of Ming Toy)  
 Eva Cancel  
 (in memory of Christopher Walter)  
 Mr. and Mrs. James Caron  
 (in memory of Murphy)  
 Mr. and Mrs. Mark Carty  
 Victoria Caruso  
 Sal Casoria (in memory of Deanna)  
 Donna Cattano and Isreal Simoes  
 (in memory of Banjo)  
 Robert Chalfont (in memory of Bama)  
 Darlene Chauvin  
 (in memory of Teddy and Lucky)  
 Mr. and Mrs. Lawrence Chinsky  
 (in memory of Pat Pearson)  
 Mr. and Mrs. David Christa  
 (in memory of Jack)  
 Mr. and Mrs. Don Cloud  
 (in memory of Luka)  
 Carola Coburn  
 Robert Coley (in memory of Bertie)  
 Mr. and Mrs. Gene Conklin  
 (in memory of Grunt, Morris and Candy)  
 Michael Corn  
 (in memory of Barbara Bennett)  
 V. Costantino (in honor of Bonnie Jean)  
 Lesley Cowenhoven  
 (in memory of Zoey Marie)  
 Thomas D'Amore (in memory of Tucker)  
 Joyce M. Dalton (in memory of Bally)  
 Patricia Daly (in memory of Harley)  
 Jody Daulton  
 Sally Davidson  
 Mary and Kevin Davis



## The Baker Institute Memorial Gift Program

Many people learn of the Baker Institute when their veterinarian makes a gift to the Institute in memory of a pet that has passed away. We receive many wonderful letters from these pet owners telling us of their beloved pets, their antics, and their illnesses. These tribute gifts from the veterinarians, and also the pet owners, provide the much-needed funds to support our very successful research programs. We are working hard so that all of our pets may live longer, more disease-free lives.

A complete listing of our participating veterinarians and clinics is on pages 26-27.

## Gifts May Be Made On Our Web Site

In just a few minutes on your computer you can make an on-line gift to the Baker Institute for Animal Health in memory or in honor of a cherished pet or person.

Using our secure web server, you can use your Visa, MasterCard, American Express, or Discover to make a gift. Visit us at [bakerinstitute.vet.cornell.edu](http://bakerinstitute.vet.cornell.edu) and select the Giving section. You will see a tab "Make an On-line Gift Now." Click here and complete the on-line form. It's that simple.

If you would like to mail your gift, please send it to Jennifer Benson, Baker Institute for Animal Health, Cornell University, Ithaca, NY 14853. You can also make a gift by telephone to Jennifer at 607-256-5604 or by email at [jlb478@cornell.edu](mailto:jlb478@cornell.edu).



Dr. and Mrs. Gerald Dean (in memory of Sundance)  
 Mr. and Mrs. James Dearborn (in memory of Baby, Amy, Kakoa and Bud)  
 Susie Del Biaggio (in memory of Jigs, Miter and Skill)  
 Mr. and Mrs. Owen F. Devereux (in memory of all their dogs and cats)  
 Rosemarie DiBuono and YMCA friends (in memory of Frankie)  
 Katherine Dollinger (in memory of Nard)  
 Mr. and Mrs. Lee DuBois (in memory of Benji and Jeb, in honor of the doctors and staff at Olney-Sandy Springs Veterinary Hospital)  
 Patricia Duda (in memory of Buster and Deckett)  
 David J. Dueland  
 Margaret Dungan (in memory of Chelsea, Pee Wee, Lindsay, Black Cat and Gunther)  
 Debra Eldredge  
 Luella Ellingwood (in memory of Daisy)  
 Claire Engle  
 Mr. and Mrs. Ronald Evershed (in memory of Bailey)  
 Mr. and Mrs. Gary Farrell (in memory of Jazz)  
 Mr. and Mrs. Arthur Feidler III  
 Mr. and Mrs. Jack Feintisch (in memory of Romeo)  
 Chris and Red Ferry (in memory of Bella)  
 Nancy Frantz  
 Mr. and Mrs. Maurice Fraser (in memory of Ben, Ruffles and Charlie, in honor of Dr. Keith Richter)  
 Mr. and Mrs. Thomas Garrett  
 Bonny and Brian Geitlinger (in memory of Josh)  
 Mr. and Mrs. Paul Ghaffari (in memory of Nicholas)  
 Beverly Gidley (in memory of Sundae)  
 Brenda Giovannello  
 Mr. and Mrs. Joseph Giovannoli (in memory of Kisco and Sam)  
 Neal Glass (in memory of Jacques)  
 Stanley Glasser (in memory of Prof. Robert Foote)  
 Alvin and Ellie Goldman (in memory of Darrow, Bailey and Brody)

Ellen Goldsmith (in memory of Reggie)  
 Susan Goody (in memory of Mrs. Bunting and Fern Phiel)  
 Spencer Gordon (in honor of Trixie)  
 Anne and David Griffin (in memory of Obie)  
 Diane Griott (in memory of Cera, Geronimo and Reba)  
 Mr. and Mrs. Frederick Haas  
 Mr. and Mrs. Fred Haitz  
 Mr. and Mrs. Frederick Hall (in memory of Buffy Noel)  
 Marion Hamblett (in memory of Willy, Nancy, Elina M. Blais, Valentine, Nebraska and John Kaelin)  
 Caryl Handelman (in memory of Max, Cashew, Ginger, Riffle, Coffee, Arrow, Sophie and Sheba)  
 Mr. and Mrs. Anthony J. Hannett (in memory of Red and Shadow)  
 Ganon Harish  
 Constance Harris (in memory of Fellini)  
 Corinne Harrison (in memory of Bailey's English Dream)  
 Carole Hawkes (in memory of Rapheal and Winkey)  
 Douglas Hayes (in memory of Hogan and Suzie)  
 Michael Healey  
 Sharon Henderson  
 John Hendricks (in memory of Brandy)  
 Paul Herbert (in memory of Toby, Amos and Andrew)  
 Barbara Herendeen (in memory of Mika)  
 Diantha Hertzog (in memory of Barbara Bennett)  
 Elizabeth Hess (in memory of Killin, Pele, Lono, Kiwi, Zoe and Bit)  
 Mr. and Mrs. Michael Hesser (in memory of Chelsea, Edward, Ralph Davies, Tina, Baby and beloved Kitty)  
 Karen Hoehn (in memory of Scout and Benson)  
 Mr. and Mrs. Jeffrey Hogan (in memory of Simon, Peaches and Sam)  
 Susan Holmes (in memory of Sasha, Muppet, Tucker and Bino)  
 George Holmes (in memory of Henrietta Robinson Curtis)

Elaine Hopson (in memory of Rusty, Lindy, Foxy, Sunshine, Moonshine, Starshine, Minnie, Twinkle, Blackfoot, Bandit, Fluffy and Pinkie)  
 Garfield Horn  
 Sharon Hughes (in memory of Foxy and Nipper)  
 LeeAnn Hughes-Martin (in memory of Ninja and Cinder)  
 Joan Jackson (in memory of Dr. Stanley Jackson, Michail, Timothy, Paddy McGintity, Macpherson, Casey and Clancy)  
 Mr. and Mrs. Philip Jensen  
 Mr. and Mrs. Edward Johnson (in memory of Bebe)  
 Cydney Johnson (in memory of Brinkley)  
 Joan Jonas (in memory of Zina)  
 Mr. and Mrs. H. Wayne Jones (in memory of Buffett)  
 Margaret Jurmark (in memory of Paradox, Faye, Sweet Pea, Jingles, Sammy and Albie)  
 Lila Kalnins (in memory of Simba)  
 Mr. and Mrs. Charles Kaman (in memory of Nick Mickelson)  
 Linda Karl (in honor of Angela Baldanza)  
 Dennis and Ann Katz (in memory of Dudley)  
 John Kehoe (in memory of Boz)  
 Fran King (in memory of Annie)  
 Richard Kingdon  
 Linda Kleet (in memory of J.T. and Bertha)  
 Louise Koettters (in memory of Sonny and Barney)  
 Margaret Kotek  
 Diane Kranz (in memory of Ruff and Mr. Bear)  
 Mr. and Mrs. Douglas Kreinheder  
 Mr. and Mrs. Joseph Krysiak  
 Carol Lambert (in memory of Hannah)  
 Judith Lang  
 Mr. and Mrs. Thomas Langan (in memory of Sammy and Wylie)  
 William Lange (in memory of Tucker, in honor of Stewart L. Ketchum, DVD)  
 Mr. and Mrs. Frank Lauria (in memory of Sarge and Kookee)

Mary Laviola (in memory of Teddy and Jordy)  
 Ann Leary (in memory of Pongo)  
 Mr. and Mrs. Ray Leib (in memory of Shadow and Emily Rose)  
 Mr. and Mrs. Jerome Levin (in memory of Marley, in honor of Mollie and Maddie)  
 Dale Lindholm (in memory of Sophie)  
 Constance Lindsay-Stewart (in memory of Wellington)  
 Judith Lipton (in honor of the English, Art and Library Departments of FLHS)  
 Maria Long (in memory of Rusty)  
 Mr. and Mrs. Terry Ludwig  
 Richard Auer (in memory of Wart, Mort and Myrle)  
 Thomas Marino (in memory of Oscar)  
 Mr. and Mrs. Lloyd Martin (in memory of Millie and Jack)  
 John Mascia (in memory of Debby Simon)  
 Susan Matheson  
 Gregory Matthei  
 Dorothea Matthews (in memory of CH. Ha' Penny Horwood Woodstock)  
 Mr. and Mrs. Everette Mayer (in memory of Bailey, K.C.C. and B&W)  
 Diana McConnell (in memory of Skye and Frisbee)  
 Patrick McCord (in memory of Cassie)  
 Sharron McDaniel (in memory of Coco)  
 Maureen McDaniel (in memory of Reilly)  
 Mr. and Mrs. Crane McDonald (in memory of Mitzie and Ginger)  
 Patricia McHugh (in memory of Clifford and Charlie)  
 Rosemary McLaughlin (in memory of George A. Mitchell)  
 Dr. and Mrs. Roderick Meier  
 Christopher Mesh (in memory of Ashes)  
 Larry Messner (in memory of Mandy)  
 Gail Miller  
 Mae Miller (in memory of Marilyn)  
 Deborah S. Mintz (in memory of Nutmeg)  
 Donna Mochi (in memory of Dusty)  
 Mr. and Mrs. Gary Montano (in memory of Sir Bailey Boy)

