Baker Institute
For Animal Health
Annual Report
2009 – 2010
To Improve Animal Health Through Basic and Applied Research
Dear Friends of the Baker Institute for Animal Health,

I am delighted to present the 2010 Annual Report of the Baker Institute for Animal Health. Our theme was “60 Years and Two Careers” as we celebrated 60 Years of leadership in the field of animal health research as well as the careers of two distinguished faculty members, Professor George Lust and former Director Douglas McGregor.

Our 60-year history has been punctuated by discoveries that have improved the lives of animals. When we attended the American Kennel Club/Eukanuba and Westminster Kennel Club Dog Shows, I was able to say with confidence that every one of the healthy and happy dogs present had been touched by research performed at the Baker Institute. In the early years, this work produced vaccines that saved dogs’ lives. More recently, identification of genetic causes of disease has helped to limit the perpetuation of these diseases in affected breeds. At this juncture, the genome sequencing efforts for the dog and horse are bearing fruit in many ways that show us the benefit of conducting fundamental research in order to solve problems that challenge animal health. In 2010, the formula was executed beautifully when the equine genome sequence enabled the identification of the genetic causes of hip dysplasia. This discovery was translated immediately into the development of a diagnostic test for the affected gene. This is the type of application of basic research findings upon which the reputation of the Baker Institute has been built and that will serve as the basis for advances in the future.

George Lust has been a key researcher during 42 of the 60 years of Baker history. The evolution of his research program parallels that of the Institute. George began his research on canine hip dysplasia by studying the chemical changes in affected joints. He continued his work by studying the impact of growth on the disease and in recent years has directed the research toward understanding the genetic causes of hip dysplasia. George leaves a legacy of students and collaborators who will continue his efforts to solve the problem of hip dysplasia in dogs.

Doug McGregor has had a distinguished career as a researcher, administrator, and leader of research training programs. He enjoyed a highly successful career as a cellular immunologist and, when recruited to the Baker Institute as director, he set about creating the paradigm in place today in which the expectation is that all research programs be federally funded. This was a fairly radical idea when Doug introduced it in 1975, and it has served us very well. Later, when Doug was appointed associate dean for research for the College, he developed NIH-funded training programs for veterinarians. His success in this regard is both impressive and inspiring and many college investigators have benefitted from the programs. Doug’s scientific legacy will include his research findings as well as the large number of veterinarians who today are conducting research and, in their turn, training the next generation of veterinary investigators.

The year has been marked by additional milestones. We have joined with the Feline Health Center in our mission to improve the lives of animals. The Center moved to the Baker Institute in November of 2009, and we are working together to optimize our administrative and programmatic activities. Other significant events and accomplishments are described in the report. I am very pleased that Colin Parrish, the John M. Olm Professor of Virology, has been appointed to serve as the next director of the Baker Institute for Animal Health and the Feline Health Center. Colin is an extraordinary scientist who has contributed in many important ways to the Institute since his arrival as a graduate student in 1980. His commitment to our mission is strong and our future is secure in his hands.

It has been my privilege to serve the Institute as interim director during the past year. Thank you for your support and commitment to our mission. The generosity of our friends enables us to continue to lead and grow our research efforts. To put it simply, we could not do it without you!

When he founded the laboratory that would become the Institute, James Baker’s vision was that the challenges of animal health research could be attacked using scientific tools at the cutting edge. In the first 60 years, we have seen James Baker’s vision realized in ways that he might not have imagined. We look to the future with excitement and commitment.

With best wishes,

Judy Appleton
Interim Director
Baker Institute for Animal Health and Feline Health Center
Alfred H. Caparoy
Professor of Immunology
Douglas Antczak, VMD, PhD, the Dorothy Havemeyer McConville Professor of Equine Medicine is studying Lavender Foal Syndrome, a fatal inherited disease of Egyptian Arabian horses and their descendants. The syndrome is named for the unusual coat color of affected foals, described as pale chestnut, lavender, or pinkish. Lavender foals, unable to stand or lie on their stomachs, tend to lie on one side with their necks stretched back and out. Other symptoms include rolling eyes, seizures, stiff legs, and paddling motions. “Virtually all affected foals are euthanized within their first week of life. This is very distressing for owners and veterinarians alike,” says Dr. Antczak.

Despite the rarity of Lavender Foal Syndrome—10.3 per cent of Egyptian Arabians and 1.8 per cent of non-Egyptian Arabians are carriers—the cost to owners is significant. “The loss of that year’s foal, the mare’s lost breeding year, plus veterinary care, can total thousands of dollars,” estimates Dr. Antczak.

Drs. Antczak and Samantha Brooks, assistant professor in Cornell’s Department of Animal Science, collaborated successfully on a project to identify the mutated gene that causes this disease. It took nearly a decade, along with essential cooperation from Arabian horse breeders, to collect the necessary hair samples from affected foals and their relatives. The researchers then developed a simple molecular assay to test for carriers or to confirm the diagnosis in afflicted foals.

Because Lavender Foal Syndrome is a recessive condition, horses with only one copy of the mutated gene appear normal, but are carriers. Afflicted foals, however, carry two copies of the mutant gene—one from each parent. The new test will enable breeders to avoid carrier-to-carrier matings that can produce affected foals. Test results showing a “clean bill of health” will enhance a horse’s breeding value. “The Lavender Foal Project is an excellent example of the practical progress in equine genetic medicine that was made possible by the recent sequencing of the horse genome,” notes Dr. Antczak. “Using genetic testing in this powerful way may eventually eliminate this disease.”

Gregory Acland, BVSc, Professor of Medical Genetics, researches inherited eye diseases in dogs. Sometimes, he conquers them. One such disease, progressive retinal atrophy (PRA), renders affected Glen of Imaal terriers completely blind by age seven. “It first manifests around age three—too late to avoid breeding carriers together,” notes Dr. Acland. Using DNA derived from blood samples, he compared thousands of short gene sequence variations, called “SNPs,” from affected and unaffected terriers, exploiting newly available genomics tools (“SNP chips”) to locate the mutated gene. “The elimination of PRA in this breed is now probable,” says Dr. Acland.

Another breed, the briard, is susceptible to congenital stationary night blindness, an early-onset disease that causes a range of vision problems. “We now have a test that detects the gene responsible for the disease,” says Dr. Acland. “Breeders can avoid carrier-to-carrier matings, and the incidence of congenital stationary night blindness in briards has decreased rapidly.”

Other diseases that have been similarly eliminated are PRA in collies and Irish setters, and progressive rod cone degeneration in Australian cattle dogs. “There are now over 15 genetic tests associated with 30 different dog breeds,” notes Dr. Acland. “Funding from the NIH, Morris Animal Foundation, and various breeder groups has been vital to our work.”

In another line of collaborative research, a briard named Lance-lot had his sight restored via gene replacement therapy. “Dr. Bill Hauswirth at the University of Florida developed a ‘viral vector’—a non-toxic virus containing the missing gene,” explains Dr. Acland. “When Lance-lot was injected with this virus, the gene was restored to his retina, and his vision returned to normal.” This technique has since proven successful on humans with similar disorders.

Dr. Acland is currently studying PRA in Italian greyhounds and American Staffordshire terriers, and a complex retinal disease called collic eye anomaly. “Formerly, we needed 100 dogs plus their parents and grandparents to obtain a sample database for each disease,” recalls Dr. Acland. “Now, with SNP chips, samples from only about 30 dogs are needed. That’s good news for dog lovers everywhere!”
Scott A. Coonrod, MS, PhD, Associate Professor of Epigenetics and Reproductive Biology, is researching canine breast cancer. “Dogs get breast cancer naturally, just as humans do, and they have mammary gland structure, hormone levels, and breast cancer pathways that are similar as well,” explains Dr. Coonrod. “Without surgical intervention, most dogs with breast cancer die from it. Fortunately, most owned dogs are spayed before reaching sexual maturity, which helps prevent breast cancer.”

Working in collaboration with Drs. Joe Wakshlag, assistant professor in the Department of Clinical Sciences, and postdoctoral fellow Dr. Brian Cherrington, Dr. Coonrod found that amounts of a specific enzyme, called PAD2 “are increased in the lining of the canine mammary gland as the female enters estrus. We also found that levels of this enzyme are regulated by the epidermal growth factor receptor family, which is currently the target of a number of breast cancer drugs for women.”

Besides investigating the function of this enzyme in normal tissue, the researchers are now testing whether PAD2 levels are increased in canine mammary tumors, and whether this increase is linked to one growth factor receptor in particular, HER2. “This is important because women with HER2 positive tumors can be effectively treated with drugs that specifically target this receptor,” says Dr. Coonrod. “We’ve also recently developed a new drug that inactivates PAD2, and this drug also appears to block tumor growth of breast cancer cells. We hope that soon we will be able to begin testing the efficacy of our new drugs on dogs with breast cancer. A combination of HER2 and PAD2-blockers might be particularly effective at blocking tumor growth.”

Related research also involves testing for PADs as markers for early stage breast cancer.

Regarding future cancer research at the Baker Institute, “Our long-term goal is to develop a strong, well-funded companion animal cancer program that helps both animals and people,” says Dr. Coonrod. “We want Baker to be the place to go to study canine and feline cancer.”

Judith A. Appleton, PhD, the Alfred H. Caspary Professor of Immunology, is researching the impacts of the parasitic worm *Parelaphostrongylus tenuis* upon alpacas. “Virtually all white-tailed deer in the northeastern U.S. carry this common parasite,” says Dr. Appleton. Although the deer are unaffected, the larvae are passed in their feces and then picked up by snails. Llamas, alpacas, sheep, and goats acquire the parasite by eating either the infected snails or the grass they have touched.

“The larvae can enter the animal’s spinal cord, where they grow and wreak havoc with the nervous system,” says Dr. Appleton. Symptoms include weakness in the hindquarters, difficulty walking, and inability to stand. Left untreated, the disease can lead to paralysis and death for animals unable to feed themselves. “It’s not in the best interests of a parasite to kill its host,” explains Dr. Appleton, continuing, “but alpacas are not native here, so the parasite is not adapted to them.”

“We collaborated with camelid veterinarian Steve Purdy from the University of Massachusetts, in studying the alpaca’s immune response to this parasite,” says Dr. Appleton. “We found that infected animals improve significantly following treatment with anti-inflammatory and anti-parasitic drugs.” They also found that, when mounting immune responses, camelids produce unusual “heavy-chain” antibodies in response to induced infection. These small antibodies may be able to go where conventional antibodies cannot, making them particularly effective in countering *Parelaphostrongylus tenuis*.

Another study revealed that these heavy-chain antibodies are passed into baby camelids’ bodies via their mother’s first milk. “There is only a short window of opportunity after birth to do this,” explains Dr. Appleton. “Crias that cannot nurse miss out and are at high-risk for developing a variety of infections.”

“This parasite is a huge concern for alpaca owners,” notes Dr. Appleton. “Most treat their animals preventatively with anti-parasitic drugs, however, other intestinal worms then develop resistance to these medications. Developing a vaccine—Dr. Appleton’s long-term goal—could eliminate the need for such medications.
Senior Research Associate Susan K. Bliss, DVM, PhD, studies *Cryptosporidium parvum*, a protozoan parasite that causes enteric disease in mammals, including humans, worldwide. The parasite is transmitted by ingestion of oocysts that are shed in the feces of infected animals. “Importantly, recent studies indicate that infected dairy calves are the major reservoir of *Cryptosporidium parvum* for human infection, which can be fatal in people with compromised immune systems,” notes Dr. Bliss. “Since medications against cryptosporidiosis have limited benefit in either humans or calves, the development of an effective vaccine is important.”

In collaboration with Daryl Nydam, DVM, PhD, an assistant professor in Cornell’s Department of Population Medicine and Diagnostic Sciences, Dr. Bliss has been researching such a vaccine. “We are evaluating a protein from the parasite called CP15. When combined with aluminum hydroxide, such a vaccine may decrease both the transmission and severity of disease in calves.” In recent experiments, vaccinated two-year-old pregnant heifers had significantly higher levels of CP15-specific antibodies in both their serum and colostrum (first milk) compared to unvaccinated control heifers. Subsequently, 40 female and male Holstein calves were randomly fed either colostrum from the vaccinated heifers or control colostrum produced by unrelated heifers.

“Vaccination appears to induce a specific immune response in heifers as antibodies are secreted into their colostrum, and calves absorb these antibodies,” summarizes Dr. Bliss. “We anticipate that the vaccine will be a practical method for conferring protection to calves against cryptosporidiosis. In addition, colostrum containing CP15-specific antibodies may prove valuable for protecting and treating humans with cryptosporidiosis.”

Vicki Meyers-Wallen, VMD, PhD, Dipl. ACT, Associate Professor of Genetics and Reproduction, investigates two inherited canine reproductive diseases, each with a parallel form in humans. One such disease, which occurs in 22 different dog breeds, is SRY-negative XX Sex Reversal. Here, dogs with female sex chromosomes develop testicular tissue and other male organs in utero. As the name suggests, affected individuals have two X chromosomes and lack a Y chromosome. However, their physical characteristics vary. Severely affected dogs develop testicles and externally, a penis. Less affected dogs are hermaphrodites; they develop ovariohsemis (gonads with both testicular and ovarian aspects) and externally, female genitalia. The recommended treatment—removing the entire reproductive tract—is similar to spaying.

To identify the cause, says Dr. Meyers-Wallen, “We are examining the region of the genome that most likely contains the mutation, using next-generation sequencing and re-sequencing techniques. Having narrowed this region from billions of base pairs to two million in affected dogs, we plan to pinpoint the abnormal DNA sequence and then develop a diagnostic test for it.” A second disorder is Persistent Mullerian Duct Syndrome in which externally normal males develop oviducts and a uterus. This disorder occurs in miniature schnauzers worldwide. Approximately 50 per cent of affected dogs have undescended testicles, which are susceptible to testicular tumors. Affected dogs may also develop urinary tract infections and life-threatening uterine infections. Again, removal of the reproductive tract eliminates such problems. “In 2009, we identified the mutation that is responsible for this syndrome in miniature schnauzers, using blood samples from affected dogs, and developed a diagnostic test that detects the mutation in the DNA,” notes Dr. Meyers-Wallen. “By detecting unaffected carriers, this commercially available test can prevent carrier-to-carrier matings, which produce affected males.”

Because the disorders Dr. Meyers-Wallen studies are not always obvious, she is also interested in raising awareness about them among breeders and veterinarians. “If breeders are conscientious, both disorders can eventually be eliminated,” she says. “Used in this way, genetic testing can ultimately lead to the improvement of canine breeds.”

Controlling Cryptosporidiosis

Researching Canine Reproductive Diseases
Research Associate Anna V. Kukekova, PhD, literally goes the extra mile for her research. Traveling regularly to Russia, she works in collaboration with the Institute of Cytology and Genetics of the Russian Academy of Sciences to better understand animal domestication. Starting in 1959, the institute selected farm-bred foxes for tameness. Now 50 generations later, the resultant population is represented by 400 animals. In 1970, the institute began selecting aggressive foxes; there are now 200 of these foxes.

There are differences between genetically inherited tameness and non-genetic, learned tameness, says Dr. Kukekova. “If you took infant wild foxes home and hand-raised them, they might act tame, but their offspring would exhibit wild behavior,” she explains. “By contrast, our genetically tame foxes consistently produce tame pups. They behave much like pet dogs.” Even genetically tame pups reared by aggressive mothers remain tame, notes Dr. Kukekova, adding, “When tame foxes are bred with aggressive foxes, most of the offspring exhibit intermediate behavior.”

Tameness is measured by evaluating the way the foxes respond to people, describes Dr. Kukekova. “The foxes may exhibit behaviors ranging from approaching the human with wagging tails, seeking to be petted, to huddling at a distance, or exhibiting aggression.”

“Our goal is to identify the genes responsible for these behaviors. By analyzing DNA samples from the foxes, we’ve found several regions within the fox genome that are associated with tame behavior,” says Dr. Kukekova. “The most significant loci are located on fox chromosome number 12. However, this region is very large, and now we’re working on narrowing it down to individual genes.”

Tame foxes are not only sociable toward humans, but also toward each other, notes Dr. Kukekova. “Our research may identify genes that have parallel functions in domestic dogs and in people. For example, a disease such as autism may be associated with the lack of certain genes that promote sociability. Understanding the genetic basis of behavior is the ultimate goal of our research.”

Susana Mendez, DVM, PhD, Assistant Professor of Immunology and Infectious Diseases, is researching canine leishmaniasis, a serious disease of dogs and people that is caused by a parasite that is transmitted via the bite of a sandfly. Sandflies themselves may become infected from biting infected dogs.

Over the last decade, leishmaniasis has become established in North America and is on the rise worldwide. “However, we receive few canine leishmaniasis patients at Cornell; the sandflies may not survive northeastern winters,” notes Dr. Mendez. “Dogs from warmer areas are more likely to contract the disease.”

Foxhounds seem particularly susceptible to leishmaniasis. Signs include dry skin, dandruff, hair loss around the eyes and muzzle, open skin sores, and severe weight loss. Diagnosis is confirmed by blood tests. “The disease is generally fatal, since internal organs, especially the kidneys, are irreversibly damaged,” says Dr. Mendez. “While 90 per cent of dogs with leishmaniasis die, a small minority—perhaps those with greater genetic resistance—overcome it.”

Dr. Mendez is studying the antibiotic pyrazinamide—used to treat tuberculosis in humans—for use against leishmaniasis. “This drug is already licensed and is safe, inexpensive, and available in a pill form that is easy to administer,” she reports. “We are now researching chemical analogs that would make pyrazinamide more effective.”

Research on a leishmaniasis vaccine is also underway. “Live vaccines seem to be required to produce a significant level of immunity,” observes Dr. Mendez. “In collaboration with NIH scientists, we have identified salivary proteins of the sandfly that induce a strong immune response. We are now creating a non-pathogenic form of the Listeria monocytogenes bacteria that has been genetically manipulated to produce those saliva molecules.” When injected into the skin, this vaccine could prime the skin against the bite of the infected sandfly so that the response to infection yields a stronger level of immunity. Says Dr. Mendez, “This vaccine has potential to protect both dogs and humans against leishmaniasis.”
Virulent Virus Affects Felines

John S. L. Parker, BVMS, PhD, assistant professor of virology, is researching feline calicivirus, a disease with two faces. “Non-virulent forms of feline calicivirus are common,” says Dr. Parker. “The virulent form is much rarer, yet much more dramatic. Like wildfire, it can spread quickly between cats, then die down just as fast, leaving behind high mortality and devastated cat owners.”

Infection begins when the virus attaches to a specific receptor on a susceptible cell’s surface. “Virulent strains may then undergo rapid changes in shape, enabling them to enter cells faster than non-virulent strains,” explains Dr. Parker. “Receptors are the key to developing our understanding of this disease. Further research will be devoted to linking specific responses to corresponding genetic conditions.”