Mr. and Mrs. Gareth Morgan (in memory of Charlie)	Pillsbury Winthrop Shaw Pittman Pipestone Associates	Dr. and Mrs. Thomas Scavelli (in memory of Coco and Shadow)	John Thomas	Ronald Willis (in memory of Jake)
Carole Morrow (in memory of Callie, in honor of Thornwood Veterinary Hospital)	Rick Pisani (in honor of Judy and Fred Wilpon)	Bonnie Schubel	Gary Tokatlan	Mary Anne Wilmot (in memory of Copper and Lottie)
Mr. and Mrs. John Mosser (in memory of Thomas Wood Mosser, Ruth Preston Mosser and Scruffy)	Anne Plimpton	Priscilla Schumrick (in honor of Dr. David McGee)	Mr. and Mrs. Edward Tory (in memory of Ricky)	Richard Winey (in memory of Laddie, Bow Bow and George)
Mr. and Mrs. John Murphy (in memory of Stub-ee)	Matthew and Sarah Poggi (in memory of Rugby)	Susan Schwinger	Lorili Toth (in memory of Newt)	WNY Federation of Hunting Dog Clubs
Andrew Nadell	Jerome Pollitt	Rebecca Scroggins (in memory of Oscar)	Laura Trainor	Eileen Wolin
Paul Naintre (in memory of Elvis)	Michael J. Pulizotto	Larry Shackman	Mr. and Mrs. Brian Tureski	Edward Worden (in memory of P.K. and Rusty)
Jodi Nankof (in memory of Burt, Teddy, Poonie and Shamrock O'Malley)	Mr. and Mrs. Eugene Ray (in memory of Ansel)	Shames Family Foundation (in memory of Charlie Shames)	Mr. and Mrs. James Turner (in memory of Kodi and Misty)	William Young
Roberta Needleman (in honor of Igor)	Geraldine Rebeschler (in memory of Sara Jane)	Robert Shearer (in memory of Parker)	Mr. and Mrs. Paul Twining (in memory of Ajax, Max and Carolyn Maguire)	Wen Yuan
Mr. and Mrs. Steven Neitz	Janet and Frank Redl (in memory of Alexandria)	Gladys Sheil	David Tyrell (in memory of Jenny and Dr. Forest Davis)	Lois Zarembo (in memory of Whitby)
Marguerite Neuhaus	Reliable Temps (in memory of Bailey)	Shirwill Trim Shop	Unified Waste Consultants (in memory of Fluffy)	Debra Ziegler (in memory of Jazzy)
New Inn Kennels	Rebecca Renaud	Georgann Siano (in memory of Krystal and Aragorn)	Pete Valdata (in memory of Dudley)	Prof. and Mrs. Robert Zubaly (in honor of Richard P. Henry, DVM)
Mr. and Mrs. John Nicholl (in memory of Theresa and Khodi)	Mr. and Mrs. Peter Ricca (in memory of Mike and Holly)	Mr. and Mrs. Barry Silverstein (in memory of Cotton)	David Van Hart (in memory of Bailey)	<b>Friends</b>
Mr. and Mrs. Denton Nichols (in memory of Dusty)	Mr. and Mrs. Steven Richman (in memory of Missy and Sheba)	Fred Sindel (in memory of Babette)	Elizabeth Vantine	Ron and Mary Jane (in memory of Harry)
Mr. and Mrs. Kenneth Norwood (in memory of Casey, Susie, Angel and Gracie)	Sharlee and Guy Rodd (in memory of Sawyer and Flea)	Mr. and Mrs. Mark Slavinski (in memory of Charlie Brown)	Mr. and Mrs. Michael Vaughn (in memory of Jessie, Charlie, Emma and Randy)	Estelle and Phil Aaron (in memory of Katherine)
Mr. and Mrs. Robert O'Connell (in memory of Mabel)	Dr. and Mrs. George Roff	Mr. and Mrs. Thomas Small (in memory of Beluga, Chaz, Wicket, Lacey and Ariel)	Mr. and Mrs. Joseph Vellone (in memory of Friar Tuck and Nottingham)	Kim Abplanalp (in memory of Midnight and Chopper)
Mr. and Mrs. Ron Orr (in memory of Harry and Sebastian)	John Rose and Carolyn Pedone	Mr. and Mrs. Donald Smith (in memory of Max)	Mr. and Mrs. Bruce Vickers (in memory of Mo Pierre and Spencer)	Mr. and Mrs. Curtis Acton (in memory of Lexi)
Pacific Veterinary Center: Maria Castiglione (in memory of Taters, Jacob, Polly, Cowboy and Indian)	Dr. and Mrs. Richard Rosenberg (in honor of Bendel and Cooper)	Joseph Solda (in memory of Amber)	Mr. and Mrs. Joseph Vogl (in memory of Benjamin)	Gerald Adamski and Rachel Zweighaft
Joan Padilla (in memory of Frodo)	Lewis Rosenblum (in memory of Jealous Jelly)	Ron and Nanette Sorrentino (in honor of Dr. Paul Black)	Beate von Stutterheim (in memory of Dana)	Virginia Adcock (in memory of Ginger)
Mary Lou Paletta (in memory of Merri, Demi, Tassi, Sherlock, Watson, Boci, Tortsie, Ginger, Red, Sheba, Conan and Remy)	Mr. and Mrs. Eduardo Rostenberg (in memory of Nena)	Robert Speiser (in honor of Dr. Harold Zweighaft)	Mr. and Mrs. Robert Walin	Marie Adelmann (in memory of Duchess)
Dan and Christina Papes (in memory of AJ)	Kenneth and Jill Rotondo (in memory of Sophie)	Mr. and Mrs. Jim Stalzer	Dr. and Mrs. Jonathan Walker	Mort Adelson (in memory of Cleo)
Jerome Payton	Edward Rudolph	Marion Steinberg (in honor of Dr. Steve C. Feldman)	Mr. and Mrs. David Walowitz	Pat Adler (in memory of Humphrey and Prince)
Jane Peltier (in memory of Minnie)	Robert Rugeroni (in memory of Poppi)	Mr. and Mrs. Curtis Steinhour	Stephen Walter	Mr. and Mrs. Walter Afflitto (in memory of Morgan)
John Perfetti	Patricia Rühle (in memory of Katie)	Constance Stoddard (in memory of Mitzie)	Gerald Ward	Lyn Agresti (in memory of Max)
Eve Perkins-Mancino (in memory of Ayla)	Mr. and Mrs. Arthur Russ (in memory of Annabelle, Dudley, Teala, Belle, Shelby and Phantom)	John D. Stoner	Mr. and Mrs. Ronald Ward (in memory of Angus, Heather, Clyde, Bonnie and Charlie)	Aida Family (in memory of Maggie)
Virginia Perna (in memory of Sukie)	Mary Ann Ryan (in memory of Bella)	Mr. and Mrs. Mark Stroock	Mr. and Mrs. Frank Watson (in memory of Phoebe Reggio Wolff)	Aiello Family (in memory of Shana)
Erik Peterson (in memory of Jeebie and Marley)	Patricia Sackis (in memory of Shawnee)	Shanna Sullivan (in memory of Red)	F.M. Wehking (in memory of R.E. Wehking)	Ann Albrecht
David and Kelly Philbrick (in memory of Chloe)	Patricia Salerno (in memory of Teddy)	Mr. and Mrs. Peter Tarassoff (in memory of Doxie)	Mr. and Mrs. Stephen Weidman	Lyle Allan and Joanne Festa (in memory of Milo)
John Phillips (in memory of Luke, in honor of Reilly)	Sara and David Sanders	Mr. and Mrs. Charles Tarzian (in memory of Squeak)	Janet White	Jane Allen (in memory of Hannah, in honor of Lois Parker)
	Mr. and Mrs. Joseph Santamaria	Dr. and Mrs. Stanley Taub (in memory of Suzie Shu)	Richard Whitehouse (in memory of Henry)	Lynne Allen (in memory of Harley)
	Mr. and Mrs. Raymond Sassoon (in memory of Layla)	Diane Taylor	John Whiteman	Sigrid Allen (in memory of Stella Blue, Sam, Sucky, Miko and Mercury)
	Ann Marie Savaria (in memory of Sammy, Lucky and Precious)	Gene Terzano, Jr. (in memory of Ginger)	Bruce Widger	Susan Allen and Dan Corcoran (in memory of Do-nut)
		Margaret Theis (in memory of Tuffy)	Lynda and Timothy Williams	

Karen Allison and Elana Rich (in memory of Douglas De Carlo)

Mindy Aloff (in memory of Chitterling, in honor of Animal Kind Veterinary Hospital)

Lori Amatucci (in memory of George)

Mr. and Mrs. Edward Ammann (in memory of Buttons and Binky)

Betty Anderson (in memory of Shannon)

Douglas Anderson (in memory of Nimrod)

Anita Andrews (in memory of Bailey)

Laura Andrews (in memory of Dutch)

Michele Andrews (in memory of Toby)

John and Marsha Andzans (in memory of Tyson and Nike)

Mr. and Mrs. Leonard Annese (in memory of Brandy)

Virginia Anoli (in memory of Henry)

Richard and Diana Anthony (in memory of Jingles)

Mr. and Mrs. Ronald Apatoff (in memory of Guinness)

George and Karen Aposporos (in memory of Dylan and Bear)

Evelyn Arcabascio

Mr. and Mrs. Joseph Arcesi (in memory of Sierra)

Leslie Arluck (in memory of K.G.)

Joyce Arndt (in memory of Chase)

Robert Aronowitz (in memory of Moose)

Edith Asam (in memory of Charlie)

Sheldon Asman (in memory of Liberty)

Veronica Aston-Rickenbach (in memory of Joshua Tawny Rae)

Carol Atiyeh (in memory of Morgan)

Elaine Aubrey (in memory of Samantha)

David August (in honor of Dr. Christine Newman and Gilah)

Kathryn and Ted August (in memory of Daisy)

Terry Awtrey (in honor of Stephanie Goddard)

Ilya Babeck (in memory of Izzy)

Sylvia Bailey (in memory of Sandy and Frank)

Angela Baker (in memory of Moe)

John Baker (in memory of Penny)

Sherry-Anne Baker (in memory of Donnie and Holly)

James Ball (in memory of Butch)

Mr. and Mrs. Jeffrey Barbeau (in memory of Hunter)

Maxine Barber (in memory of Roxie)

Mr. and Mrs. Philip Barcomb (in memory of Herbert Bandemer, DVM)

Barbara Barthol (in memory of Barbara Bennett)

Diane Bartosik (in memory of Storm)

Richard and Robin Bascetta (in memory of Lily and Harry)

Susan Bass (in memory of Dolly and Kiwi)

Sharon Battistelli (in memory of Cindy and Coley)

Dr. and Mrs. Joshua Baum

Dr. and Mrs. Samuel Baum (in memory of Harley)

Mr. and Mrs. William Baum (in memory of Blackie)

Mr. and Mrs. James Baxter

Carole Bayer (in memory of Peaches)

Christopher Bean (in memory of Tanner)

Brian Beaudin

Dr. and Mrs. Ahmet Becene (in memory of Taz)

Kathy Beck (in memory of Jingles)

The Patricia P. Beck Revoc Living Trust (in memory of Maxie)

Laura Beckendorf (in memory of Pumpkin and Murphy)

Gloria Beckner (in memory of Mickey and Kosmo)

Susan Beecher (in memory of Riley)

Warren and Diana Behan (in memory of Muffin and Lucy)

Nina Bein

Carol Bell (in memory of Tess and Carmel)

Jill Bellanca (in memory of Hank and Judge)

Lisette Belli (in memory of Maggie Mae)

Steven Bellusci (in memory of Bogie)

Galen Benjamin (in memory of Rebel)

Lois Bennett (in memory of Cassidy)

Mr. and Mrs. Clifford Benson (in memory of Petee)

Kevin Benson (in memory of Max)

Jay Berch (in memory of Sammy)

Eric Bernabe (in memory of Butch)

Greg Bernhardt (in memory of Otto)

Harry Bernstein (in memory of Hyvan)

Karen Berson (in memory of Jeremiah and Rusty)

Linda Best (in memory of Bailey and Moet)

Kathleen Biastoff

Mr. and Mrs. Gregory Biddle (in memory of Gizmo)

Marianne Biondo and Cynthia Smith (in memory of Casey)

Mr. and Mrs. Thomas Bitter (in memory of Snickers, Ginger and Chelsea)

Francis Blanco

Pamela Blum and Richard Frumess (in memory of Jack and Sadie)

Carla Boatti (in memory of Patchuly and Suni Maria Ann)

Calvin Bobseine (in memory of Mo)

Michelle Bonomi-Huvala (in memory of Tasha)

JoAnn Bordeaux and Doug Whall (in memory of Kibbi)

Mr. and Mrs. Roger Bossert

Erica Bove (in memory of Jerry)

Bows and Bandana's Grooming Salon (in memory of P.J. Liistro)

Clara Bowman

Mr. and Mrs. Joseph Bracci (in memory of Irish)

Mr. and Mrs. Laurence Brassel (in memory of Gus and Taxi)

Henry Brauer (in memory of Buddy)

Mr. and Mrs. James Brennan (in memory of Fudgee)

Patricia Brew (in memory of Banjo and Corriander)

Joy Brewster (in memory of Cody)

James Bridges

Mr. and Mrs. Edwin Bright (in memory of Bright, Squire and Page)

Christine Brinnier (in memory of Smokey)

Jeffrey Brokob (in memory of Maverick)

Ruth Brooks (in memory of Arthur)

Gladys Broome (in memory of Sheba, Ram Sing and Belle)

Carol-Ann Brown (in memory of Bru)

Denise Adel Brown (in memory of Charme, Willow, Tiger, Kayla and Sparky)

Helen Brubaker

Doris Bryant

Mary Brytowski (in memory of Jim Kanealey)

Raymond Buck (in memory of Sneakers)

Larry Budion and Family

Debbie Buglisi (in memory of Cody)

Janet Bugosh (in memory of Corky and Shelby)

Elizabeth Bullock

Merry Bunting (in memory of Kelsey)

Mona Burger (in memory of Ebbie)

Gayle Burgess (in memory of Barbara Bennett)

Emil Burgos (in memory of Hopey)

Mr. and Mrs. Patrick Burke (in memory of Ace)

Alma Bush (in memory of Silkee)

Mr. and Mrs. William Bustard (in memory of Scooby)

Frederick Butler (in memory of Minnie)

Mr. and Mrs. John Caby (in memory of Budweiser)

Margie Caccida (in memory of Mercury and Missy)

Mr. and Mrs. Michael Cady (in memory of Kinickie)

Patricia Caine (in memory of Shelby)

Alyssa Calio (in memory of Debby Simon)

Mr. and Mrs. Ralph Calkin (in memory of Charlotte Lounsbury)

Carol Camelo

Gail Cameron (in memory of Henry)

Charlene Campbell

Mr. and Mrs. Kevin Campbell (in memory of Buddy)

Christopher and Suzanne Campese (in memory of Debby Simon)

Forrest and Bev Canepari (in memory of George)

William Canham

Mr. and Mrs. James Cannistra (in memory of Mackie and Howie)

Brenda Capacola (in memory of Miss Cotton)

Carl Cappadona

Mr. and Mrs. Donald Capra (in honor of Patsy and Peter Hollister)

John Capsouras (in memory of Sambucca)

Mr. and Mrs. Anthony Caria (in memory of Dillan)

Kim Carlisle (in memory of Bruno and Tucker)

Teresa Usher Carlson (in memory of Janie Jones)

Marie Carmardella (in memory of Spunker)

Terry Carpenter (in memory of Max)

Christa Carrington (in memory of Chelsea)

Mr. and Mrs. Walter Carroll (in memory of Barney)

Sheila Carroll (in memory of Dozer)

Mr. and Mrs. Richard Castrianni (in memory of Lucy)

Elizabeth Cauthers (in memory of Fluke)

Janet Celly (in memory of Snuggles)

Maryalice Chaifetz (in honor of Leela Noronha's research)

Mr. and Mrs. William Cheeseman (in memory of Jenny)

Mr. and Mrs. Patrick Chella (in honor of Dr. John Clauss)

Robert Chernoff (in honor of Kirby)

John Chико

Michele Childs

Dr. and Mrs. Sandy Christmus (in memory of Circe, in honor of Linda Harrison)

Natalie Churak (in memory of Molly Salovich)

Ann Ciampittello

Jo Ann Ciarocco (in memory of Keisha)

Jacqueline Cicale (in memory of Lucky)

Donna Ciccarella (in memory of Sly and Apollo)

Harold and Anne Marie Clark (in memory of Cooper)

Jay Clair (in memory of Mollie and Dollie)

James Clark  
 Jill Clark (in honor of Vikki LoMonaco)  
 Marilyn Clark (in memory of Pogo)  
 Mr. and Mrs. Terrence Clark  
 (in memory of Saba)  
 Mr. and Mrs. Donald Clarke  
 (in memory of Kiawah)  
 Mary Clawson (in memory of Gus)  
 Mr. and Mrs. Raymond Clayton  
 (in memory of Fairlane)  
 Dalena Clearwater  
 (in memory of Barbara Bennett)  
 Mr. and Mrs. William Clift  
 Mr. and Mrs. Marvin Clinch  
 Donna Clott (in memory of Cody, Mikki,  
 Bear and Taylor)  
 Jami Clott (in memory of Ellie and Ezra)  
 Mr. and Mrs. Donald Coager  
 (in memory of Jake and Fergie)  
 Betty Cochrane (in memory of Buddy)  
 Susan Cody (in memory of Spalding)  
 Mr. and Mrs. Martin Cohen  
 (in memory of Mollie)  
 Mr. and Mrs. Mark Cole  
 (in memory of Samantha)  
 Mr. and Mrs. Harold Colley  
 (in memory of Adolpho)  
 Mr. and Mrs. Robert Collins  
 (in memory of Nika)  
 Colonial Boarding Kennels: Paula  
 Fraczek (in memory of Babe, Cuddles,  
 Jack and Sable)  
 Patricia Como  
 (in memory of Maximillion)  
 Linda Conger  
 (in memory of Bubba and Chester)  
 Mr. and Mrs. Robert Conlin, Jr. (in honor  
 of Katonah-Bedford Vet Center)  
 Jim and Mallory Conlon  
 (in memory of Moe)  
 Jim and Maggie Connell  
 (in memory of Max)  
 Peggy Connors (in memory of Luna)  
 James Conroy (in memory of Bandit)  
 Anne Constantinople  
 (in honor of Dr. Martha Gearheart)  
 Mr. and Mrs. Oakleigh Cookingham  
 Patricia Cooper (in memory of Fluffy)