Dr. Parker is also investigating the genetic basis of calicivirus virulence. “We’d like to combine different parts of virulent strains with non-virulent strains and see what happens,” he says. Toward that end, Dr. Parker is working collaboratively with Leadership Program alumna Dr. Patty Pesavento, a faculty member involved in the shelter medicine program at U.C. Davis. “We found that infected cats often have low blood platelet levels,” he says. “Platelets are rich in receptors, so the virus causes platelets to aggregate, which can lead to internal bleeding. Given our lab observations and Patty’s shelter observations, a clearer picture is emerging.”

The original feline calicivirus vaccine neither protects against the virulent form nor prevents infection. A newer vaccine, developed from one virulent strain, may not always protect cats against other virulent strains, says Dr. Parker. “In addition, such vaccines may prevent disease symptoms, but do not prevent infection,” he explains. “Vaccines that do both are the gold standard; they carry the hope of eliminating the disease. We’d like to see the day when this happens for feline calicivirus.”

Colin Parrish, PhD, the John M. Olin professor of virology, is researching canine influenza, commonly known as dog flu. “The H3N8 influenza virus strain that causes this disease in dogs was found originally in horses. First isolated in 2004 by Dr. Edward Dubovi of the College’s Animal Health Diagnostic Center, the virus was recovered from samples submitted by Dr. Cynda Crawford at the University of Florida. She sought to determine why racing greyhounds were exhibiting high fevers and coughs,” says Dr. Parrish.

By 2004, 100 per cent of Florida’s greyhounds tested positive for canine influenza. “The widespread shipment of greyhounds likely helped in the nationwide dispersal of this virus,” explains Dr. Parrish. Outbreaks were subsequently observed at greyhound race tracks, as well as shelters and kennels in many areas. Disease commonly lasts about two weeks, followed by recovery in most dogs. Occasionally, a dog may die from complications. “The widespread shipment of greyhounds likely helped in the nationwide dispersal of this virus,” explains Dr. Parrish. Outbreaks were subsequently observed at greyhound race tracks, as well as shelters and kennels in many areas. Disease commonly lasts about two weeks, followed by recovery in most dogs. Occasionally, a dog may die from complications. The virus is shed soon after infection, before the dog develops signs of illness, and then for several days after signs begin. Dr. Parrish is currently collaborating on further research with Drs. Jan Scarlett, in Cornell’s Department of Population Medicine and Diagnostic Sciences, and Ed Dubovi. “Initially, we looked at the RNA sequences of the virus to see how it emerged, whether it is evolving to become more specific to dogs, and how we might best control it,” explains Dr. Parrish. “We obtained viruses from shelters and examined their sequences over time, and found that there have indeed been several changes in the virus since 2003, when they were first collected.”

A recently licensed vaccine prevents signs of disease and some infections, but only if administered before dogs are exposed to the virus. “Unfortunately, this vaccine may not work well in shelter situations, where new dogs are constantly arriving,” notes Dr. Parrish. “We currently recommend it for high-risk dogs, such as frequently-boarded or show dogs.”

Now the researchers are investigating how the host range of the virus varies and how the virus determines which animals it will infect, says Dr. Parrish, adding, “Answers to these questions, along with our studies of the canine parvovirus—another recently emerged virus that was transferred to dogs from cats—will provide the information required to prevent future viral emergences and pandemics.”

Controlling Canine Influenza

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

Colin Parrish, PhD
John M. Olin Professor of Virology

Faculty represented:

January 2009 – June 2010: Faculty Accomplishments

Dr. Greg Acland
Dr. Acland co-authored 13 research papers on the genetic basis of diseases in dogs and secured two major grants to support his research, one from the NIH and another from the Foundation for Fighting Blindness. Together with Dr. Anna Kukekova, he published new findings on mapping of fox and mink genomes and won a third prize for Roche for two gibbgases of sequencing of fox cDNA.

Dr. Doug Antczak
A DVM graduate student in Dr. Antczak’s laboratory, Dr. Peggy Brosnahan, was the recipient of a five-year NIH K award series grant for her PhD studies on pregnancy immunology in the mare. Dr. Antczak was honored with the Distinguished Veterinary Immunologist Award, presented by the International Union of Immunological Societies. His acceptance lecture, presented at the conference held in Tokyo, was entitled “Horses for Courses.” In addition, Dr. Antczak was inducted into the University of Kentucky Equine Research Hall of Fame in Lexington Kentucky and was named Special Professor by the University of Nottingham. Dr. Antczak’s group contributed to the Science publication on the horse genome sequence. Dr. Antczak also collaborated with Professor Samantha Brooks in the Department of Animal Science, published a report describing the genetic basis of Lavender Foal Syndrome. The team also developed a diagnostic test for the disease that is being offered through Cornell’s Animal Health Diagnostic Center.

Dr. Judy Appleton
Dr. Appleton assumed leadership of the Baker Institute and the Feline Health Center and provided oversight for the more of the FHIR to the Baker campus. She secured a grant from the NIH for her research on regulation of immunity during nematode infection by nematophores. The first description of this phenomenon was published by her group and selected for interest by the Faculty of 1000 and was described in Nature Immunology. Dr. Appleton was invited to present research findings at the meeting of the International Nematode Society in Bruges and the Laboratory of Parasitic Disease at the NIH. She made presentations on meningial worm disease in camels to the Pennsylvania Allen Owners and Breeders Association and the Greater Appalachia Llama Association.

Dr. Susan Bliss
Dr. Bliss secured a grant from the NIH to support her research on liver injury during parasitic infection and published her most recent findings from this project in the journal Hepatology.

Dr. Scott Coonrod
Dr. Coonrod served on review panels for the NIH and Department of Defense. He was invited to speak at the Lake Shalitaka Conference, “From Oxygen to Cancer and the Scientific Think Tank sponsored by the Alliance for Contraception in Cats and Dogs, in Bozeman. His post-doctoral fellow, Dr. Xuesen Liu, continued in his role as Director of the Cornell Center for Wildlife Conservation and described in Nature Immunology an extension. Total project direct costs: $25,000.

January 2009 – June 2010: Active Faculty Funding

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

Team members:
Amy Escobar, Research Associate
Orly Goldenstein, Research Support Specialist
Jennifer L. Johnson, Research Support Specialist
Julie Jordan, Research Technician
Susan E. Pearce-Kelling, part-time Research Support Specialist
Svetlana V. Tenenkh, part-time Research Scientist
Meredith Sherrill, Veterinary Student,
Summer 2010 Leadership Program
Pavee Pathie, Veterinary Student,
Summer 2010 Leadership Program

Grants:


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

Team members:
Jennifer L. Sones, Postdoctoral Fellow (2009), Post-DVM PhD Candidate (2010)
Margaret M. Brosnahan, Post-DVM PhD Candidate
Leela E. Noronha, Post-DVM PhD Candidate
Rebecca M. Harman, Research Support Specialist
Donald C. Miller, Research Support Specialist
Joy T. Deng, Undergraduate Student (2009), Technician (2010)

Marine deMareck, Undergraduate Student
Mackenzie Adams, Summer 2009 Havemeyer Fellow
Kate Hugger, Summer 2009 Havemeyer Fellow
Lindsay Goodale, Summer 2010 Havemeyer Fellow
Kerrie Winstanley, Summer 2010 Havemeyer Fellow
Kate Hugger, Summer 2010, VIP Program

Grants:
"Characterization of T lymphocyte modulation in pregnancy.
National Institutes of Health, NSRA Grant # 5 R01 HD055794.
Current year direct costs: $72,756. Total project direct costs: $211,194.


Foundation Support to Dr. Antczak


Judith A. Appleton, PhD
Alfred H. Caspary Professor of Immunology
Laboratory of Murine Immunity, Nematodes and Immunopathology

Team members:
Lisa K. Blum, PhD Candidate
Neila Gehresballe, PhD Candidate
Lucille F. Gagliardi, Research Technician
Emily Bick, Undergraduate Student
Tanara Maehr, 2010 VIP Program
George Theodoropoulos (2009), Sabbatical Visiting Professor, Agricultural University, Athens, Greece
Na Young Kim, M. Eng. Student
Lucas Dawson, Undergraduate Student
Shirley Cheng, Undergraduate Student

Grants:


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

Team members:
Diana Douglas, Research Technician
Meleena M. Hinchman, Research Technician
John Loftus, Veterinary Student

Grants:


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

Team members:
Bai Kan, Research Associate
Brian D. Cherrington, Postdoctoral Associate
Eric P. Morrow, Postdoctoral Fellow
Xuesen Zhang, Postdoctoral Associate
Boram Kim, PhD Candidate
John L. McElwee, PhD Candidate
Lynne J. Arquih, Research Support Specialist
Ashley M. Palmer, Research Technician

Grants:


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

Grant:

Douglas D. McGregor, PhD
Director of Leadership Program and Training Initiatives

Team members:
Kathleen Williams, Administrative Assistant
Cynthia Kwong, 2009 Leadership Program Assistant
Caleb Chan, 2010 Leadership Program Assistant

Grants:

Grants:


Foundation/Corporate Support to Dr. McGregor


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

Team members:

Wenhu Wu, Postdoctoral Associate
Lu Huang, PhD Candidate
Meleena M. Hinchman, Lab Manager/Research Technician
David Byun, Undergraduate Student
Eliese Friedel, Undergraduate Student
Patricia Green, Undergraduate Student/Honors thesis
Byung Joo Nahm, Undergraduate Student
Christian Osum, Undergraduate Student
Jolanda Verhofst, Undergraduate Student, Summer 2009 Leadership Program
Anne Kimmorten, Veterinary Student, Summer 2010 Leadership Program
Maria Warren, Summer 2010, VIP Program
Laura Manna, Visiting Scholar (2009), Universita di Napoli Federico II, Italy
Patricia Wolkmer, Volunteer

Grants:


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

Team members:

Shashikant Pujar, Research Associate
Shana Mintz, Undergraduate Student

Grants:


2008–2010. Principal Investigator. “Antigenic structure of parvovirus type 2 capsids and antibody escape mutants” (with M. Ehrlich, University of Tel Aviv, PI). National Institutes of Health, Grant # 5 R01 AI033486. Current year direct costs: $0, no cost extension. Total project direct costs: $38,575.


2009–2011. Principal Investigator (US). “Development of a plasmid-based reverse genetics system for the Bluetongue Virus and Epizootic Hemorrhagic Disease viruses to allow a comparative characterization of the function of the NS3 virion protein in viral egress” (with M. Ehrlich, University of Tel Aviv, PI). BARD, Grant # RS-4192-09. Current year direct costs: $40,830. Total project direct costs: $125,000 (Cornell).

John S. L. Parker, BVMS, PhD
Associate Professor of Virology Laboratory of Virology: Feline Caliciviruses and Mammalian Orthoreoviruses

Team members:

Irene (Alex) Amaro, Postdoctoral Associate
Jae-Won Kim, Postdoctoral Associate
Susanne Kaufur, PhD Candidate
Robert J. Ousboff, DVM/PhD Candidate
Brenda G. Werner, Research Support Specialist
Brian M. Ingel, Research Technician
Jegath Athilagham, Undergraduate Student
Amanda Fischer, Undergraduate Student
Joseph Graterol, Undergraduate Student
Natalie Killen, Graduate Student
Susan Zhang, Graduate Student
Dana Anz ча, Undergraduate Student
Stuart Davenport, Veterinary Student, Summer 2009 Leadership Program
Sanam Fakhnoud, Veterinary Student, Summer 2010 Leadership Program
Andrea Lopez-Cepero, 2010 Leadership Alliance Program

Grants:


Grants:
Westminster 2010

Baker Institute advisory council members, Institute friends, Cornellians and Cornell supporters discussed the strength and beauty of the purebred dog, the prestige of the Westminster Kennel Club Dog Show, and Cornell's commitment to research and service to benefit the canine community at the 2010 Westminster annual attraction. During a reception hosted by the University, more than 100 dog enthusiasts were introduced to the mapping of the canine genome, a tool capable of using canine genetics to better understand inherited diseases, like cancer, diabetes, and arthritis. In addition, a variety of presenters, including Peggy Reed, an accomplished show judge and Baker Advisory Council member; show dog owner and friend of the Baker Institute Renee Idone; and Veterinary College faculty member Dr. Tom Kern also discussed ideas for prepping for the show, being in the show ring, and understanding the road to Westminster.

During the presentation, Idone described how dogs qualify for Westminster and the roles of the owner and handler. Reed shared her experiences as a show judge, including what a judge looks for when selecting winners, how to compare different breeds, what the audience should notice when watching, and why Westminster is so prestigious. Dr. Kern discussed the screening of purebred dogs for genetic diseases at the Cornell University Hospital for Animals and the importance of surveillance for inherited disorders.

“I invite you to think about how these beautiful and diverse breeds are helping us to improve animal and human health,” said event co-host Dr. Michael I. Kotlikoff, Austin O. Hooey Dean of Veterinary Medicine. “Genetics may be the area of veterinary medicine that holds the most promise for the future, and we at Cornell are proud to be leading the way in this comparative medicine. So when you watch the Westminster Kennel Club dog show and when you hug your own dogs, you are sharing their experiences as a show judge, including what a judge looks for when selecting winners, how to compare different breeds, what the audience should notice when watching, and why Westminster is so prestigious.”

A trio of awards

Dr. Douglas Antczak, the Dorothy Havemeyer McCornville Professor of Equine Medicine at the Baker Institute for Animal Health, was named the Distinguished Veterinary Immunologist of 2010 by the Veterinary Immunology Committee of the International Union of Immunological Societies. Offered once every three years, the award was presented in Tokyo at the International Veterinary Immunology Symposium, where Antczak, who is only the sixth person and the first Cornellian to receive the award, presented a lecture. The award recognizes his work in the area of veterinary immunology, and specifically in horse pregnancy immunology, as well as his dedication to training future scientists and his ability to attract NIH funding by successfully demonstrating the relevance of his work to human medicine.

This recognition follows on the heels of two other awards: Antczak was inducted into the University of Kentucky Equine Research Hall of Fame in October 2009 and was more recently selected for Cornell University's Polo Club Wall of Honor. A Connecticut native, Antczak joined the faculty at the Baker Institute in 1979. In 1994, he became the director of the Baker Institute for Animal Health, a post he held for 15 years. For the past 30 years, Antczak has conducted research in equine immunology, genetics, and reproduction. For more than 15 years, Antczak was also a major participant in the Horse Genome Project. As a Cornell student, Antczak was a member of the Polo team, serving as captain his senior year.

“I have supported the team financially and morally for many decades,” said Antczak, who is also the father of two Cornell polo team alumni. “Polo is the most wonderful game. It combines an interest in horses with athletics. At Cornell, it is even more wonderful as the University removes all financial barriers to the game.”
Mission: Operation Control
Research to understand cancer hopes to control chaos

Cancer is a familiar villain to most of us, touching more than half of American men and one-third of American women. Linked to damaged DNA, cancerous cells replicate uncontrollably and invade healthy tissues, according to the American Cancer Society.

Researchers and new hypotheses inspire hope, encouraging those suffering, survivors, and the people who love them to imagine a cancer-free life. The Judy Wilpon Professorship of Cancer Biology at the Baker Institute for Animal Health is yet another reason to hope. Initially funded through the Judy and Fred Wilpon Family Foundation, the endowed position was created in 2009 with a $2 million gift and a request to all those who also hope to conquer cancer: help us raise $1 million more to permanently endow the position.

“Well almost $600,000 of the final million raised, we are in the homestretch,” said Dr. Judy Appleton, interim director of the Baker Institute of Animal Health. “Endowing this position ensures that we can leverage a better understanding of the biological nature of cancer to gain greater control.”

Pioneer Award Recognizes Plan to Target Tumors

Dr. Scott Coonrod will hold the endowed position. He and his team have produced data that indicates that estrogen and progesterone are important factors in growth of canine mammary tumors. They are currently investigating the clinical correlation between the expression of hormone-associated factors and tumor progression, Coonrod explained, adding that he hopes that the results of their work will be used to develop strategies to block tumor growth.

“Ideally, no one should have to endure the pain and devastation caused by cancer,” said Wilpon, who has lost five Golden retrievers to this disease. “Losing a pet to cancer is awful, and it is my hope that by supporting the research of the Baker Institute, fewer people and animals will suffer this fate. The answer may be in genetic research or in prophylactic care, but scientists are getting closer and closer to achieving this goal. It is my hope that this gift will expedite the research and the eventual discovery of a cure.”

The Wilpons’ gift also provided the Sprecher Institute with funds for programmatic support for the Institute and will match dollar for dollar (up to $1 million) other gifts to the Sprecher Institute for endowment of two oncology residencies.

To join the Wilpon family and the Baker Institute in fighting cancer, please contact Kevin Mahaney at km70@cornell.edu.

Judy Wilpon, who has been a member of the advisory council at the Baker Institute since 1994, is a firm believer in education. The Judy Wilpon Professorship of Cancer Biology will encourage life-saving research and raise awareness of canine cancers. “The Baker Institute’s facilities, commitment to conquering cancer, dedication to first-class research, and educational mission were all instrumental in my decision to establish the professorship.”

Dr. Alexander J. Travis, associate professor of reproductive biology at the College of Veterinary Medicine, was presented with the National Institutes of Health (NIH) Director’s Pioneer Award at the Fifth Annual NIH Director’s Pioneer Award Symposium on September 24, 2009. The award supports individual scientists of exceptional creativity who propose pioneering and possibly transforming approaches to major challenges in biomedical and behavioral research, according to the NIH’s web site.

Dr. Travis was recognized for his work developing an energy-producing platform that could be used to power a variety of implantable medical devices. Based on the design of a sperm’s tail, this technology involves attaching metabolic enzymes to a solid support. If the entire pathway can be completed on the device, it could use freely-circulating glucose as fuel. These hypothetical devices could be used to deliver drugs precisely where they are needed in a patient’s body, for example, the site of a tumor.

“We’re borrowing the sperm’s strategy for locomotion,” said Dr. Travis, who conceived the idea after noting that many proteins on the sperm’s tail are tied down to solid structures within the cell, but still function. By modifying the targeting domains responsible for this binding, he manipulated the first two proteins of the pathway to stick to a single man-made surface and demonstrated that they functioned in series. “We believe it is one of the first, if not the first, example of building sequential steps of any biological pathway on a man-made surface.”

Chemistry and Biology published this information in the issue released on September 25, 2009.
Doug McGregor:
Training Veterinary Researchers for the Future

The impact made by Douglas McGregor, MD, Dr. Phil., upon the Baker Institute will be felt for decades to come. As director of the institute from 1976 through 2011, Dr. McGregor was not only a lead researcher in cellular immunity; he also transformed the institute’s funding paradigm, insuring a more secure future. As current director of the Leadership Program for Veterinary Students, he has seeded both the veterinary and human medical communities with top-notch researchers, enhancing both the quality and direction of today’s research.

Following Dr. James Baker’s sudden death in 1975, Dr. McGregor became the institute’s second director. A medical doctor by training, he had been studying human and animal diseases. “I felt like a kid in a candy store when I arrived here in 1976; there were so many fascinating diseases I hadn’t known about,” recalls Dr. McGregor. “At that time, nearly every animal vaccine in use was either developed or produced by researchers who had come through Baker. Many of those vaccines are still in use today.”