Elizabeth and Matthew Coradeschi  
 (in memory of Rex)  
 Ann Corcoran (in memory of Katy)  
 Mr. and Mrs. Vincent Cordo  
 (in memory of The Fonz)  
 Joseph Corio  
 Jill Corl (in memory of Max, Blue,  
 Aruba, Clancy and Lady)  
 Jeri Cornelison (in memory of Fat Girl)  
 Edith Cornelius  
 Mr. and Mrs. James Corrigan  
 (in memory of Trixie)  
 Caroline Costello  
 Herman Covi  
 Mr. and Mrs. Thomas Covino  
 (in memory of Kelsie)  
 Catherine Cranor (in memory of Augie)  
 Diane Craven (in memory of Bandit)  
 Joan Creeden (in memory of Katie)  
 Dolores and Jon Cripps  
 (in memory of Gracie)  
 David and Kathleen Crist  
 (in memory of Bandit and Scout)  
 Douglas Cromarty (in memory of  
 Rommel, Harley and Domino)  
 Mr. and Mrs. Cornelius Cronin  
 (in memory of Chloe, in honor of  
 Dr. Mark Wallach)  
 Jamie Crosby  
 (in honor of Angela Baldanza)  
 Kathleen Crossan (in memory of Razz)  
 Sharon Crumb (in memory of Justin)  
 Maureen Cullen (in memory of Jimie)  
 Betty Currier (in memory of Wicket)  
 Sandra and Ted Cury  
 (in memory of Lizzie)  
 Olga Cutler (in memory of Chip)  
 Catherine and Richard Cutler  
 (in memory of Taco and Diabolo)  
 Odette Czapliski (in memory of Hector)  
 Mr. and Mrs. Ronald Czekalski  
 (in memory of Ilsa, Angel and Patch)  
 Marcia D'Agostino  
 (in memory of Annabel)  
 Thomas D'Andrea (in memory of Bear)  
 Elinor D'Andrea (in memory of Heddy)  
 Mr. and Mrs. D'Angelo

Claire D'Arcangelo  
 (in memory of Jackson)  
 Mr. and Mrs. Elio D'Elia  
 (in memory of Buddy)  
 Antoinette Daab  
 (in memory of Bud and Taz)  
 Anthony Dalesandro  
 Annie Damiano  
 (in memory of Nelson and Sivi Von)  
 Diane Daniels (in memory of Flynn)  
 Alfred Darby and Edith Wislocki  
 Barbara Davenport  
 (in memory of Tom Radloff)  
 Jessica Davey (in memory of Bailey)  
 Susana Davidenko  
 (in memory of Magnum)  
 Mr. and Mrs. Norm Davis  
 (in memory of Jazee)  
 Priscilla Davis  
 Roxanna and Harry Davis  
 (in memory of Koosh)  
 Sandra Davis (in memory of Charlie)  
 Carol and Michael Dawley  
 (in memory of Bogie)  
 Shaunn Day (in memory of Shelby)  
 Christine De Maio (in memory of Tessie)  
 Mr. and Mrs. Christopher DeAngelis  
 (in memory of Brando)  
 Diane Decker (in memory of Norton)  
 Mr. and Mrs. Mark Deckett  
 (in memory of Kelsey)  
 Lois DeConca (in memory of Sam)  
 Dee and Dennis Deery (in memory of  
 Potter, Butch, Betsey and Boozer)  
 Carolyn DeGrand (in memory of Jasper,  
 Snowball and Macy)  
 Steve DeGrand (in memory of Leo)  
 John Del Grosso (in memory of Yoda)  
 Mr. and Mrs. Carl Delisi  
 (in memory of Nikki)  
 Marie DeLuca  
 (in memory of Chris and TJ)  
 Eileen DelVecchio (in memory of Max)  
 Susan Demarest (in memory of Norton)  
 Tiffany DeMartin (in memory of Abby)  
 Diane Dembiec (in memory of Gucci)  
 Maryann Dennehy (in memory of Greta)  
 Sybille Denninger (in memory of Pedro)

Mr. and Mrs. Harold Dennis  
 (in memory of Simond and MyTie)  
 Mr. and Mrs. Thomas DeRue  
 (in memory of Tamara Jayne)  
 Mr. and Mrs. Joseph DeSaro  
 (in memory of Ralph)  
 Mr. and Mrs. Marty Desatnik  
 (in memory of Drummer, in honor of  
 Dr. Robert Weiner)  
 Elizabeth Devaney  
 Mr. and Mrs. Theodore Dick  
 Barbara Dille (in memory of Dusty)  
 Mr. and Mrs. Everett Dillon  
 (in memory of Copper)  
 Marie Dion (in memory of Bebe,  
 Spooks, Pebbles and Louie)  
 Thomas DiSalvo  
 (in memory of Sable and Scooby)  
 Paul Dise (in memory of Vixie)  
 Cheryl Dittmer  
 (in memory of Barbara Bennett)  
 Mr. and Mrs. Anthony Divincenzo  
 (in memory of Tippy)  
 Betty Dixon (in memory of Casey)  
 Sandra Dobbins  
 Kit Donnellan  
 (in memory of Buck and Misty)  
 Maureen Donovan  
 (in memory of Ruger and Malcolm)  
 Robert Dowd (in memory of Daisy)  
 George and Donna Downs  
 (in memory of Shadow)  
 Donald Dreher  
 Helene and Jerry Dreskin  
 (in memory of Lucky)  
 Stacy and Duane Dressen  
 (in memory of Louie)  
 Roberta Drew (in memory of Doogie)  
 Virginia Dreyfus (in memory of Linda  
 Handford and Lois Hallmark)  
 Joseph Driskill (in memory of Toby)  
 Leonard Dryer (in memory of Cody)  
 Mr. and Mrs. William Duggan  
 (in memory of Tim)  
 Margaret Duque  
 Lisa Duquette (in memory of Betsy)  
 Mr. and Mrs. Russell Duvernoy  
 Karen and Wayne Dyer  
 (in honor of Peter and Patsy Hollister)

## Charitable Bequests— The Baker Institute in your Will

By making a charitable bequest, you help support our research in animal health for future generations of pet owners. If you are interested in including the Baker Institute in your long-term charitable giving, we can assist with the appropriate language for your will. You may designate funds for a specific program, or you may leave unrestricted funds to be used in the area of greatest need.

A specific bequest involves donating a set amount or percentage of assets from your estate to Cornell University the Baker Institute. Residual bequests are left to the Baker Institute after all debts, expenses, and taxes have been paid from the estate.

For more information about bequests, trusts or annuities that pay you income, then benefit the Baker Institute, and the tax advantages of planned gifts, please contact Lynne Williams, Director of Development and Public Affairs, at 607-256-5645 or [lsw12@cornell.edu](mailto:lsw12@cornell.edu).





## Foundations

The Albert C. Bostwick Foundation  
 Burroughs Wellcome Fund  
 Butler Family Foundation  
 Collie Club of America Foundation  
 Community Foundation of South Georgia  
 Cornell Feline Health Center  
 Richard A. Cusano Memorial Fund  
 The Strachan & Vivian Donnelley Foundation  
 Firman Fund  
 The Foundation Fighting Blindness  
 Peter J. Frenkel Foundation  
 The Greater Milwaukee Foundation Corp.: Steven S. Lindsay Memorial Fund  
 The Shirley W. and William L. Griffin Foundation  
 The Dorothy Russell Havemeyer Foundation, Inc.  
 James A. Macdonald Foundation  
 Sharon Lee MacDonald Charitable Trust  
 Morris Animal Foundation  
 Pfizer Animal Health  
 James B. Richardson Trust  
 Shames Family Foundation  
 Sloane Family Foundation  
 The Suwinski Family Foundation  
 The David and Sylvia Teitelbaum Fund  
 Eugene V. and Clare E. Thaw Charitable Trust  
 Zweig Memorial Fund

Jane Dygert (in memory of BeBe, Carmel, Jerry, Bridget and Sammy)  
 Mr. and Mrs. Michael Eastman (in memory of Cody)  
 Rose and Don Eastman (in memory of Missy)  
 Cleon Easton  
 Mr. and Mrs. Richard Ecklund (in memory of Sable)  
 Mr. and Mrs. Ken Eckstein (in memory of Tina)  
 Phyllis Edwards (in memory of Barbara Bennett)  
 Mr. and Mrs. John Egan  
 Mr. and Mrs. John Eggener (in memory of Bella)  
 Mr. and Mrs. Steve Echin (in memory of Philip Tully)  
 Jeannet and Bob Eiermann (in memory of Rosie)  
 Mr. and Mrs. Myron Eisner  
 Elizabeth Ellis (in memory of Rosie)  
 Mr. and Mrs. Jerre Epps (in memory of Duke and Duchess)  
 Timothy Eskeli (in memory of Doc and Diddle)  
 Carol Esposito (in memory of Lizzie)  
 Mr. and Mrs. Edward Esstman (in memory of Daisey)  
 Jeanne Estep (in memory of Barbara Bennett)  
 Mr. and Mrs. John Ettore (in memory of Toby and Bear)  
 Mr. and Mrs. Robert Evans (in memory of Barbara Bennett)  
 Mr. and Mrs. Fred Faber, Jr. (in honor of Timmy)  
 Anna Marie Falzo (in memory of Lucky)  
 Mr. and Mrs. Dennis Farrelly (in memory of Mikey)  
 Tony Fasano (in memory of Buck)  
 Faye Fayerman (in memory of Katy and Esmeralda)  
 Jean Feckanicz (in memory of Reno)  
 Janet Fein-Schaffer (in memory of Nikki and Quincy)  
 Mr. and Mrs. Gary Fellers (in memory of Merlin and Gryphon)  
 Marianne Feraca (in memory of Hans Rea)

Dr. and Mrs. Jonathan Ferencz (in memory of Emerson and Mostro)  
 Pamela Ferguson (in memory of Ashley and Bob)  
 Teri and Jamie Ferguson (in memory of Dakota and Sprinter)  
 Barbara Fidanza (in memory of Barney, Buckwheat and Pumpkin)  
 Devon and Seth Fikes (in memory of Seneca)  
 Christine Filipski (in memory of Porsche and Ava)  
 Mary Fine (in memory of Folly and Buddy)  
 Suellen Finnegan (in memory of Jessie, Missy, Max and Harley)  
 Mr. and Mrs. Fred Fioriello (in memory of Mickey)  
 Jutta Firat (in memory of Debby Simon)  
 Gail Fisher (in memory of Sarah)  
 Marie Fisher (in memory of Bill Bailey)  
 Mr. and Mrs. Blaine Fitch (in memory of Boots)  
 Mr. and Mrs. Walter Fitzgerald  
 Joyce Fitzmaurice (in memory of Maggie Mae)  
 Stephanie Fitzpatrick (in memory of Lucy)  
 David Flitner (in memory of Breadie)  
 Mr. and Mrs. Christopher Flynn (in memory of Hazel)  
 Eileen Flynn (in memory of Midnight)  
 Robert and Victoria Forbes (in memory of Kodybear)  
 Ken and Rosemarie Ford (in memory of Dakota and Trigger)  
 Suzanne and John Ford (in memory of Tess)  
 Tim Forman (in memory of Freddie)  
 Maureen Forte and Lisa Motter (in honor of Thunder)  
 Dr. and Mrs. Wayne Fowles (in memory of Sheba)  
 Lori Francett (in memory of Molly)  
 Mr. and Mrs. Fred Franke (in honor of Dr. Howard Rothstein)  
 Roseann Franzini (in memory of Shadow)  
 Alfred and Frances Frattini  
 Richard Frazier (in memory of Tao)

Robert Frederick (in memory of Spuds)  
 Nancy Freeborough (in memory of Peaches)  
 Jan Freeman (in memory of Stacy, Spike and Hunter)  
 Kristin Freer (in memory of Riley)  
 Karen Freilich  
 Lynne Friedlin (in memory of Sweeney)  
 Fran Friedman (in memory of Lady)  
 Mr. and Mrs. Gerald Fritsch (in memory of Bear, Bandit and Shelby)  
 Peggy Fritz  
 Phyllis Fultz (in memory of Barbara Bennett)  
 Betty Furman  
 Betty Ann Fusco (in memory of Ally)  
 Jack and Jeannette Gabosch (in memory of Samantha Louise, Little Ted and Wally)  
 Mr. and Mrs. Ralph Gaetano (in memory of Casey)  
 Mr. and Mrs. Robert Gagner (in memory of Ziggy and Jeeters)  
 Sylvia Galvan (in memory of Taylor and Sancho)  
 Frances Ganter (in memory of Shealob)  
 Susan Garnier and Lisa Glick (in memory of Buddy)  
 Elizabeth Gaughran (in memory of Peanut and Bailey)  
 Steffi Gavin (in memory of Lucy)  
 Lori Gensler (in memory of Jinx)  
 Mr. and Mrs. John Gentile (in memory of Casey)  
 Sydelle Gerber  
 Mr. and Mrs. Wesley Gerechka (in memory of Stella LoSardo)  
 Jo Ann Gesvantner (in honor of Jeffersonville Animal Hospital)  
 Michele Giardini (in memory of Julius, Rocky and Roxanne)  
 Christine Gibbons (in memory of Bailey)  
 Lynn Gibbs (in memory of Cody)  
 Carol Gillispie (in memory of Tippy)  
 Mr. and Mrs. John Gilmore (in memory of Barbara Bennett)  
 Susan Ginsburg (in memory of Beau)  
 Mr. and Mrs. Sam Girardi (in memory of Colton)