But, although the Institute’s research was solid, its funding model was tenuous. As the first director of the Institute, Dr. Baker was also the sole fundraiser. “He was an entrepreneur model was tenuous. As the first director of the Institute, Dr. Baker was also the sole fundraiser. “He was an entrepreneur by training, he had been studying human and animal diseases. “I wanted to see them succeed. And succeed they did!” recalls Dr. Lust. “It turned out to be a good fit. I’ve now been here for 42 years! Over that time the Institute has nearly doubled in size, from six professors to 11. My project began in 1968 and ended in 2010, making it one of the longest running at Baker.”

Dr. Lust’s research has addressed the genetics, diagnosis, pathogenesis, and treatment of hip dysplasia and osteoarthritis in dogs. “We’ve found that this disease has a complex inheritance with contributions from several genes, along with environmental factors—such as food consumption—that affect the rate of growth,” he notes. “We also found that the signs of disease occur not only in hip joints, but also in shoulder, knee, and lumbar vertebral joints.”

Initially, the only diagnosis available for canine hip dysplasia was via x-ray. “Hip dysplastic dogs were often misdiagnosed as normal,” recalls Dr. Lust. “When the disease did show up, it wasn’t until age two—far too late to make responsible breeding decisions.”

Over the years, the program has built strong partnerships with the NIH and various industrial sponsors. “Rather than just asking them for money, we involve them directly in the research team came up with the dorsolateral subluxation (DLS) test. Unlike an ordinary radiograph procedure, in which the anesthetized dog lies on its back, the DLS test utilizes the same x-ray machine, but places the dog’s knees into plastic holders in a supported kneeling position, which is more similar to a normal walking or running posture. The DLS test is not only much more accurate than a regular X-ray, but it can also detect hip dysplasia in a six- to eight-month-old dog—while there is still time to avoid breeding carriers to other carriers,” notes Dr. Lust.

“Although we had long known that this disease had a genetic component, the available technology initially didn’t allow us to do much with that knowledge,” says Dr. Lust. “Three colonies of dogs helped advance his research. The first was a colony of normal Labrador retrievers with a low frequency of hip dysplasia. A second Labrador retriever colony all exhibited hip dysplasia. A third colony consisted of normal racing greyhounds. “When we bred the hip dysplastic labs with the normal greyhounds, the first filial generation (F1) all appeared normal—however, they were all carriers of the genes for hip dysplasia,” explains Dr. Lust. “Back breeding them to the normal greyhounds resulted in normal offspring, but when the F1 dogs were back-bred to the hip dysplastic labradors, their F2 offspring had a very predictably 75 percent chance of manifesting hip dysplasia.”

For the past decade, Dr. Lust has been involved in collaborative research to identify the specific genes responsible for canine hip dysplasia. “We’ve found that there are many genes involved, and as a result, many genetic markers—some of which we’ve discovered,” he notes. “We want to identify nucleotide sequences of DNA that can be the basis of a blood test for either normal or hip dysplastic dogs, in an attempt to identify the genes related to trait expression. We would like to identify the pertinent genes, and ultimately, the biochemical mechanisms responsible for the development of hip dysplasia and osteoarthritis.”

Prior to retiring in July 2010, Dr. Lust taught osteoarthri- tis to veterinary students for two decades. “The students seemed to get smarter every year!” observes Dr. Lust. “Many of my graduate students went on to have exemplary careers of their own. And, while I miss the contact with these outstanding students, I’ve welcomed the opportunity to do more writing.” Dr. Lust is currently working on his autobiography, as well as several collaborative publications on DNA testing for hip dysplasia, geared for various genetics and veterinary journals.

“Hip dysplasia in dogs has turned out to be a model for human hip dysplasia, and there are many similarities at the biochemical level,” notes Dr. Lust. “However, the goal of my research has ultimately been to benefit dogs.”
Memorial Gift Program

Abundance of Care Pet Hospital: Larry Mauer, DVM
Adirondack Animal Hospital: James R. Glenderung, DVM and David Judge, DVM
All Pets Medical Center
American Animal Hospital: Brian T. Voynick, DVM
Amsterdam Animal Hospital: John A. Contino, DVM
Amy Leibbeck, DVM
Animal Care Center of Sonoma County: Nancy D. Kay, DVM
Animal Care Clinic: Merrill K. Johnson, DVM
Animal Clinic of Mt. Vernon: Alan Meyer, DVM
Animal General
Animal General of East Norwich
Animal General: Steve C. Feldman, DVM
Animal Hospital of Kent: Mark I. Feldman, DVM
Animal Hospital of Niskayuna: Ronald Scharf, DVM
Animal Kind Vet Hospital: Mark C. Gibson, DVM
Animal Medical Center: Thomas K. Liebtrau, DVM
Animal Medical of New City: Howard J. Gittelman, DVM
Animal Medicine & Surgery of Little Neck: Edward Parver, DVM
Aqueduct Animal Hospital: Franklin Rapp, DVM
Arlington Dog & Cat Hospital: Carmen Scherzo, DVM and Herbert Leary, DVM
Arlington South Veterinary Hospital: Angela S. Miligan, DVM
Arrowhead Veterinary Clinic: John W. Paeplow, DVM
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Baldwin Animal Hospital: Neal J. Saslow, DVM
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Blue Cross Small Animal Clinic: William J. Brown, DVM
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Bravaciff Manor Animal Hospital: Jeffrey J. Meyer, DVM
Brocton Animal Hospital: Ronald Hirschberg, DVM
Brook Farm Veterinary Center: Donald E. Kanouse, DVM
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Burlington Veterinary Center: Richard K. Esherick, DVM
Burstone Animal Hospital: Debra M. Eldredge, DVM and Roger C. Thompson, DVM
Cape Ann Veterinary Hospital: Jeffrey B. French, DVM and Barbara J. Reid, DVM
Carnegie Hill Veterinarians: Alexander J. Miller, DVM
Central Animal Hospital: Michael Wolts, DVM
Central Veterinary Hospital: Michael S. Hardaker, DVM
Central Virginia Veterinary: Samuel Baum, DVM
Centrevalle Animal Hospital: Fred G. Garrison, DVM
Clark Animal Care Center: Amy D. Carpenter, DVM and Kathleen E. Wakefield, DVM
Clarkson Veterinary Hospital: Jess Buxtry, DVM
Clear Lakes Animal Wellness: Megan Williams, DVM
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Companion Animal Hospital: Earl J. Mummert, DVM and Margaret C. Mummert, DVM
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Eastview Veterinary Clinic: Elizabette H. Cohen, DVM
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in memory of Bitsie and Lucy
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in memory of Taffy
Mr. and Mrs. Albert Beck
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Dr. and Mrs. Albert Beck
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Margo Berger (in memory of Kyla)
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in memory of Bailey, Kelly, and Lacy
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all of her great dogs
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in memory of Jewel B. Lunna
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Joan Mizer
Richard Montali
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Mr. and Mrs. Denton Nichols
(in memory of Dusty and Maxi)
John North
C. Michael Norton
Elisabeth Oderhofer
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in memory of Bordon’s NIK of Time;
in honor of Bill’s 70th Birthday,
Shannon Paladino and Carlos Tullis’s
wedding
Rob Parker and Peter Rogness
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Jerome Payton
Pamela Reis (in memory of Deybar
Inspector Chaseaux)
Mr. and Mrs. David Rojek
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Christy Saltstein (in memory of Charlie)
Sara and David Sanders
Robert Scalise (in memory of Anshu)
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in memory of Oradell Animal Hospital
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Spring Hill Kennels
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Bruce Wigler
(in memory of Mary Johnson)
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Heather, and Charlie)
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Bruce Wigler
(in memory of Mary Johnson)
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Mr. and Mrs. Jeffrey Beck
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Peggy Ashley (in memory of Samantha)
Shealdon Annan
Carol Aspnelester (in memory of Frankie)
Patricia Astemborski (in memory of Grenski)
Diane Attenborough (in memory of Chaplin)
Elaine Aubrey (in memory of Ella)
Barbara Auerbach (in memory of Bailey)
Mr. and Mrs. Michael Auferro (in memory of Dundee)
David August
(in honor of Dr. Christine Newman)
Terry Awtrey (in memory of Bella)
Jo Ann Aymar
Robin and Randy Ayoub (in memory of Steven Nachsin)
Elleen Azzaro (in memory of Wishbone)
Helen Babson (in memory of Patty)
Susan Barlalato (in memory of Benny)
Mr. and Mrs. Michael Barde (in memory of Harley)
Sylvia Bailey (in memory of Sandy)
Katrina Bailey (in memory of Sandy; in honor of Amber)
Mark Bain (in memory of Phoebe)
Mr. and Mrs. John Baird (in memory of Jake)
Coral Baker (in memory of Oliver)
Angela Baker (in memory of Steven Hall, in memory of Buttons, Troy, Harley, Sparky, and Dotty)
Elisabeth Balasqui
Cynthia Baldwin
Dan and Vicki Ball (in memory of Kaia)
James Ball (in memory of Mollie and Molly)
Bazarewski Family (in memory of Peri)
Beacons Painted Products (in memory of Spurio)
Mr. and Mrs. Jerry Beck (in memory of Rizzy and Maggie)
Susan Beck (in memory of Sparky, Nyneve, and Theo)
Gloria Becker (in memory of Grace, V.J., and Willie)
DaraLyn Bedia (in memory of Pebbles)
Karen Beech (in memory of Gus Gra)
Mr. and Mrs. Jeffrey Bebront (in memory of Colonel Sam)
Mr. and Mrs. Robert Behun (in memory of Roman)
Karen and Eric Beli (in memory of Stella)
Carol Bell (in memory of Abbey)
Liette Belit (in memory of Maggie Mae)
Diane Behasuer (in memory of Emanuel)
Mr. and Mrs. Raymond Bendici (in memory of Owen)
Joan Bendici (in memory of Owen)
Mr. and Mrs. Joseph Bennett (in memory of Samson)
Nancy C. Berrett (in memory of Bennett’s IV)
Todd and Alex Bennett (in memory of Madison)
Mary Bent (in memory of her dogs and Angela)
Mr. and Mrs. Clifford Benson (in memory of Magnam)
Jennifer Benson (in memory of Kona)
Judith Benson (in memory of Clyde)
Anne Benson (in memory of Murphy)
Judith Berkeheimer (in memory of Normal and Olive)
Dr. and Mrs. Jay Berkowitz (in memory of Kobe)
Elaine Berman (in memory of Blossom)
Eric Bernabe (in memory of Butch and Taza)
Mr. and Mrs. Henry Bernier (in memory of Dusty)
Karen Berson (in memory of Razzzy, Uhuru, and Bailey)
Lori Bertone (in memory of Lexie)
Martyn Besner (in honor of Fay Fayerman)
Karen Besner (in memory of Ricky)
Joanne Best (in memory of Besie, Renufer, and Dilly Dog)
Judy Betz (in memory of Cleo)
Lisa, Steven and Chelsea Berlincucca (in memory of Nina)
Mr. and Mrs. Les Beyer

Mr. and Mrs. James James (in memory of Koko and Masty)
David Edward Tyrell
Kristina Tysosewicz
David Van Hart (in memory of Bailey)
Mr. and Mrs. Clatus Van Zile (in memory of Kandi)
Alena Verderame (in memory of Webster)
Mr. and Mrs. Joe Vogi (in memory of Benjamin)
Mr. and Mrs. Henry Wagner (in memory of Dr. DuBois L. Jenkins)
Mr. and Mrs. Robert Walin
Thomas Wall and John Oliver (in memory of Toby and Ajax)
Mr. and Mrs. David Walowitz
Mr. and Mrs. Harry Ware (in memory of Dr. Caroline M. Codley; in honor of Mike, Pat, and Paul Coffey)
Mr. and Mrs. Joseph P. Webber (in memory of Duke, Princess, and Duke)
Mr. and Mrs. Stephen Weidman
Mr. and Mrs. Roland Weigel
Janet White
Susanna White (in memory of Patsy and Taisha)
John Whiteman (in memory of The Ems N Wippin 1988 Trust)
Joanne Wilson (in memory of MacDuff)
Lynda Williams (in memory of Kirah)
Lynne Williams (in memory of Mary Jane and Bob Engman and dear dogs Ben and Amy; in honor of Franace and Pippa)
Ronald Willis (in memory of Jake and Sam)
Thomas Wilson (in memory of Meeka)
Meyer Woldin (in memory of Zack)
Betsy and Bob Woods (in memory of Duchess, Miss Muffet, and Parker)
Diane Wall (in honor of Dr. Phil Saxton)
Steven Yellen and Karen Leeks (in memory of Ollie, Nutmeg, and Kimbo)
Wen Yuan
Mr. and Mrs. Jack Zakim (in memory of Oreo, Miss Q, Natasha, Annie, and Cruiser)
Galina Bezman (in memory of Teddy)
Jan Biemkowski
Melissa Bilodeau (in memory of Honey, Abby, and Fin).
Mr. and Mrs. Thomas Ritter
(in memory of Rex, Frankie, and Finn)
Ralph Bivona (in memory of Macho)
Ann Blair (in memory of Foxy)
Sandra Blanco (in memory of Ginger
Puppy, Pip Squeak, and Chester)
Richard Bleman (in memory of Ruby)
Margaret Bliss
Susan Bliss (in memory of Shadow)
Dianne Bloch and Joe Plano
(in memory of Sam)
Donna and Jeff Bloomberg
(in memory of Smilla and Maggie)
Candy and Michele Boderick
(in memory of Tyler, Jayla, and Questie)
Mr. and Mrs. Kurt Boehm
(in memory of Isaac)
Carol Bogle (in memory of Morgan)
Philip Bond
Lobby Bonith (in memory of Ace)
Hedi Bonnoro (in memory of Mister)
Stanley Boots (in memory of Whitney)
Mr. and Mrs. Marcus Borkiere
Cynthia Borowski (in memory of BooBoo)
Mr. and Mrs. Roger Bossett
Joan Bowker (in memory of Pepi)
Ed Boylan (in memory of Michael)
Mr. and Mrs. Samuel Boszella
(in memory of Max)
Mr. and Mrs. Joseph Brecci
(in memory of Irish)
Mr. and Mrs. Richard Braksator
(in memory of Zeke)
Suze Branch (in memory of Winnie
and Bally)
Gail Braverman (in memory of Blake)
Mr. and Mrs. James Brennan
(in memory of Heather and Fudgee)
Patricia Brew (in memory of Layla, Augie, and Mimsy)
Karen Brickett (in memory of Teddy)
James Bridges (in honor of Scott and Joanne Hemenway)
Mr. and Mrs. Edwin Bright
(in memory of Bright, Square and Page)
Mr. and Mrs. Leonard Brinkman
(in honor of Bellas continued good health)
Christine Brinner (in memory of Smokey)
Jereyn Brozman (in memory of Sheena)
Mr. and Mrs. Jim Bromtead
(in memory of Brandy and Harley)
Mr. and Mrs. Richard Brown
Mr. and Mrs. Richard Brown
(in memory of Chamar and Casey)
Carol Ann Brown (in memory of William H. Bartle and Audrey Temazcan;
in memory of Abby, Journey, and Jack)
Daniel Brown (in memory of Barney)
Kimberly Brown (in memory of Tom)
Mr. and Mrs. Robert Brownstein
(in memory of Nikki)
Hein Bruhaker
Joseph and Edith Bruce
(in memory of Bally)
Mr. and Mrs. Timothy Bruck, Sr.
(in memory of Sprite)
Judy Brunder (in memory of Mia)
Jan Bruno (in memory of Buster and Anna)
Eileen Bruns and Christine Newman
(in memory of Murphy)
Jamie Brytis (in memory of Hilde Voeler)
Donna Buccerrelli (in memory of Yuki)
Barry Buchalter (in memory of Bengi)
Barb Buchmeyer and Green Hills
Harvest, LLC (in memory of Rip)
Raymond Buck (in memory of Cleo,
Shilo, and Sneakers)
Larry Bulson and Family
Michael Bukowski-Thall
Elizabeth Bullock (in memory of Chelsea)
Mr. and Mrs. John Bunting
(in memory of Tarnu)
John Burke
Mr. and Mrs. Patrick Burke
(in memory of Ace)
Paul Burleson (in memory of Cary)
Lora Lee Burnett
(in memory of Alfred Zerries)
Gerry Burstein and Jim Harris
(in memory of Bill Begell)
Pamela Burton (in memory of China)
Emily Butche (in memory of Mitzy)
Mr. and Mrs. Gary Butterfield
(in memory of Grantham)
Ethel Butterfield (in memory of Dr. DuBois L. Jenkins)
Mr. and Mrs. John Buvis
(in memory of Bratus)
Robert Byles (in memory of Jake)
April Cady (in memory of Hamilton
Animal Hospital)
Christine Calamia
(in memory of John Tavano)
Mr. and Mrs. Ralph Calkins
(in memory of all their dogs)
Carol Canello (in memory of Jerry)
Edward J. Canelli (in memory of Missa)
Mr. and Mrs. Robert Canning
Margaret Capobianco
(in memory of Beau)
Mr. and Mrs. Mark Caporale
(in memory of Gigi)
Christine Cappabianche Carter
(in memory of Mookie)
Carr Cappadona
Mr. and Mrs. Donald Capra
(in honor of Patsy and Peter Hollister)
Megan M. Carey (in memory of Mac)
Mr. and Mrs. Michael Carfagna
(in memory of Moe)
Mr. and Mrs. Anthony Caria
(in memory of Sir George, Dillon,
and Bailey)
Carlene Family (in memory of Oreo)
Marie Caramellia
Dr. and Mrs. Leland Carmichael
(in memory of Shadow)
Sherelee Carpenter
(in memory of Gretsky and Rommy)
Sheila Carroll (in memory of Harley)
Dorothy Carson (in memory of Shady)
Troy and Shernie Carson
(in memory of Logger)
Jayne and Patrick Caruso
(in memory of Khushi)
Mr. and Mrs. James Cascardi
(in memory of Sasha)
Diane and Ralph Castillo
(in memory of Hershey)
Christine Castagna
(in memory of Jaspers, Lupe, and Betsy)
Katleen Catalano
(in memory of Foxie)
James Catalanzo
(in memory of Grantham)
Catskill Glen Club
(in memory of Dr. DuBois L. Jenkins)
Claudia Cauchard
(in memory of Tiger and Bear)
Eleanor Cauley (in memory of Samantha and Hannah)
Denise Ceravolo (in memory of Arkain)
Maryalice Chaulet
Florence Chaminighi
(in memory of Molly)
May Chan (in memory of Maxamillion)
Chebaco Kennels (in memory of Hank)
Bobby Cechchi (in memory of Bommer)
Anna Cheek (in memory of Milo)
Mr. and Mrs. William Cheeseman
(in memory of JD, Roxy, Sonny, Lucky,
Jax, Fritz, and Tucker)
Jean Cherualt (in memory of Penny)
Betty and Stephen Cherico
(in memory of Nook and Lexie)
Marisa Chieffo (in memory of Cyrus)
Sue Christiansen (in memory of Sophie)
Natalie Churack
(in memory of Rocky and Shadow)
Jo Ann Ciococcio (in memory of Gino)
Roy Cinq-Mars (in memory of Riley)
Joanne Cisek (in memory of Bacchus)
Jane Clark
Amy Clark (in memory of Summer)
Christina Clark
Franklin and Winifred Clark
(in memory of Dr. DuBois L. Jenkins)
Rae Clark
(in memory of Beau, in honor of Smudge)
Mr. and Mrs. Donald Clarke
(in memory of Brandi and Molly)
Mr. and Mrs. Gene Conlin
(in memory of Bo)
Dr. and Mrs. William Clift
Terri Clingerman (in memory of Moe)
Mr. and Mrs. Scott Clippinger
(in memory of Max and Animal Hospital)
Mr. and Mrs. James Gross
(in memory of Lexi)
Kevin Clove (in memory of Babba)
Deborah and Michael Coad
(in memory of Quincy)
Carola Coburn
Angela Richard David Cochran
(in memory of Mocha)
Mr. and Mrs. Martin Cohen
(in memory of Fran Maier and Cassie)
Synde Cohen (in memory of Midnight
and Nathan)
Mr. and Mrs. Michael Cohen
(in memory of Jake and Simmone)
Estelle Cohen (in memory of Doctors
and Stuff of Gepsonrd Animal Hospital)
H. Rodgin Cohen
(in memory of Mingus and Orton)
Howard Cohen (in honor of Dr. Alan Baum)
Daniel Colaprete
(in honor of Dr. Jess Battery)
Mr. and Mrs. Mark Cole
(in memory of Buddy, Misty, and Samuel)
Mr. and Mrs. David Colgan
(in memory of Brandi)
Grace Colban
(in memory of Shadow, Chevie,
Misty, Cocoa, and Penny)
Mr. and Mrs. Robert Condon
(in memory of Jackson and Chapin)
Linda Conerr
(in memory of Babba and Chester)
Mr. and Mrs. Gene Conlin
(in memory of Clyde)
James Connell (in memory of Lucky)
Peggy Connors (in memory of Coco)
Matthew Conway (in memory of Skyler)
Kathy Cook (in memory of Morgan)
Sciott A. Conord (in memory of Shadow)
Patricia Cooper
(in memory of Coco and Aggie)
Joseph Corio
Edith Cornelius
Margaret Corneus
(in memory of Molly)
Dr. and Mrs. Neil Cornelius
Lesley Cowdeshoven
(in memory of Gatsby)
Lisa Cowen (in memory of Abbey)
Steven M. Craig
Mr. and Mrs. Robert Crain
Catherine Cranor (in memory of Alpina)
Mr. and Mrs. James Cricchi
(in memory of Chloe and Pumpkins)
Candice Crossant
(in memory of Danny)
Douglas Crossman
(in memory of Rommel, Harley,
and Domino)
Mr. and Mrs. Frank Crommelin
Mr. and Mrs. Neil Cronin
(in memory of Buddy)
Mr. and Mrs. Thomas Crooks
(in memory of Maggie)
Kathleen Croussan (in memory of Lexie)
Kenneth Croussan (in memory of Theo)
Margot Cullen
(in memory of Bo)