Richard Girards (in memory of Sammy Baker)  
 Betty and Arnold Gitlin (in memory of Harbin)  
 Robyn Glaser and Arnold Razumny (in memory of Betty)  
 Alona Glaz (in memory of Oscar)  
 Mary Gleason (in memory of Spike)  
 Mr. and Mrs. Mark Goheen (in memory of Zak)  
 Mr. and Mrs. Jeffery Goldberg (in memory of Mandy, Pompeii and Handy)  
 Richard Goldberg (in memory of Muggsy)  
 Rita Golden (in memory of Gabby)  
 Mr. and Mrs. Harold Goldman (in honor of Suzie-Q)  
 Amy Goldstein (in memory of Cameo)  
 Carol Goldstein (in memory of Carrot Top)  
 Mr. and Mrs. Eugene Goldwasser (in memory of Casey and Penny)  
 Mr. and Mrs. William Goodhue (in memory of Belle)  
 Kim Goppert (in memory of Buddy)  
 Victoria Gotto (in memory of Boots and Buddy)  
 Bonnie Gould (in memory of Max)  
 Mr. and Mrs. William Gozemba (in memory of Sassy)  
 Daniel Grabel (in memory of Sable and Cheyenne)  
 Mr. and Mrs. Walter Grambow (in memory of Scamper and Sammy)  
 Nancy Granger (in memory of Missy)  
 Patricia Grassi  
 Hershel Graubart (in memory of Max)  
 Angelina Greco (in memory of Peno and Rocky)  
 Kristen and Michael Green (in memory of Norm)  
 Martha and Tom Greenlee (in memory of Sam and Marty)  
 Martha Greenlee (in memory of Marty)  
 Susan Gregory and Judy Velletri (in memory of Gidget)  
 Donald and Serena Griffey (in memory of Happy)  
 Mr. and Mrs. Brian Griffin (in memory of Sadie)



Mr. and Mrs. Philip Griffith	Shirley Hayden (in memory of Winston and Nick)	Mr. and Mrs. Keith Hoffman (in memory of Ladie)	Irene Jeyowski (in memory of Leo Jeyowski)	Patsy Kei (in honor of Dr. Pamela Dumont)
Mr. and Mrs. David Grimaldi (in memory of Ralphie)	Tom and Grace Hayes (in memory of Newt, Cub, Leia and Nutmeg)	Jerry Hoffman	Shelly Johannessen (in memory of Frankie and Magnolia Blues Addison)	Dr. and Mrs. Joel Keilson (in memory of Howard)
Mr. and Mrs. Raoul Grossi (in memory of Morgan and Reggie)	Mr. and Mrs. David Head (in memory of Millie)	Walter Hoffman	Bob and Sandy Johnson (in memory of Jake)	Cindy Keith (in memory of Barbara Bennett)
Mr. and Mrs. Martin Gruber (in memory of Sam Hart)	Jodi Head (in memory of Molly)	Marie Holko (in memory of Pookie Holko and Kumo Guinta)	Mr. and Mrs. Everett Johnson (in memory of Cho Cho)	Mr. and Mrs. Richard Keller (in memory of Buster)
Alfred Gruhler (in memory of Gussie and Goldie)	Lois Head (in memory of Hans)	Julie Holland (in memory of Rusty)	Janice Johnson (in memory of Barbara Bennett)	Lois Kelley (in memory of Rolle)
Dr. and Mrs. Gordon Grundy	Anne Healey (in memory of Loretto Goulet)	Mr. and Mrs. Carl Holland (in memory of Franzi)	Marion Johnson (in memory of Wings)	Lucia Kerr (in memory of Diana)
Kathy Guissi (in memory of Asta)	Mr. and Mrs. Michael Healy (in memory of Pery and Tanner)	Marilyn Hollenbeck (in memory of Midnight)	Mr. and Mrs. Robert Johnson (in memory of Hudson)	Lillian Keyes (in memory of Coltrane and Dizzy)
Anita Gurge (in honor of Bailey)	Mr. and Mrs. Jerry Hedrick (in memory of Barbara Bennett)	JoAnn Holmes (in memory of Shadow)	Sandra Johnson (in memory of Leto)	Sharon Kiefer (in memory of Parker)
Mr. and Mrs. Bob Gurka (in memory of Bill and Diamond)	Janet Heinis	Susan Holmes (in memory of Parker)	Christine Johnston (in memory of Snoops and Louise)	Joan Kincy (in honor of Daisy)
Mr. and Mrs. John Hackett (in memory of Kоди)	David Helfant	Mr. and Mrs. Robert Hommel (in memory of Sasha, Muffin, Heidi, Odine and Sandy)	Sharon Julien (in memory of Zara)	Jane King (in memory of Jane Doe)
Dr. and Mrs. George Hahn (in memory of Eppie, Brownie and Casey)	Scott Hemenway	Therese Hopper (in memory of Puddin')	Donna Jungenberg (in memory of Katy)	Mr. and Mrs. Lawrence King (in memory of Mollie)
Doreen Haiduk (in memory of Romeo)	Mr. and Mrs. Robert Henckel (in memory of Sunny)	Joan Horak (in memory of Caleb)	Lucille Kaiser (in memory of Nellie)	Barbara Kingsborough and Robert Beringer (in memory of Serendipity)
Mr. and Mrs. William Hake (in memory of Tobie)	Deb Hendrickson and Pete Atwater (in memory of Jake)	Stephen Horecky (in memory of Cory)	Andrew Kalter (in memory of Molly)	Marilyn Kipple
Barbara Haley (in memory of Abby)	Mr. and Mrs. Craig Henrikson (in memory of Argus)	John Hornyak	Joyce Kamanitz and Thomas Feldman (in memory of Daisy)	Pamela Kirk and John Violette (in memory of Finnie)
Mr. and Mrs. Michael Hall (in memory of Lola)	Nicole Herbert (in memory of Guinness)	Mr. and Mrs. Jan Horowitz (in memory of Fred)	Myrna Kampner (in memory of Zemoria)	Peter Kirk
Carol Halpern (in memory of Beaty)	Mr. and Mrs. Joe Herman (in memory of Roxie)	Horse Pharm International: John Miller (in memory of Pepe)	Laura Kaplan (in memory of Charlie)	Ian Klassen (in memory of Spirit)
Mr. and Mrs. Jim Halter (in memory of Darrell M. Zazen)	Phoebe Herman (in memory of Zoe)	Amy Houbre (in memory of Webster)	Ann and Andrew Karmin (in memory of Bailey)	Edith Klein (in memory of Oberon)
Ann and Doug Hammes (in memory of Little Dog and Big Dog)	Cathrine Herndon (in memory of Mandy)	Mr. and Mrs. David Houser (in memory of Emmitt)	Mr. and Mrs. Martin Karpenski (in memory of Jake)	Mr. and Mrs. Donald Kling (in memory of Alex)
Candace Berman Haney and Richard Haney (in memory of Gunther)	Dorothy Hess (in memory of Cosmo)	Susan Howard (in memory of Portia)	Mr. and Mrs. Joseph Kasten (in honor of Bruce and Joan Behrend)	Marianne Klotz (in memory of O.B.)
Mr. and Mrs. Jeffrey Harrigan (in memory of Max)	Mr. and Mrs. William Hess	Hudson Valley Boundaries, Dogwatch (in memory of Kayla)	David Kaufman (in memory of Polo)	Mr. and Mrs. Jan Knepshield (in memory of Cody and Bear)
Mr. and Mrs. Carl Harris (in memory of Frederick)	Mr. and Mrs. Gregor Hetzel (in honor of Ruth Lee Brooks)	Linda Hulse	Mr. and Mrs. Michael Kaufman (in memory of Brooklyn)	Mr. and Mrs. Robert Korabik (in memory of Jeannie)
Karen Harris (in memory of Betty and Ruby)	Fran Hicks and Chris Manfredo (in memory of Murphy-Buddha Boy)	Mr. and Mrs. Richard Hunt (in memory of Beau Bo)	William and Linda Kay	Marian Korosec (in memory of Sassy)
Mr. and Mrs. William Harris (in memory of Cole, Crystal and Blondie Girl)	Janet Higgins (in memory of Alex and Patrick)	Nadine Hunter (in memory of Maxi and Hunter)	Steve Kayser (in memory of Bosco)	Audrey Kotas
Jill Harsin (in memory of Annie and Gretchen)	Lynn Higgins (in memory of Bumper)	Rita Hussey (in memory of McKenna)	Carla Kazanjian (in memory of Spring, Maxwell and Ronan)	Susan Kovach
Sean and Teresa Hart (in memory of Winslow)	Drew Hildebrand (in memory of Millie Beatrix)	Mr. and Mrs. Pete Hutto (in memory of Jake and Norton)	Tom and Carol Kazmark (in memory of Molly)	Andree Kozaczek (in memory of Debby Simon)
Jacquelyn Harvey (in memory of Duke)	Elizabeth Hillwig	Renee Idone (in memory of Junior)	Christopher Kearney (in memory of Bustopher)	Mr. and Mrs. Gary Kraft (in memory of Reese)
Doris Hattin (in memory of Ping)	Dianne Hinaris (in memory of Cooper)	Stefan Ilnitzki (in memory of Lenny)	Mr. and Mrs. Charles Keast (in memory of Shiloh)	Mr. and Mrs. Robert Kramer (in memory of Priscilla Irwin, DVM)
Dorothy Hatton and Ann Fitzgibbon (in memory of Rascal, in honor of Dr. Mark Masucci)	Helen Hinchcliffe	Barbara Isenberg (in memory of Magic)	Honor Keegan (in memory of Marco)	Irma Krell (in memory of Lady)
Dorothy Hauk (in memory of Helga)	Gil Hint (in memory of Xena)	Pamela Jacques and Bill Galpin (in memory of Gertie)	John Keegan	Joanne and Steve Kril (in memory of Jake and Chelsea)
Susan Hauser	Klaus Hirsch (in memory of Aly)	Susan Jahnke (in memory of Fergie)	Wayne and Jacqui Keen (in memory of Leo)	Tracy Kroll (in memory of Peanut and Boomer)
	Joan Hirsch (in memory of Soli)	Albina Janus (in memory of Archie)	Patrice Keenaghan (in memory of Jill and Spanky)	Maryanne Krzewicki (in memory of Polo)
	Roslyn Hirst (in memory of Ruby)	Mr. and Mrs. Peter Janus (in memory of Archie)		A. Kumschick (in memory of Lara)
	George Hiza	Mr. and Mrs. Donald Jayson (in memory of Lacey)		

Agnes La Corte (in memory of Lucky)	Mr. and Mrs. Jerome Liebowitz	Kevin Mahaney (in memory of Edward)	Cheryl Matteson (in memory of Shana)	Elizabeth Mercer (in memory of Snowflake)
Constance La Forgia (in memory of Sasha and Nickolaus)	Mark Lieto (in memory of Lucky)	Kathleen and Francis Mahodil (in memory of Sirius and Buddie)	Barbara Matura	Mr. and Mrs. John Mercurio (in memory of Barbara Bennett)
Stephen Labate (in memory of Cisco)	Linda Liller (in memory of George, Smokey and Jaguar)	Ryan Mahoney (in memory of Rascal)	Linda and John Mauck (in memory of Dutch Chocolate)	Owen Messenger (in memory of Copper)
Mr. and Mrs. Joseph Lacerda	Victoria Lillicrapp (in memory of Scout)	Dorothea Maibaum	Carol Mawn (in memory of Lizzie)	Amee Messina (in memory of Prissy)
Dolores LaFontaine (in memory of Brooke and Seal)	Wendy Lindblom (in memory of Brandy, Peaches, Bailey and Jilly)	Mr. and Mrs. Henry Majewski (in memory of Pride and Colette)	Terry Maxfield	Mr. and Mrs. Robert Metzdorf (in memory of Ruba)
Irene and Wayne LaHullier (in memory of Dennis and Schnitzie)	Jami Linehan (in memory of Jake)	Mona Malanga	Jack May	Mr. and Mrs. Phil Meunier
Lorraine Laken (in memory of Maggie)	Cheryl Lines (in memory of BJ)	Mr. and Mrs. Jerry Malett (in memory of Maxx)	Mr. and Mrs. James Maynard (in memory of Mason)	Mr. and Mrs. Robert Meunier (in memory of Mao)
Jack Lambert (in memory of Jazz and Badger)	Virginia Lippa (in honor of Dr. Borzio and Dr. Salemine)	Brenda Maloney (in memory of Leo)	Judith Mazurkiewicz (in memory of Kerry and Piper)	Richard Meyer (in memory of Cody)
Alisa Landry (in memory of T Boy)	Barbara C. Lippe (in memory of Angus)	Evelyn Manca (in memory of Maxie)	Megan Mazzulli (in memory of Bo-bo)	Dr. and Mrs. Frederick Meyerowitz (in memory of Bruno)
Mr. and Mrs. Richard Landry (in memory of Guffey)	Mr. and Mrs. Richard Lisk (in honor of Dr. Howard Rothstein)	Louis Mancuso (in memory of Tippy III)	Robert McAllister	Mid-States Stock Dog Association (in memory of Barbara Bennett)
Betsy Landsman (in memory of Cody, Wilson and Denise Decco)	Patricia Lisowski (in memory of Caesar)	Mr. and Mrs. Stephen Mandato (in memory of Joshi)	Marlene McBrier	Barbara Miles (in memory of Uzi and Quincy)
Carol Lantiegne (in memory of Elle)	Marsha and Merv Lloyd (in memory of Vanessa)	Frances Mandel (in memory of Molly)	Maria McCaffrey	Mr. and Mrs. Randy Miles (in memory of Brody, Max and Bubba)
Barbara Larson (in memory of Bandit)	Marianne Loffredo (in memory of Charlie Brown)	Kerri and Frank Maner (in memory of Hudson)	Elizabeth McCarter (in memory of Marky)	Gina Militello (in memory of Tyson)
Eric Laubmeier	Stephanie Londrigan (in memory of Lady and Samantha)	Mr. and Mrs. Mark Manfresca (in memory of Lizzie)	Pamela McCarter (in memory of Toby)	Don, Donna and Cassie Miller (in memory of Lucy)
Jayne Le Roux (in memory of Buddy Boy)	Lone Pine Kennel: Phyllis Roitsch (in memory of George and Charley)	Mr. and Mrs. Michael Mangano (in memory of Nugget and Crystal)	Diane and John McCarthy (in memory of Dallas)	Don and Joan Miller (in memory of Molly)
Mr. and Mrs. Richard Lechler (in memory of Tasha)	Louise Lopez	Mr. and Mrs. Robert Mara (in memory of Duke of Mara)	Gary McCarthy (in memory of Stone Ridge Seabee)	Jane Miller (in memory of Edward)
Cheryl Lee and Claire Anne Stefanucci (in memory of Bud and Bucca)	Mr. and Mrs. Herb Loughery (in memory of Harley and Moe)	Stacey Marchak (in memory of Blackie)	Robert McCarthy (in memory of Killian)	Joanne Miller (in memory of Muffin)
Rosanna Lee (in honor of Angela Baldanza)	Mr. and Mrs. William Lovelett (in memory of Cherry)	William and Emmanuel Marchak (in memory of Maddy, Sheeba, Sparky, Mrs. Lester Miller and Dierdre Maher)	Edith McCormick	Dr. and Mrs. Keith Miller (in memory of Echo)
Mr. and Mrs. Joseph Lefebvre (in memory of Trouble)	Leslie Lowenthal (in memory of Balanchine and Dante)	Peter Marcus (in memory of Rudy and Mandy)	Susan McDaniel (in memory of Duncan and Baby)	Leah Miller (in memory of Lady)
Pepi Leids (in memory of Chip, Ezra, Dakota, Benny and Bailey)	Dr. and Mrs. Harold Ludman (in memory of Opie and Ginko)	Marilyn Marino (in memory of Arlene James)	Janice McDonald (in memory of Sweet Pea and Norman Dashefsky)	Marcia Miller (in honor of Dr. James Burns and Staff)
Frank Lelonek (in memory of Muffin)	Barbara Lukas (in memory of Matilda)	Kimberly Marrese (in memory of Sherman)	Linda and Jim McGlen (in honor of Diane and Jerry Bluff)	Marian Miller
Dr. and Mrs. Richard Lennon (in memory of Nicki)	Taasha Lundy (in memory of Zoli Bett and Cosmo Kramer)	Charles Marshall (in memory of Archie)	Elizabeth McGrade (in memory of Polly)	Suzanne Miller
Carolyn Lesseos	Glenna Lunn (in memory of Jealousy)	Karen Mason (in memory of Yelrah)	Mr. and Mrs. William Mckinzie (in memory of Barbara Bennett)	Kathleen Mills (in memory of Riven)
Donald Levin (in memory of Lady)	Adrienne Lustig	George and Karen Massorotti (in memory of Taylor)	Jeanine McLaughlin (in memory of Nicke)	Sharon Mills (in memory of Fergie)
Susan and Gary Levine (in honor of Judy and Fred Wilpon)	Mr. and Mrs. Kevin Lynch (in memory of Buffy, Molly and PJ)	Mr. and Mrs. Allen Mastandrea (in memory of Maggie, Hildy and Sandy)	Lisa McNeece	Mr. and Mrs. Elliot Mininberg (in memory of Easy)
Linda Levins (in memory of Chloe, in honor of John and Terry Kiernan)	Marjorie MacAllister (in memory of Gizmo)	Mr. and Mrs. Stephen Mastrapasqua (in memory of Pucky)	Maureen McShane (in memory of Joe)	Risa Mish (in honor of Lynne Williams)
Robert Lewandowski (in memory of Morgan)	Annie Mack (in memory of Barnum)	Mr. and Mrs. Richard Mastroianni (in memory of Duncan and Brandy Lee)	John McSweeney (in memory of Buck)	Mae Marie Modifica (in memory of Axel)
Mr. and Mrs. Ted Lewinski (in memory of Marie Sarro)	Angela and David Mackintosh (in memory of Cameo)	Mr. and Mrs. James Matala (in memory of Kasey and Libby)	Mr. and Mrs. Ernest Melander (in memory of Cindy)	Julie Moews (in memory of Kirby)
Barbara Lewis (in memory of Alki)	Thomas Mackowiak (in memory of Lucky Morgan)	Jean Matala (in memory of Libby and Kasey)	Irene Melander (in memory of Sam)	Mr. and Mrs. Kevin Mogan (in memory of Dusty)
Rita Lewis (in memory of Bess, Ruby, Taffy and Max)	Mr. and Mrs. Rod MacNeil (in memory of Phoenix)	Lolita Matczynski (in memory of Baby)	Mr. and Mrs. Michael Melerski (in memory of Kiley Henry and Maggie)	Diane Mogavero (in memory of Rosie)
Phyllis Licari (in memory of Harley)	Mr. and Mrs. Eric Madura (in memory of Henry Guerin)		Darlene Melville (in memory of Miguel)	Mr. and Mrs. Terry Monahan (in memory of Shadow)
			Barbara Mendelson (in memory of Ronan)	Angela Mondelli (in memory of Shelby)
			Mr. and Mrs. Ricardo Menendez (in memory of Snoopy)	

Barbara Mongelut  
(in memory of Precious)

Mr. and Mrs. John Montgomery  
(in memory of Jake)

Jane Moore (in memory of Moiseylein)

Karen Moore (in memory of Makita)

Judy Moran (in memory of Tara)

Mr. and Mrs. Michael Moretti  
(in memory of Marilyn)

Joann and Gene Moroz  
(in memory of Chestnut)

Mary June Morrell  
(in memory of Rufus and Daisy)

Judith Morrison (in memory of Jolie)

Stanley Morytko, Jr.

Mr. and Mrs. Robert Moulder

Mr. and Mrs. John Mueller  
(in memory of Pookie)

Dr. and Mrs. Michael Mulshine  
(in memory of Remy)

Mr. and Mrs. George Mulvaney  
(in memory of Max)

Mr. and Mrs. Robert Murphy  
(in memory of Buffy)

Ann Marie Murray

Ann Murray (in memory of  
Mr. and Mrs. Henry Romeo)

Helen Murray (in memory of Gracie)

Mary and John Murray  
(in memory of Bear)

Theresa Murray (in memory of Kelsie)

Mr. and Mrs. Ronald Muto  
(in memory of Taz and Sam)

Candy and John Myers  
(in memory of Tippy)

Judy Myers (in memory of Dakota)

Charles Nardino  
(in memory of Buster and Bridget)

Sandra Nardone

Mr. and Mrs. Elby Nash  
(in memory of Max)

Katherine Nathan

Mr. and Mrs. Robert Nelson  
(in memory of Bruno and Cocoa)

Karen Nenni-Quaranto  
(in memory of Missy)

Jeannette and Paul Neveu  
(in memory of Nana)

Mr. and Mrs. Michael Newler  
(in memory of Allie, Maverick, Rico  
and Kansas)

Mary Jane Newler  
(in memory of Cameo)

Mr. and Mrs. Peter Nichols

Mr. and Mrs. Ronald Nickerson  
(in memory of Belle)

Mr. and Mrs. Richard Noe  
(in memory of Tipper)

Lisa Noel (in memory of Althea)

Karen Nolan (in memory of Natasha)

Mr. and Mrs. Edward Norman

Mr. and Mrs. Michael Norman  
(in memory of Virginia Allen)

Mitchell Novick  
(in memory of Frosty and Tawny)

Leonard Nowak (in memory of Teddy #  
2 & Teddy #3)

Mark Nye (in memory of Brewster)

Paula and Sean O'Brien (in memory of  
Simba)

Karen O'Connell (in memory of Happy)

Mr. and Mrs. Ray O'Connor (in memory  
of Elmo and Bailey)

Timothy O'Connor (in memory of  
Chaka and Via)

Mr. and Mrs. Patrick O'Farrell (in  
memory of Juliette)

Christine O'Rourke (in memory of Felix)

Christine O'Shea (in memory of Hunter)

Mr. and Mrs. Timothy Oakes (in memory  
of Sage)

Emily Obern (in memory of Chulo)

Patricia Offerman (in memory of  
Peaches)

Mr. and Mrs. Lyle Ondayko (in memory  
of Roxy, Elsa, Duncan and Chase)

Eleanor Opolinsky (in memory of Riva)

Emily Orben (in memory of Chulo)

Judy Orena (in memory of Peanuts)

Robert Ortman

Arthur Osborne (in memory of Ozzie)

Mr. and Mrs. Larry Osterberg (in  
memory of Gucci and Magic)

Sandra Oteri (in memory of Pogie)

Jill Otto (in memory of Stache)

Robert and Bernadette Outwater (in  
memory of Emily Belle)

Rita Oyola

Mr. and Mrs. Joseph Paczosa (in  
memory of Candy Kiss)

Kathleen Paine (in memory of Willie, in  
honor of Bridgette)

Mr. and Mrs. Robert Palazzolo (in  
memory of Jake)

Patricia Pargament (in memory of  
Venus)

Jean Parker (in memory of Sierra)

M. Jean Parker  
(in memory of Clementine, Patch,  
Magee and Jack Gunning)

Nancy Paschke and Mary Durlak  
(in memory of Maxwell)

Mr. and Mrs. Frances Passafaro  
(in memory of Sandy, in honor of  
Dr. Mandarino and staff of Park Ridge  
Animal Hospital)

Belgica Pastrana

Holly Patrick  
(in memory of Loretto Ann Goulet)

Natalie Patrico  
(in memory of Pee Wee and Gin)

Susanne Patunas (in memory of Byron)

Shirley Paul  
(in memory of Barbara Bennett)

Serafino Pavone

Karen Paxton (in memory of Cindy)

Mr. and Mrs. Henry Pedersen  
(in memory of Honey)

Claire Pelle  
(in memory of Sassy and Cassie)

Ann Marie Pember

Mercedes Penalver  
(in memory of Mr. Bungle)

Susan Penny (in memory of Jazzy)

Diane Perazzo (in memory of Mushu)

Noelle Perry (in memory of Dozer)

Francis Person, Jr.  
(in memory of Angus, Starr and Jesse)

Claudine Peters (in memory of Droopy)

Mr. and Mrs. Gary Petersen  
(in memory of Maggie)

Louise Phillips  
(in memory of Miss Ashley)

Carol and Fernando Picorelli  
(in memory of Bear Paws)

Ron and Pat Pilling (in memory of Blaze)

Mr. and Mrs. Roy Pisetsky  
(in memory of JoJo)

Mr. and Mrs. Kenneth Pitre  
(in memory of Sadie)

Edward Platt (in honor of Scruffy)

Dr. and Mrs. Paul Podell  
(in memory of Bear)

Melanie and Keith Poirier  
(in memory of Michael McDowell Smith)

Janine and Marlene Polito  
(in memory of Maxwell Pieri)

Mr. and Mrs. Arthur Pollinger  
(in memory of Kodi and Cinnamon)

Russell Pollinger  
(in memory of Cinnamon)

Lorraine Poore (in memory of Bucky)

Ken Porter

Roger and Judith Powell  
(in memory of Max and Alex)

Rimma Pozknyakova  
(in memory of Sparky)

Mr. and Mrs. Santo Pratico  
(in memory of Blaze)

Mr. and Mrs. Arthur Pretory (in memory  
of Barney, Chester and Gilbert)

Patricia Prezioso (in memory of Midget)

Laura Price (in memory of C.J.)

Susan Priest (in memory of Casey)

Nancy Prifti (in memory of Sean)

Mr. and Mrs. Glenn Provencher  
(in memory of Mulligan)

Ann Bernadette Pryer  
(in memory of Milo)

Thomas Quirk (in memory of Traveler)

Robert and Marcia Rachow (in memory  
of Chloe and George L. Beagley)

Linda Radulich (in memory of Spike)

Mr. and Mrs. Richard Raffa  
(in memory of Randy)

William Raldiris (in memory of Sandy)

Ramapo Kennel Club  
(in memory of Phoebe R. Wolff)

Sumant and Kavitha Ranade  
(in memory of Dexter)

Ranch Entertainment Inc.  
(in memory of Barbara Bennett)

Minnie Randall (in memory of Pilat)

Jackie Randour  
(in memory of Sassie Shannon Bell)

## Kennel Clubs

Australian Cattle Dog Club of  
America

Elmira Kennel Club

Finger Lakes Kennel Club

Greenwich Kennel Club

Mid-States Stock Dog Association

Mid-Hudson Kennel Association

Olympic Kennel Club

Ramapo Kennel Club

WNY Federation of Hunting Dog  
Clubs

## Matching Gift Companies

Bank of America

Bell-Carter Foods

Bristol-Myers Squibb Company

Computer Associates Inc.