Barbara Curtis
(in memory of Brandi and Molly)
Mr. and Mrs. Roger Cusano
(in memory of Tommy and Nikki)
Olga Cutoff (in memory of Chi)
Odette Czaapki
Cindy Czarkalski (in memory of my
dear husband Ronald and his beloved
dog, Bogart)
Jude Dainton (in memory of Molly)
Anthony Dalesandro
Linda Dalton Walker
(in memory of Dado)
Patricia Daly (in memory of Mulder)
Annie Damiano (in memory of Krypto,
Babba, Brando, and Sasha)
Mary Damico
(in memory of Teddy Bear)
Mr. and Mrs. Thomas D'Andrea
(in memory of Tasha)
Mr. and Mrs. Nestor D'Angelo
Darlene Daniels
(in memory of Mr. Jefferson)
Sharon Dattilo (in memory of Babba)
Lori Davico (in memory of Vixen)
Robert and Sandra Davis
(in memory of Kathy LeDuc Brand)
Joseph Davis (in memory of
Humberto)
Mr. and Mrs. Alphonse DeCouture
(in memory of Miss Molly)
Kendra Gemnett (in memory of Sunshine)
Mr. and Mrs. Marshall Genger
(in memory of Rudy, Fluffy, and Daisy)
Charles Gemmarelli (in memory of Moses)
Joyce and Bob Gentile
(in memory of Spike)
Mr. and Mrs. Walter Gerechta
(in memory of Angus and Nigel; in honor of Kenneth Adam Estes)
Janas John Gertler and Eva Ana Vas
(in memory of Moses)
Michele Giardini
(in memory of Julius, Rocky, and Roxanne)
Lowrie Gibb
Christine Gibbons
(in memory of Fozzie)
Thomas Gibbons and Linda Siple
(in memory of Wheatie)
Carol Gilling
Mr. and Mrs. Martin Gilmartin
(in memory of Sioster and Bridge)
Lorraine Giordano
(in memory of Charlotte Louise)
Mr. and Mrs. H. Peter Giordano
(in memory of DuBloss L. Jenkins)
Giordano Family
(in memory of Emmitt)
Brenda Giovannello
(in memory of Buck and Tippy)
Mr. and Mrs. Joseph Giovannoli
(in memory of Lily)
Steven Gippeth
(in memory of Budie)
Mary Gleason
(in memory of Nikko)
Dianne Godar
(in memory of Sunset)
Stacey and Andrew Goddard
(in memory of Molly)
Richard Goldberg
(in memory of Muggsy)
David Goldberg
(in memory of Mary Jane)
Janis Goldberg Warren
(in memory of Booker)
Rita Golden
(in memory of Salsa and Blackie Johnson Golden)
Sheldon Goldfarb
Elisabeth Goldenman
(in memory of Darrow, Bailey, and Brody)
Mr. and Mrs. Harold Goldman
(in honor of Suzie-Q)
Alan Goldstein
(in memory of Ginger)
Mr. and Mrs. Eugene Goldweaser
(in memory of Finnegon and Holden)
Luis Gonzalez
(in memory of Happy)
Mr. and Mrs. Robert Goran
(in memory of Tommy)
Robertia Gordon
(in memory of Dr. Bernard W. Rosen)
Alice and Gary Gordon
(in memory of Lucky)
Latoye Gosh
(in memory of Pepper)
Mr. and Mrs. Dennis Gottilla
(in memory of Oliver)
Dr. and Mrs. Paul Gould
(in memory of Honey)
Lihan Goutley
(in memory of Josh)
Scott Grabber
(in memory of Amber)
Mr. and Mrs. Walter Grassow
Mr. and Mrs. Robert Graves
(in memory of Cody)
John Gray
(in memory of Jacob)
Sue Green
(in memory of Nora)
Ellen H. Greenberg
Greene County Farm Bureau, Inc.
(in memory of DuBloss L. Jenkins)
Martha Greenlee
(in memory of Thor and Butch)
Elaine Greenstone
(in memory of Otis and Milo)
Susan Gregory
(in memory of Beavis, Masteloco, Enya, and Maggie)
Eleni Grekos-Retsinas
(in memory of Roki)
Ann Grinn
(in memory of Frankie)
Mary Lou Griffith
(in memory of Tessie)
Mr. and Mrs. Philip Grippen
(in memory of Fozzie and Max)
Mr. and Mrs. William Groh
(in memory of Muffin)
Jay Groff
(in memory of JF)
Traicia Groschan
(in memory of Lexie)
Robert Groskin
(in memory of Jasper)
Leslie Gross
(in memory of Casey)
Kathy Gross-Zalta
(in memory of Sedona)
Dr. and Mrs. Martin Gruber
Jenniffer Gravenheid
(in memory of Morgan, Mint, Devon, and Ali)
Dr. and Mrs. Gordon Grundy
Barbara and Jerry Grunt
(in memory of Rizzo)
Anthony Guarino
(in memory of Rex)
Mr. and Mrs. Richard Guida
(in memory of Kuma)
Kathy Guassi
(in memory of Cameron)
Mr. and Mrs. Eric Guether
(in memory of dogs)
Mr. and Mrs. Bob Guirka
(in memory of Sarah Daigle)
Janet and Jerry Guterman
(in memory of Willoughby)
Doris Haas
(in memory of Wizard)
Noreen Hallbach
(in memory of Zeus)
Robert and Randy Hall
(in memory of Chelsea)
James Halpin
(in memory of Molly)
Mr. and Mrs. Jan Halter
(in memory of Bailey)
Marion Hamblett
(in memory of John Piuntedosi, in memory of Snuggles)
Ann Hanses
(in memory of Jesse, Annie, and Tristan)
Charlotte Hardman
(in memory of Rocky)
Earl Hannibal
(in memory of Tom Guzinski)
Bob and Barbara Hansen
(in memory of Misty)
Latoye Cardiasty-Capitano
(in memory of Luke)
Mr. and Mrs. Robert Hardy
(in memory of Hawkeye)
Sharon Harker
(in memory of Martha)
Mary Harmon
(in memory of Mikey)
Tash Harma and Christina Sines
(in memory of Izzie)
Claire Harouni
(in memory of Molly and Lucy)
Mr. and Mrs. Gerald Harper
(in memory of Max)
Alyce Harper
(in memory of McBear)
Mr. and Mrs. Burton Harris
(in memory of Jiffy)
Lynd Harris
(in memory of Sandy)
Harry Harrison
Debra Harrison-Atlas
(in memory of Savannah and Arcadia)
Bette Harrold
(in memory of Nugget)
Jill Harst
Reinald Hartmann
(in memory of Dr. DuBloss L. Jenkins)
Mr. and Mrs. Thomas Hartshorne
(in memory of Maggie Rose)
Joshua Harvey
(in memory of Harvey)
Toni Sue Harvey
(in memory of Angus)
Doris Hattan
(in memory of Bandit)
Susan Hauzer
Donna Hayden
(in memory of Pebbles and Tate)
David and Sara Hayden
(in memory of Bobby)
Laura Jane Haynes
(in memory of Lucy, Scout, and Oliver)
Sally Head and Eileen Reedy
(in memory of Abby, Brindle, Molly, and Brady)
Mr. and Mrs. David Head
(in memory of Zeke and Jake)
Joanne Healey and Catherine Vitale
(in memory of Hudson, Sabrina, and Danny)
Diane Heckt
(in memory of Sasha)
Madeleine Heidelheimer
(in memory of Shota)
Chris and Barbara Heiser
(in memory of Scooby)
Ellen and Richard Hessler
(in memory of Charlie)
Mr. and Mrs. Ross Holmes
(in memory of Wiley)
Susan Holmes
(in memory of Miles)
Linda Holmes
(in memory of Tasha)
Sandra Hodges
(in memory of Molly)
Mr. and Mrs. Robert Hommel
(in memory of Rocky)
David Helland
Matthew Heller and All About PetCare
(in memory of Mallory)
Emily Helwig
(in memory of Shanna and Sam)
Scott Hemenway
Mr. and Mrs. Michael Henderson
(in memory of Taylor)
James Henderson
Dr. and Mrs. Michael Heres
(in memory of Jack)
Roxanne Henemuth
(in memory of Lila)
Elizabeth Herry
(in memory of Speck and Sylvester Sinclair)
Mr. and Mrs. James Herbert
(in memory of Hershey and Dooper)
Mr. and Mrs. Malcolm Hermele
(in memory of Kabby)
Susan and Malcolm Hermel
(in memory of Petey)
Jennifer Hesser
(in memory of Max)
Francine Hicks and Chris Manfredo
(in memory of Birdbrain)
Janet Higgins
(in memory of Mac and Cookie)
Mr. and Mrs. Michael Higgins
(in memory of Maurice)
Jan Hjergman
(in memory of Mica)
Howard and Joan Hill
(in memory of Dr. DuBloss L. Jenkins)
Dolores Hill
(in memory of Max)
Helen Hirschluffle
Brad Hirschhorn
(in memory of Ralph)
James Hodges
(in memory of Honor)
Mr. and Mrs. Jeffrey Hogan
(in memory of Cash)
Robert Hogan
(in memory of Maggie and Tabby)
John Hogan
(in memory of Gigi)
Dr. and Mrs. Herbert R. Holden
(in memory of DuBloss L. Jenkins)
Penelope Holloway
(in memory of Charlie)
Mr. and Mrs. Ross Holmes
(in memory of Riley)
Susan Holmes
(in memory of Miles)
Linda Holmes
(in memory of Tasha)
Sandra Holzinger
Mr. and Mrs. Robert Hommel
(in memory of Tyler, Max, Lady, and Nicki)
Lynn Horn
(in honor of Lucy and Brintendo)
Mr. and Mrs. Jan Horowitz
(in memory of Harley)
Amy Houre
(in memory of Mugsy)
Donald and girly Howe
(in memory of Daffy)
Robert Hughes
(in memory of Fuzzy Bear)
Robert Hull
(in memory of Butch and Daisy)
Linda Hulse
Mr. and Mrs. Merritt Humphrey
(in memory of Goosepond)
Animal Hospital)
Donna Hunt
(in memory of Dr. Marc Wallach)
Ann Hyden
Ian Passman
(in memory of Holly)
Eva Ira
(in memory of Stoia, Niko, and Brita)
Diane Izzo
(in memory of Kye)
Robertta Jackson
(in honor of Moko, Scrapy, and Minalouche)
Charles and Mildred Jackson
(in memory of Maggie Mae)
P. Jacobs
(in memory of Heathier)
Mr. and Mrs. David Jaffe
(in memory of Phineas)
Mr. and Mrs. James Jaffe
(in memory of Gus)
Donna Janelle
(in memory of Buddy)
Lois Janson
Richard Janson
(in memory of Spanky)
Robert Jantosciak
(in memory of Tippy)
Gary and Gail Jay
(in memory of Bacci)
Mr. and Mrs. Donald JAY
(in memory of Lacey)
Francis Johnson
(in memory of Lacey)
Mr. and Mrs. Robert Johnson
(in memory of Jester and Sally)
Kelley Johnson
(in memory of Bentley)
Beverly Johnson
(in memory of Chelsey and Abbey)
Marsha Johnson
(in memory of Sam Brown)
Yvonne Johnson
(in memory of Anna Segotta)
Edna Johnson
(in memory of Dillon)
Moira Jones
(in memory of Toby)
Randall Kauf
Mr. and Mrs. John Kadleck
(in memory of Buddy)
Maria Kafka
(in memory of Erica)
Robertta Kahn
(in memory of Robbie and Lexy)
Victoria Kennedy (in memory of Cubby)