GE Foundation

IBM

ING Foundation

Johnson & Johnson

LandAmerica Foundation

Microsoft

Unilever

Xerox Foundation

Verizon Foundation

## Legacy Walk bricks:

Doug Antczak

Donna Baumer

Jane Miller

Sara Sparkowski

Harold Zweighaft





Ranney Farms (in memory of Daisy)	Rona Rosenberg	Christian Schick (in memory of Bambi and Howard)	Carol and Larry Shapiro (in memory of Kali and Jack)	Mr. and Mrs. Richard Smith (in memory of Luna and Amber)
Mr. and Mrs. Subhakar Rao (in memory of Qristy)	David and Paula Rossi (in memory of Hoss)	Pamela Schider (in memory of Jean Paul, in honor of Darla)	Judith Shapiro (in memory of Madeline)	Mr. and Mrs. Terry Smith (in memory of Lulu)
Judith Rapp	Sylvia Rossi (in memory of Spritz)	Charlotte Schiffman (in memory of Shuku)	Veronica and Leonard Sharkey (in memory of Princess)	James Sneddon (in memory of Brandy)
JoBeth Rath	Mr. and Mrs. Frank Roth (in memory of Logan)	Barbara Schildhorn (in memory of Sweetheart, Tonchie and Rari)	Mr. and Mrs. Raymond Shaver (in memory of Heidi and Buffy)	Mr. and Mrs. Robert Snedeker (in memory of Terry Bunnell and Sammi)
Constance Reed (in memory of Buttons, Butterscotch and Georgia)	Vivian Roufeh (in memory of Brandy)	Mr. and Mrs. Jeff Schlissel (in memory of Chelsea and Wiggle Butt)	Terry and Dee Dee Shaw (in memory of Jenny, Bentley, Oreo and Jenny)	Julie Snell
Ida M. Reeder (in memory of Max and Brandy)	Mr. and Mrs. James Rowe (in memory of Fanner)	Mr. and Mrs. Fred Schmidt (in memory of Shadow)	William Shea (in memory of Mandy)	Mr. and Mrs. Frank Snyder (in memory of Brandy, Gentleman Jim and Bo)
Stephanie Regensburg (in memory of Kobi)	Patricia Roy (in memory of Mocha)	Sally Schmoll (in memory of Newton)	Mr. and Mrs. John Shea (in memory of Sasha)	Irene and David Snyder (in memory of R.J.)
Phyllis and Jerry Regnaud (in memory of Tigger)	Elizabeth Rubach (in memory of Gunner)	Richard Schneider (in memory of Bitsy)	Hildy and Marc Sheinbaum (in memory of Dakota)	Marilyn Snyder (in memory of Big Bertha)
Mr. and Mrs. Edward Reilly (in memory of Rosie)	Darlene Rubenstein (in memory of Bowzer and Fuzzy)	Mr. and Mrs. Robert Schneider	Mr. and Mrs. Jonathan Shell (in memory of Oscar)	Mr. and Mrs. Samuel Snyder
Ken Reinman (in memory of Ranger)	Ana Rubiano	Lisa Schorr (in memory of Lucy)	Doris Lee Shenk-Huber	Rochelle Soble (in memory of Merlin)
Donna Reuthe (in memory of Chloe)	Mr. and Mrs. Thomas Ruggiero (in memory of Maggie)	Alice Schreibman (in memory of Zoi)	Kenneth Shepard	Mr. and Mrs. Rocco Sollecito (in memory of Fudge)
Valerie Riccardi (in memory of Heidi and Princess)	Mary Beth Rusin and Magic River Vizslas (in memory of Crater and Amber)	James Schriber (in honor of Smoke)	Lisa and Ross Sheridan (in memory of Martha Stewart and Minnie)	Mr. and Mrs. Joel Solomon (in memory of Monster, Scooter Pie and Roxie, in honor of Joy and Stanley Mandel)
Laverne Rich (in memory of Madison, Rikki and Annie)	Peter Rustin (in memory of George, Casey and Nike)	Kathryn Schroeder	Susan Sherman (in memory of Tiffany, Molly, Lulu, Sido and Whitney)	Mr. and Mrs. Stephen Solomon (in memory of Jake)
Lisa Rich and Family (in memory of Duke)	Patrick Ryan (in memory of Spunky)	Donnie Schuler (in memory of Charlie)	Mr. and Mrs. Arnie Sholovitz (in memory of Duncan)	Lucille Soto (in honor of Angela Baldanza)
Maryellen Riche (in memory of Casey)	Eugene Ryscavage (in memory of Spots)	Judith Schultz (in memory of Tom and Geri)	Mr. and Mrs. Richard Siegel	Linda Southworth (in memory of Faye)
Mr. and Mrs. Bruce Ricker (in memory of Misty, Benson and Irish Whiskey)	Tom Ryther (in memory of Pug)	Laura Schuster (in honor of Angela Baldanza)	Mr. and Mrs. Larry Simmons (in memory of Maxie)	Robert Sowers (in memory of Rosie, Buffy and Fox)
Mr. and Mrs. Jay Riedinger (in memory of Joy)	Michael Sabatino, Jr. and Robert Voorheis (in memory of Sam)	Mr. and Mrs. Joseph Sciame (in memory of Cassie and Max)	Mr. and Mrs. Philip Simonetti (in memory of Zook)	Mr. and Mrs. Onofrio Spampinato (in memory of Sylvester)
Mildred Riley-Dorion	Millie and Gabe Saland (in memory of Sheba)	Domenica Scimeca (in memory of Noel)	Bridget and Ed Simovich (in memory of Tiger and Buster)	Donna Sparks (in memory of Momo, Piglet, Max and Jerry Barr)
Sara Ring (in memory of Barbara Bennett)	David Salmon (in memory of Jacquot of Plattekill)	Mr. and Mrs. Craig Scott (in memory of Jack)	Robert Simpson	Lynn Speer (in honor of Dr. Richard Schwalb)
Mr. and Mrs. David Rivet	Mr. and Mrs. Pete Sama (in memory of Buddy)	Carol Sebastian (in memory of Harley Jack)	Linda Siple (in memory of Otto)	Mr. and Mrs. John Spenader (in memory of Major and Pugsley)
Mr. and Mrs. James Robbins (in memory of Sandy)	Anne Samoska (in memory of Nikki)	Margaret Seeley (in memory of Sheridan)	Marcia Sippil (in memory of Shayna)	Dot Spencer (in memory of Leia)
Mr. and Mrs. James Robinson (in memory of Keesha)	Therese Sansone and Stuart Fisher (in memory of Cappuccino)	Barbara Seiden (in memory of Bailey)	Sitting Pretty Petsitting: Paula Cutcomb (in memory of Mikayla, Holly, Alekos, Bear and Jenny)	Marcia Spencer (in memory of Jake Newell)
Mr. and Mrs. Richard Rodgers (in memory of Buster)	Mr. and Mrs. John Sartoris (in memory of Shiver and Pepe)	Chris Seidner (in memory of Holly)	Carol Sklarsky (in memory of Luke)	Mary Ellen Spennacchio (in memory of Helen Clement)
Debra Roe and Roseanne Murphy (in memory of Paul C. Wolters)	Mr. and Mrs. Robert Scancellia (in memory of Toby)	Mr. and Mrs. Lawrence Seiford (in memory of Pervis)	Mr. and Mrs. Daniel Slaninka (in memory of Bear)	Mr. and Mrs. Austin Sperbeck (in memory of Beauty and Max)
Mr. and Mrs. Robert Romanowski	Anna Seits (in memory of Petey)	Denise Sellin (in memory of Pedro)	Carrie Smith and David Murray (in memory of Hannah)	Loretta and Bill Spittle (in memory of Tiger Lily and Spencer)
John Romansky (in memory of Barney)	Pam Selden (in memory of Eloise, Libby and Curry)	Thelma Sells (in memory of Barbara Bennett)	Gertrude Smith (in memory of Mary W. Harvey)	Kim and Michael Spolarich (in memory of Dutch)
Richard Ronan (in honor of Dr. Clark)	Denise Sellin (in memory of Pedro)	Vera Selvaggio (in memory of Simba)	Mr. and Mrs. James Smith (in memory of Pupper)	Mr. and Mrs. Robert Srubas (in memory of Clarice)
Rosemarie Ronchini (in memory of Billie)	Thelma Sells (in memory of Barbara Bennett)	Linda Sepe	Kathleen Smith (in memory of Sasha)	Michelle St. James (in memory of Monte)
Mr. and Mrs. Ronald Rosen (in memory of Lucy and Ollie)	Veronica and Leonard Sharkey (in memory of Princess)	Mansukh Shah	Lynette Smith (in honor of Terry Smith)	
Marvin Rosenberg	Mr. and Mrs. George Schak (in memory of Luther)	Mr. and Mrs. Jack Shanahan (in memory of Reilly)	Marjorie Smith (in memory of Mary)	
Mr. and Mrs. Richard Rosenberg (in memory of Maggie, Celienan Guillory and Sheba)	Linnea Scheck	Elizabeth Shankin	Mary and Calvin Smith (in memory of Buddy)	

Alan and Diane St. Martin (in memory of Aldo, Helen Lucille and Arthur)	Dr. and Mrs. Frank Takacs (in memory of Jasmine)	Mr. and Mrs. Gary Van Deursen (in memory of Missy)	Lisa Weiss and John Plunkett	Esther Woltz (in memory of Sadie)
Mr. and Mrs. Howard Stackpole (in memory of Ginger and Stoney)	Sue and Tojo Taney (in memory of Rhonda)	Doug and Amy Van Tassel (in memory of Rorey)	David and Jessica Wells (in memory of Prescious)	Bonita and Todd Woodring (in memory of Wiley, Silvano and Stormy)
Debby and Meadow Stahman (in memory of Mary J. McDonald)	Mr. and Mrs. Richard Tannenbaum (in memory of Baci)	Mr. and Mrs. Russell Van Wetering (in memory of April Chaos)	Mr. and Mrs. James Welsch (in memory of Sporty)	Donna Wright (in memory of Cassie, Fred and Molly)
Susan Stanco (in memory of Charlie)	Mr. and Mrs. David Taylor (in memory of Honey and Brandy)	Jacqueline and Jim VanLoan (in memory of Jessy)	Frances Werthman	Mr. and Mrs. James Wright (in memory of Loretto Goulet)
Rosemary Stanfield (in memory of Basha, Nikki and Charlie)	Ruth Taylor (in memory of Cubby, in honor of Dr. Jeffrey French and the staff at Cape Anne Veterinary Hospital)	Mr. and Mrs. Vincent Vaughan (in memory of Rosabella and Ming)	Mr. and Mrs. Martin West (in memory of Beau)	Deborah Yates (in memory of Lady)
Mr. and Mrs. Leo Staroselsky (in memory of Diesel)	Stacey Teixeira (in memory of Shadow)	Steven and Bambi Venezia (in memory of Jax)	Mr. and Mrs. George White (in memory of Snoopy and Snickers)	Steven Yellen (in memory of Bogey)
Dr. and Mrs. Durward Starr	Mr. and Mrs. Chester Tekieniewski (in memory of Mac)	Felicia Villari (in memory of Mick)	Martha White (in memory of Lucy)	Mr. and Mrs. Robert Yonkers (in memory of Dusty)
Mr. and Mrs. Ken Steadman (in honor of Dr. Richard Esherick and Staff)	Jill and Bob Ten Eyck (in memory of Duke, Cricket and Lucky)	Brian Visokay (in memory of Thumper, Tulip, Clarence and Topper)	Mr. and Mrs. Ron White (in memory of Oscar)	Mr. and Mrs. George Young (in memory of Bear)
Barbara Steffensen (in memory of Leo, in honor of Ralph Hersom)	Cliff and Ginger Terry (in memory of Sage)	Jo Ann Vitale	Mr. and Mrs. Stephen White (in memory of Lily, Oscar and Sasha)	Robert Young (in memory of Toto)
Joan Stegman (in memory of The Skipper)	Sherri Tessitore (in memory of Scooter)	Jill and Larry Vogel (in memory of Roxie and Baby)	Susanna White (in memory of Patsy)	Roxanne Young (in memory of Martha L. Allen, Corinne Cannan and Watson)
Carl Steike (in memory of Dingo)	Sylvia Thomas (in memory of Tomo and Shinju)	Deborah Vogel (in honor of Roundout Valley Veterinary Associates)	Mr. and Mrs. Thomas White (in memory of Nick)	Mr. and Mrs. Joseph Zadrosny (in memory of Chester)
Christine Steinberg (in memory of Pina)	Peter Thompson (in memory of Ivy)	Kim Vukov and Geri Epstein (in memory of Otis)	Debbie Whiting (in honor of Panda)	Mr. and Mrs. James Zanella (in memory of Heather)
Adelaide Stella (in memory of Lilihamer Hope Stella)	William Thomson (in memory of Sissy)	Ellen Wade (in memory of Ashrei)	Janet and Marvin Whitman (in memory of Casey, Rusty and Jerimiah)	Margaret Zajackowski (in memory of Ginger)
Mr. and Mrs. Jeffery Stern (in memory of Fluffy, Lulu, Katie, Mookie and Torrie)	Jessica Thorpe (in memory of Sidney, Boots, Pebbles and Howie)	Larry Wahler (in memory of Max)	Larry and Tawn Whittemore (in memory of Alexandra Pearl)	Mr. and Mrs. Michael Zak (in memory of Max, in honor of Dr. Ripberger)
Mr. and Mrs. Ronald Stevenson	Claire Tierney and Ben Piteo (in memory of Viper)	Mr. and Mrs. Craig Wakeley	Frances Whittles (in memory of Ollie)	Mr. and Mrs. Jack Zakim (in memory of Teddy, Sammy, Klondike and Rosie)
Margaret Stiff	Karen Lee Tobey (in memory of Brandie)	James Walberg and Joshua Smirin (in memory of Birdie)	Charles and E. Barbara Wiggins	Mr. and Mrs. Edward Zamory (in memory of Kashi and Saffire)
Lyman Stinson (in memory of Patch, Ditto and Precious)	Patricia Tolchin (in memory of Igor)	Stephen Waldrop (in honor of Angela Baldanza)	Winthrop Wilcox (in memory of Abby)	Patti Zellmer (in memory of Molly)
Mr. and Mrs. Fred Stoll (in honor of Karen McCarney)	Mr. and Mrs. Howard Toomay (in memory of Barbara Bennett)	Dayl Walker (in memory of Buddy)	Dawn Wildrick-Cole (in memory of Belle)	Mr. and Mrs. Michael Zenobia (in memory of Bart and Urs)
Shirley Stratton (in memory of Jay Stratton and Sheba)	Patricia Townsend (in memory of Buddy)	Janice Wallinger (in memory of Urban)	Lynda Wilkie (in memory of Hudson)	Linda and Andrew Zeswitz (in memory of Star)
Mr. and Mrs. John Strollo (in memory of Meg and Sapphire)	Nanette Tramont (in memory of Duchess)	Jean Walters	Joanne Willcox (in memory of MacDuff)	David Zibura (in memory of Tracy)
Arlene Sturm (in memory of Mike)	Lois and Nutmeg Trask (in memory of Splash)	Byron Wampler and Lawson Waring (in honor of Fay Fayerman)	Anne and Michael Willenborg (in memory of Niko and Bauer)	Randy Zicht (in memory of Winslow)
Roy Sumfleth	Mr. and Mrs. John Turner (in memory of Schoena)	Samantha Wang (in honor of Angela Baldanza)	Deborah Williams (in memory of Midnight)	Eileen Zigman (in memory of Luka)
Melinda Sunnarborg	Michelle Turner	Betsey Warne (in memory of Elmo)	Mr. and Mrs. Edward Williams (in memory of Buddy and Midnight)	Beth Zils (in memory of Desmo)
Debe Sutherland (in honor of Sukie)	John Tuyn (in memory of Duffy and Meisha)	Janice Washburn (in memory of Molly)	Jeanne Williams (in memory of Rudy)	Patricia Zingale
Thomas Sweeney (in memory of Buddy)	Karen Tyler (in memory of Norman)	Deborah Waters	Jess and Mary Williams (in memory of Zoe)	Rita Zorc
Elizabeth Swenson (in memory of Rambo and Frosty)	Mr. and Mrs. Anthony Tyminski (in memory of Nissan)	William Watkins (in memory of Laddy I, Laddy II, and in honor of Laddy III)	Megan Williams (in memory of Piggy)	Judie Zuber (in memory of Champ)
Christine and Ian Swift (in memory of Tela)	Anne and Steve Udell: Happy Tails Pet Care	Carolyn and Frank Watson (in memory of Phoebe Regio Wolff)	Pauline Williman (in memory of Wofat)	Selma Zucker (in memory of Trapper and Schatz)
Marilyn Szymanowski (in memory of Coco)	Mr. and Mrs. John Usuriello (in memory of Zeus)	Mr. and Mrs. Clyde Weed (in memory of Diva)	Ronald Winfield (in memory of Loretto Goulet)	Dana Zwanziger (in memory of Charlie)
Mr. and Mrs. Chester Szymkuc (in memory of Reese)	Donna Vale (in memory of Dallas)	Geraldine Weeks	Shellie and Dean Winkler (in honor of Honey)	Mr. and Mrs. Edward Zwick (in memory of Baron)
Mr. and Mrs. Philip Tabor (in memory of Siggy, Winston and Max)	Mr. and Mrs. Paul Valentine	William and Emily Weierstall (in memory of Persey)	Susan Winnick (in memory of Zook)	Dr. and Mrs. Carl Zymet
Gail Taddeo (in memory of Bailey)	Paula Vallee (in memory of Baby)	Lisa Weigand (in memory of Tiny)	Joan Winoker (in memory of Gizmo)	
		Doris Weiss (in memory of Rosebud)	Roger Wissman (in memory of Mandy)	
			Thomas Witt (in memory of Big Dog)	

Dear donors and friends,

Nothing brings comfort like the unconditional love of a dog, a cat, or any other cherished pet. In their eyes, we are the most important people in the world—at least for that moment while we are near the treat jar.

We all know the depth of feeling we have for our pets, and that they have for us. That's what makes us animal lovers—a breed unto our own. In earnest, I am happy to say that every time I am attending a dog show, an Institute event, or just corresponding on the phone or via e-mail with one of you, I know that we connect and understand each other, because of our shared affection for these creatures. Let me tell you, it's a great feeling to be surrounded by such like-minded people!

As I write, another Thanksgiving holiday has passed, and we all have so much to be grateful for. At the top of my list are the wonderful, generous donors who support the Baker Institute. You might expect such sentiment from a development officer, but read the stories in this report and be assured: our esteemed faculty, superb graduate trainees, exceptional undergraduate students and technicians, who conduct research on animal health issues, are grateful to you too. Scientists, administrators, support staff and—above all—the animals, are willfully and forever indebted to you. Your loyal support, through gifts great and small, reaps a harvest beyond measure.

It is often said that “the whole is greater than the sum of its parts.” At the Baker Institute, we are not truly whole without you. As champions of our cause to improve the health of animals, your support—financial and otherwise—sustains us in every way.

Thank you so very much.



Lynne S. Williams  
Director of Development  
and Public Affairs



Dear friends,

For so many of us—individuals and institutions—2008 commenced with a wave of optimism, only to diffuse, and test our spirits in the last four months of the year. Despite the global economic crisis that ensued (and lingers yet), the Baker Institute stands firm in our commitment to basic and applied research for the benefit of our pets.

Cancer, genetics, fertility, infectious disease, virology, wildlife conservation—even blindness: these are the domain of Baker Institute study. As you have learned in this report, scientific questions often lead to ever more and intriguing questions. But, although the Baker Institute may be described as an impressive research campus, it is no ivory tower; the results of our study have real-world, practical applications today, as well as far-reaching promise for the future of both animals and people.

Consider, for instance, Twilight, the superstar of Doug Antczak's research herd, and living source of the horse genome map. Or, Lancelot, the dog cured of congenital night blindness through the application of gene therapy developed by Greg Acland. Or future generations of miniature schnauzers who, through a genetic test developed in Vicki Meyer-Wallen's lab, may be spared from a syndrome causing male dogs to develop uteruses. Or the people of eastern Zambia, who—right now—though the insight and outreach from Alex Travis's lab—are rearing healthier livestock for better nutrition, increased income, and reduced poaching of wild species.

The breadth of the research, and the range of its impact, is astounding. But the mission is made possible only through your giving—our giving.

In an age like no other, your generosity and loyalty earns our deepest thanks.



David Behnke  
Advisory Council Vice Chair

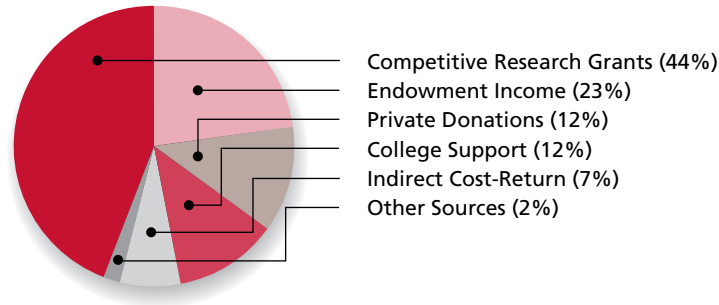


Richard Henry, DVM  
Advisory Council Chair



# Financial Summary 2008

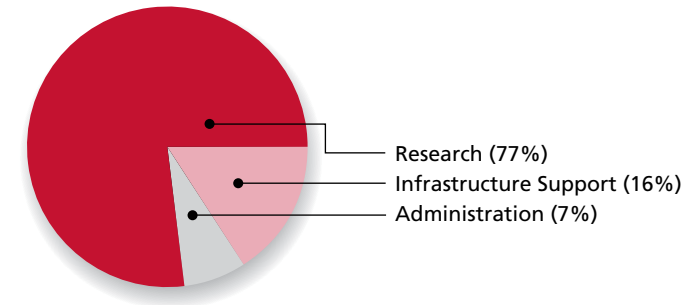
## 2008 Revenue



### Revenue Summary

- Close to 45% of our income comes from competitive research grants.
- The percent of endowment income was less in 2008, compared to recent years, as our grant funding increased.
- Private donations are gifts from individuals, veterinary practices, kennel clubs, foundations and corporations.
- College support represents funds from the College of Veterinary Medicine for faculty salaries.
- Indirect costs represent the non-research expenses associated with conducting research at Cornell. This usually increases when grant support increases.
- Other sources represent miscellaneous income, such as royalties.

## 2008 Expenses



### Expense Summary

- More than 75% of our budget continues to be directed towards our research programs, which allows us to maintain a leadership position in both basic and applied research for companion animals.
- In 2008, we used about 15% of our research budget to enhance and complement our research programs funded by competitive research grants.
- Infrastructure costs were slightly higher in 2008, compared to recent years, because we renovated the administrative space for our support staff. In total, however, we spent less than 25% of our budget on support costs such as building maintenance, utilities, administrative and public affairs staff and programs.



## Baker Institute Advisory Council

The Baker Institute Advisory Council is comprised of scientists and veterinarians at the forefront of the animal and human health worlds. It also includes devoted pet owners, accomplished dog and horse breeders, exhibitors, and dog trainers and behaviorists, a number of whom are Cornell University and College of Veterinary Medicine alumni. They provide invaluable guidance, financial support, and assistance to the director and staff of the Institute, ensuring that our research programs, facilities, and outreach are not only the best possible today, but that we have the knowledge and insight to prepare the Institute for the future.



**David Behnke (Vice Chair)**

Washington, Connecticut  
Managing Partner  
Behnke Doherty & Associates, LLC

**Joanne M. Bicknese, DVM, MS, ELS**

Cream Ridge, New Jersey  
Principal Documentation Director  
Bristol-Meyers Squibb  
Research and Development

**Sarah Rockefeller Bogdanovitch, Emerita**

Paul Smiths, New York  
Associate Professor of Forestry  
Paul Smiths College

**Albert C. Bostwick**

Aiken, South Carolina

**Philip B. Carter, PhD**

Raleigh, North Carolina  
Professor *Emeritus* of Microbiology  
and Immunology  
North Carolina State University

**Ezra Cornell**

Ithaca, New York  
President  
Cornell Pochily Investment  
Advisors, Inc.

**Richard P. Henry, DVM (Chair)**

Dix Hills, New York  
Past Director and  
Chief Executive Officer  
Scott, Henry, & Rosen, P.C.  
Deer Park Animal Hospital

**Gerry Hickey, MVB, PhD**

Westfield, New Jersey  
Director, Regulatory Affairs  
Merck Research Laboratories

**William J. Kay, DVM**

Plymouth Meeting, Pennsylvania  
Hickory Veterinary Hospital/  
Pennsylvania Veterinary Specialists

**Joseph Kinnarney, DVM, MS**

Reidsville, North Carolina  
General Veterinary Practitioner  
Reidsville Veterinary Hospital, Inc.

**Darlene L. Klein**

Ithaca, New York

**Robert Marshak, DVM  
*Emeritus***

Newtown Square, Pennsylvania  
Dean *Emeritus*/Professor *Emeritus*  
University of Pennsylvania

**Frederick A. Murphy, DVM, PhD,  
MD (hc), DSc (hc)**

Galveston, Texas  
Department of Pathology  
The University of Texas  
Medical Branch

**Roy V.H. Pollock, DVM, PhD  
*Emeritus***

Ithaca, New York  
Chief Learning Officer  
Fort Hill Company

**Gene M. Pranzo, Esq.**

New York, New York  
President  
Dorothy Russell Havemeyer  
Foundation, Inc.

**Margaret A. Reed, PhD**

Wilton, Connecticut  
Canine Training and  
Behavior Services, LLC

**Philip Reilly, MD**

Concord, Massachusetts  
*Emeritus* Chairman of the Board  
Interleukin Genetics, Inc.

**Andrew G.C. Sage II**

Wilson, Wyoming

**Sara Sanders, DVM**

Pittsford, New York  
General Veterinary Practitioner  
Mendon Village Animal Hospital

**Mary Sloane**

Weston, Connecticut

**Dina Tresnan, DVM, PhD,  
Diplomate ACVM**

Old Lyme, Connecticut  
Director, Safety and Risk Management  
Pfizer, Inc.

**Judith Wilpon**

Frost Creek Farm  
Lattingtown, New York

**Jan Witkowski, PhD**

Cold Spring Harbor, New York  
Executive Director, Banbury Center  
Cold Spring Harbor Laboratory

# Faculty, Staff and Student Directory

---

## Administration

### **Douglas F. Antczak**

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

### **Joseph E. Bennett**

Facilities Manager:  
AALAS accreditation

### **Jane M. Miller**

Administrative Manager:  
BS, MPS, Cornell University

### **Lynne S. Williams**

Director of Development and Public Affairs:  
BA, Seton Hill College;  
MA, Slippery Rock University

---

## Research Units

### **Infectious Diseases and Immunology**

Albert C. Bostwick Laboratory of Molecular Biology: Canine and Feline Parvoviruses

### **Colin R. Parrish**

John M. Olin Professor of Virology:  
BSc, Massey University (New Zealand); PhD, Cornell University

### **Sang-Bom (Michael) Lyi**

Research Associate:  
PhD, Cornell University

### **Laura B. Goodman**

Postdoctoral Associate:  
BS, University of Michigan at Ann Arbor; PhD, Cornell University

### **Carole E. Harbison**

DVM/PhD Candidate:  
BS, Oberlin College

### **Karin Hoelzer**

Post-DVM PhD Candidate:  
DVM, Hannover Veterinary School (Germany)

### **Christian Nelson**

PhD Candidate:  
BS, Cornell University; PhD, Cornell University (1/09)

### **Karla M. Stucker**

DVM/PhD Candidate:  
BS, Cornell University; DVM, Cornell University (5/08)

### **Virginia Scarpino**

Research Technician:  
BS, Edinboro State College; MA, SUNY College at Geneseo

### **Wendy S. Weichert**

Research Support Specialist:  
BS, Cornell University

### **Equine Genetics Center: Equine Immunology**

### **Douglas F. Antczak**

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

### **Leela Noronha**

Post-DVM PhD Candidate:  
ScB with Honors, Brown University; DVM, Virginia-Maryland Regional College of Veterinary Medicine

### **Donald C. Miller**

Research Support Specialist:  
Cornell University

### **Christina Costa**

Research Technician:  
BS, SUNY at Buffalo

### **Laboratory of Immunology of Animal Models of Infectious Diseases**

Susana Mendez  
Assistant Professor of Immunology and Infectious Diseases:  
DVM, PhD, University Complutense of Madrid

Meleana Hinchman  
Lab Manager:  
BS, Cornell University

Lu Huang  
PhD Candidate:  
BS, Zhejiang University, China

Wenhui Wu  
Postdoctoral Associate:  
MD, Bengbu Medical College (China)

### **Laboratory of Immunoparasitology**

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

Diana Douglas (nee Brunsman)  
Research Technician:  
BS, Truman State University

### **Leadership and Training Initiatives**

Douglas D. McGregor  
Director of Leadership and Training Initiatives:  
BA, MD, University of Western Ontario; D.Phil., Oxford University

### **Laboratory of Mucosal Immunity, Nematodes and Immunoparasitology**

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

Maria Valeria Fabre  
Postdoctoral Associate:  
MD, University of Buenos Aires (Argentina)

Andrew Moorhead  
Postdoctoral Associate:  
PhD, Cornell University

Lisa K. Blum  
PhD Candidate:  
BS, Cornell University

Nebiat Gebreselassie  
PhD Candidate:  
BS, Salem College

Lucille F. Gagliardo  
Research Technician:  
BS, Southampton College

### **Laboratory of Virology: Feline Caliciviruses and Mammalian Orthoreoviruses**

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

Louis G. Hom  
Postdoctoral Associate:  
BA, Cornell University; PhD, University of California-Berkeley

Jae-Won Kim  
Postdoctoral Associate:  
BSc, MSc, Yonsei University (Korea); PhD, North Carolina State University-Raleigh

Susanne Moessmer  
PhD Candidate:  
MS, Technical University Munich (Germany)

Robert J. Ossiboff  
DVM/PhD Candidate:  
BS, Loyola University; PhD, Cornell University (1/09)

Meagan L. Wisniewski  
PhD Candidate:  
BS, University of North Carolina-Charlotte; PhD, Cornell University (1/09)

Brenda Werner  
Research Support Specialist:  
BS, Cornell University; MSCIT, Regis University

### **Genetics and Reproductive Biology**

The Albert C. Bostwick Foundation Laboratory: Canine Hip Dysplasia and Osteoarthritis

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

### **Laboratory of Epigenetics and Reproductive Biology**

Scott A. Coonrod  
Associate Professor of Epigenetics and Reproductive Biology:  
BS, MS, PhD, Texas A&M University

Rui Kan  
Research Associate:  
BS, MS, Inner Mongolia University (China); PhD, Chinese Academy of Sciences (China)

Brian Cherrington  
Postdoctoral Associate:  
PhD, Colorado State University

Eric Morency  
Postdoctoral Fellow:  
PhD, University Claude Bernard Lyon (France)

Xuesen Zhang  
Postdoctoral Associate:  
BA, MSc, Dalian Medical University (China); PhD, Chinese Academy of Sciences (China)

Boram Kim  
PhD Candidate:  
BS, Yonsei University, Seoul University (Korea)

John L. McElwee  
PhD Candidate:  
BS, Binghamton University

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

Ashley Palmer  
Research Technician:  
BA, Wellesley College

Christopher J. Torre  
Research Technician:  
BS, Cornell University

### Laboratory for the Study of Inherited Canine Reproductive Diseases

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

Shashikant Pujar  
Research Associate:  
BSc, Vijaya College, Bangalore (India); MSc, St. Joseph's College, Bangalore (India); PhD, University of Pune (India)

### Inherited Eye Disease Studies Unit

Gregory M. Acland  
Professor of Medical Genetics:  
BVSc, University of Sydney (Australia); Diplomate, American College of Veterinary Ophthalmologists

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

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

Jennifer L. Johnson  
Research Support Specialist:  
BS, Cornell University

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

### Laboratory of Reproductive Biology

Alexander J. Travis  
Assistant (Associate 11/08-)  
Professor of Reproductive Biology:  
AB, Princeton University;  
VMD, PhD, University of Pennsylvania

Atsushi Asano  
Research Associate:  
BAgr, Kochi University (Japan); MAgr, PhD, Okayama University (Japan)

Chinatsu Mukai Kazama  
Postdoctoral Associate:  
PhD, Tokyo University (Japan)

Danielle Buttke  
DVM/PhD Candidate:  
BA, University of South Dakota

Yeun Hee (Yoni) Kim  
PhD Candidate:  
MS, University of Seoul (Korea)

Vimal Selvaraj  
Post-DVM PhD Candidate:  
BVSc, Madras Veterinary College (India); MS, University of Illinois at Urbana-Champaign; PhD, Cornell University (1/08)

Jacque L. Nelson  
Research Support Specialist:  
AS, Jamestown Community College; BS, Cornell University

### Emeritus Faculty

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

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

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

### Administrative Support

Jennifer L. Benson  
Development Assistant:  
BS, Temple University

Nancy Cusumano  
Assistant to the Director (to 3/08):  
BA, SUNY College at Stonybrook, NY

Anita S. Hesser  
Administrative Assistant and Assistant Network Administrator:  
AS, SUNY Empire State College

Laurie A. Lychalk  
Administrative Assistant, Public Affairs:  
AAS, Tompkins Cortland Community College

Dawn M. Milbyer  
Assistant to the Director (from 7/08):  
AAS, Manchester Community College

Dorothy K. Scorelle  
Administrative Assistant:  
BS, SUNY College at New Paltz

Susan M. Williams  
Office Receptionist/Administrative Assistant

### Maintenance And Grounds

David H. Edwards, Jr.  
Maintenance Mechanic

Russell F. Haus  
Maintenance Mechanic

Carl J. Hazen  
Head Custodian

Wayne C. Weldner  
Custodian

### Technical Support

Timothy W. Anguish  
Manager, Core Scientific Instruments and Equipment:  
BS, SUNY College at Cortland

Gail M. Sullivan  
Department Safety Representative:  
AAS, SUNY Agricultural and Technical College at Canton; BA, SUNY College at New Paltz

Edward H. Thompson, Jr.  
Laboratory Attendant

### Vivarium/Animal Care

Kevin T. Draiss  
Animal Technician:  
AAS, SUNY Agricultural and Technical College at Delhi; BS, Cornell University; AALAS accreditation

Shannon D. Kellogg  
Animal Technician:  
AALAS accreditation

Julie D. Reynolds  
Animal Technician:  
AALAS accreditation

Emily J. Silvela  
Animal Technician:  
BS, Cornell University

Scott M. Soprano  
Animal Technician:  
AAS, Finger Lakes Community College

Jonathan R. Wood  
Animal Technician:  
AAS, Finger Lakes Community College; AALAS accreditation

Jackie L. Wright  
Vivarium Supervisor:  
AAS, SUNY College of Technology at Delhi; BS, Syracuse University; AALAS accreditation

### Veterinary Students

Hannes Bergmann  
2008 Leadership Program, Coonrod Laboratory

Jennell Bigrigg  
2008 Leadership Program, Coonrod Laboratory

Lucie Chevallier  
2008 Leadership Program, Acland Laboratory

Elsa Garcia  
2008 Leadership Program, Bliss Laboratory

Anna Heymer  
2008 Leadership Program, Parker Laboratory

Jennifer Irving  
2008 Leadership Program, Mendez Laboratory

Sally Iverson  
Parker Laboratory

Sophie Kay  
2008 Leadership Program, Travis Laboratory

Ming Lui  
2008 Leadership Program, Parrish Laboratory

Cara McNamee  
2008 Havemeyer Fellow, Antczak Laboratory

Anne Poujol  
Foreign Veterinary Student Externship, Parker Laboratory

Kari Walsh  
2008 Havemeyer Fellow, Antczak Laboratory

### Undergraduate Students

Jegath Athilingham  
Parker Laboratory

Stephen Berds  
Parker Laboratory

Sharilyn Brandel  
Parker Laboratory

Robert Brody  
Coonrod Laboratory

David Byun  
Mendez Laboratory

Jennifer Cassano  
Antczak Laboratory

Shirley Cheng  
Appleton Laboratory

Jasmine Chiang  
Mendez Laboratory

Meg Crapster-Pregont (Hughes Scholar)  
Parker Laboratory



Lucas Dawson  
Appleton Laboratory

Rama El Yafawi  
Appleton Laboratory

Patricia Green  
Mendez Laboratory

Melanie Ho  
Parrish Laboratory

Natalie Johnson  
Parrish Laboratory

Kate Justus  
Appleton Laboratory

Jason Kaelber  
Parrish Laboratory

Riaz Karmali  
Coonrod Laboratory

Siddharth Khasnavis  
Parrish Laboratory

Patrick Lightfoot  
Parker Laboratory

Tyler Lillie  
Parrish Laboratory

Diana Magee  
Mendez Laboratory

Sarah Mattmiller (McNair Scholar)  
Parker Laboratory

Rachel Mays  
Parker Laboratory

Thomas McConville  
Mendez Laboratory

Yevgeniya Mogilevskaya  
Travis Laboratory

Byung Joo (Justin) Nahm  
Mendez Laboratory

Christopher Orapello  
Appleton Laboratory

Michelle Patterson  
Appleton Lab

Jeremy Salerno  
Travis Laboratory

Mark Scurrah  
Mendez Laboratory

Joy Tseng  
Antczak Laboratory

Emily van den Blink  
Coonrod Laboratory

Sarah Widger  
Public Affairs/Development

### Horse Barn Crew

Bethany Austin

Erin Baum

Katherine Boyd

Marine de Marcken

Caitlin Hokanson

Sasha Korn

Tyler Lillie

Rachel Mays

Nichole Moon

Paula Patton

Carolyn Payne

Amanda Scheitinger

Jason Siegelheim

Sophie Smith

Ashley Vail

### Visiting Scientists and Students

Leah Alabanza  
Rotating Graduate Student,  
Mendez Laboratory

José Maria Alunda  
Visiting Scientist,  
Mendez Laboratory

Emily Cornwell  
Rotating Graduate Student,  
Mendez Laboratory

Christine Decarlo  
Rotating Graduate Student,  
Antczak Laboratory

Pathamet Khositharattanakool  
Visiting Graduate Student,  
Appleton Laboratory

Beth Licitra  
Rotating Graduate Student,  
Mendez Laboratory

Deeqa Mahamed  
Rotating Graduate Student,  
Mendez Laboratory

Hussaina J. Makun  
Visiting Fulbright Scholar,  
Mendez Laboratory

Carolyn McGuinnes  
Rotating Graduate Student,  
Appleton Laboratory

Eveliina Minkkinen  
Visiting Fellow, Parrish Laboratory

Rachel Pfuntner  
Rotating Graduate Student,  
Parker Laboratory

Victor Tse  
Rotating Graduate Student,  
Parrish Laboratory

Piraye Yurttus  
Visiting PhD Candidate,  
Weill Medical, Coonrod Laboratory

Yueting Zhang  
Rotating Graduate Student,  
Parker Laboratory

### Part-Time Assistants

Christina Bainbridge  
McGregor Office

Adriana Blossom  
McGregor Office

Isaac Greenhut  
Parrish Laboratory

Shelagh M. Johnston  
Parrish Laboratory

Cynthia Kwong  
McGregor Office

Ausra Milano  
Acland Laboratory

Jessica Mooney  
McGregor Office

Susan E. Pearce-Kelling  
Acland Laboratory

Melissa Restifo  
Antczak Laboratory;  
McGregor Office

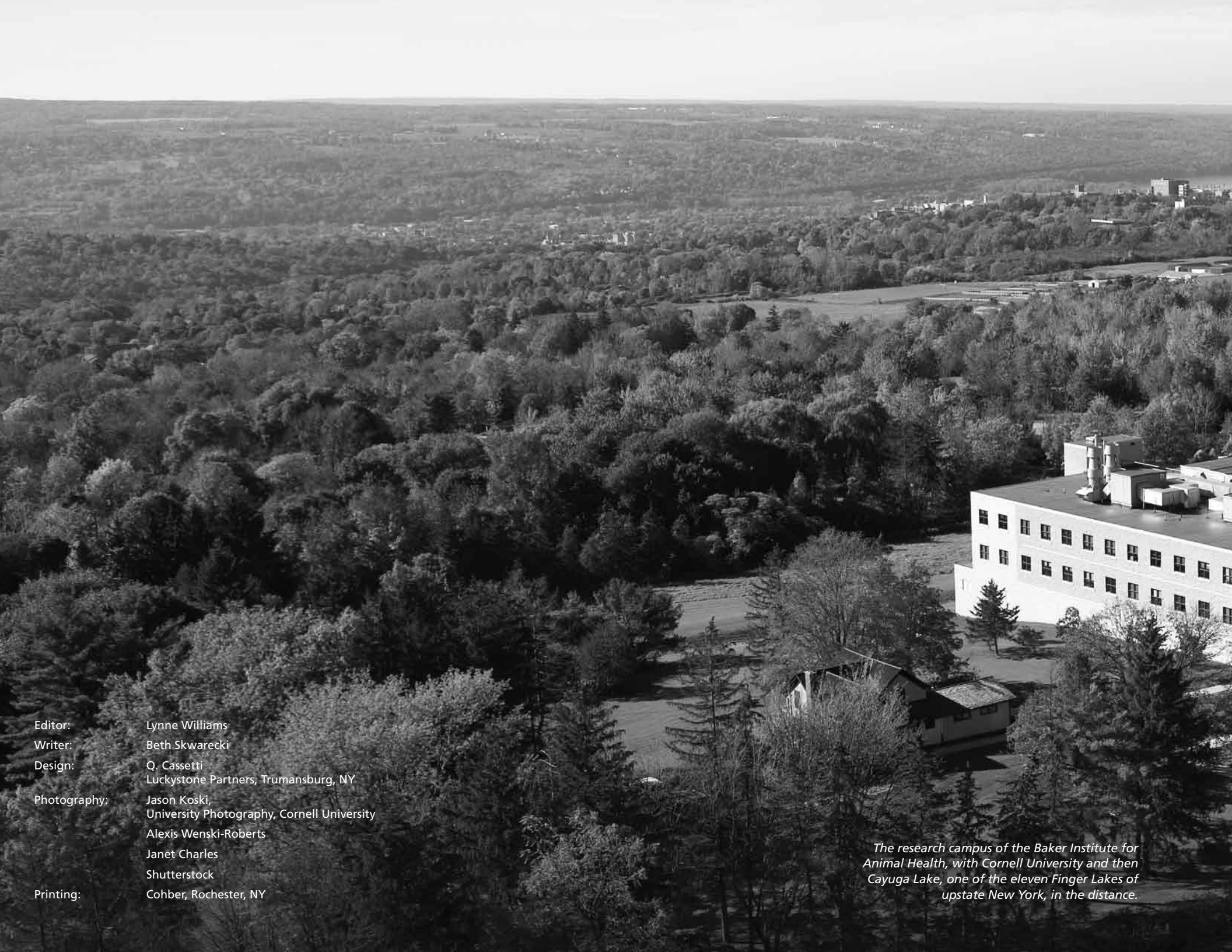
Svetlana V. Temnykh  
Acland Laboratory

Lauren Wu  
Volunteer, Travis Laboratory



*The Baker Institute's McConville Barn, a 19th century historic structure restored in the mid-1980s with generous gifts from Mrs. Dorothy Russell Havemeyer McConville. It is home to the unique herd of horses used for studies of the immunology of pregnancy and the Horse Genome Project.*





Editor: Lynne Williams  
Writer: Beth Skwarecki  
Design: Q. Cassetti  
Luckystone Partners, Trumansburg, NY  
Photography: Jason Koski,  
University Photography, Cornell University  
Alexis Wenski-Roberts  
Janet Charles  
Shutterstock  
Printing: Cohber, Rochester, NY

*The research campus of the Baker Institute for Animal Health, with Cornell University and then Cayuga Lake, one of the eleven Finger Lakes of upstate New York, in the distance.*





Cornell University  
College of Veterinary Medicine  
Baker Institute for Animal Health

Hungerford Hill Road  
Ithaca, NY 14853

<http://bakerinstitute.vet.cornell.edu>  
607.256.5600