Mr. and Mrs. Steven Kenneson (in memory of Bunny)
Mr. and Mrs. Jan Krepsheild (in memory of Franine)
Mr. and Mrs. James Knight (in memory of Jackson and Little One)
Charles and Sandi Koester, Jr. (in memory of William Wallace)

Susan and Fred Kolar (in memory of Charlie)
Jean Koler (in memory of Travis and Ms. Blits)

Connie Konefal (in memory of Willie)
Mr. and Mrs. Pavel Korochkain (in memory of Right)

Carol Knochak (in memory of Bowser)
Audrey Kotas
Susan Kowach

Kris Krablin and Ellen Krag (in memory of Dr. Dubois L. Jenkins)
Malcolm Kram and Mark Zwanger (in memory of Reilly)

Carolyn Kramer (in memory of Buffy, Jack, and Tia)
Mrs. and Mr. Herman Kramer (in memory of Rocky)
Georgette Krauss (in memory of Samantha)
Yolanda Krehyon (in memory of Dr. Dubois L. Jenkins)
Joan Krey (in memory of Eddie)
Ellen Kriger (in memory of Ben)

Nancy Kroistadt (in memory of Simon)
Mark Krudelle (in memory of Sasha; in honor of Dr. Rebecca Seaward)
Maryanne Kruzewicz (in memory of Polo)
Fred and Faye Kuehn (in memory of Artie)
Mr. and Mrs. Mark Kugelman
Gary Kull and Avalon Building Systems (in honor of Carl M. Dunham, Jr.)
Janet Kushner (in memory of Goldie)

Mr. and Mrs. William Kunda (in memory of Casey and Rosie)
Myrna Kutchel (in memory of Maggie)

Andy and Paul Kazma (in memory of Ranger and Heidi)
Constance La Forgia (in memory of Sasha)

Judith Labadik (in memory of Chi)
Mr. and Mrs. Joseph Lacerda
Lorraine Laken (in memory of Maggie)
Mr. and Mrs. Peter Lambert (in memory of Racy)

Barbara Lombros (in memory of Amber)
Donna Landry (in memory of Brandy)
Mr. and Mrs. Richard Landry (in memory of Dakota)

Betsy Landman (in memory of Dr. Bernard Bass)
(Carl) Learson (in memory of Remi and Iazy)
Alan Lasting (in memory of Sherman)

Mr. and Mrs. Charles Laneys (in memory of Baxter and Marshmellow)
Kathryn Lang (in memory of Benji, Tilly, and Ginger)
Carol Lastig and Adorandes Goddess (in memory of Jessie, Mackie, Connor, and Aspen)

Barbara Larson Wille (in memory of Rocky)
Eric Laubman

Michael Law (in memory of Gabrielle)
Lois Lawrence (in memory of Duke, Daisy, and Cutter)
Mr. and Mrs. Eric Lazo-Wasem (in memory of Racy)

Diane Lehengr (in memory of Duncan)
Mr. and Mrs. Ray Lee (in memory of Ruby, Raven, and Dylan)
Peppi Ledis (in memory of Hunter and Duncan)
Kathy Lembo (in memory of Corey)

Barb and Bill Lennox (in memory of Josch)
Mr. and Mrs. Robert Leonardi (in memory of Ashlee)
Maria Leonie

(Linda) Leopard (in memory of Claire, Ambrose, and Mary and in memory of Rosalie)
Mr. and Mrs. Edmund Leone (in memory of Cassie)

Robert Lerner (in memory of Otis; in honor of Dr. Annie Vanes)
Carolyn Lesseos
Rolin LeStrange (in memory of Gizzo)
Mr. and Mrs. Robert Leteurette

Jerome Levin (in memory of Chy)
Donald Levin
Mr. and Mrs. Gary Levine (in memory of Bailey, Bullet, and Lucky)

Sandra Levine (in memory of Thor and Maximus)
Mr. and Mrs. Bill Levine (in memory of Maddie)

Mr. and Mrs. Mitchell Levine (in memory of Gizzie, Elliott, Samray, and Beau)
Jeffrey Levine

Joy Levy (in honor of Komondor)
Mr. and Mrs. John Levy (in memory of Woody)
Rita Lewis (in memory of Toby)

Mr. and Mrs. David Lewis (in memory of Whiskers)
Mr. and Mrs. Bradford Lewis (in memory of Ginger)

Kathleen and Paul Lewis (in memory of Marley)
Frank and Patricia Lewis (in memory of Joanne M. Connor)
Gail Lieberson (in memory of Otis)

Renee Ligay (in memory of Nutmeg and Nikita)
Mary Logan (in memory of Tucker)
Jacqueline Linehan

Donna Lisi (in memory of Abe)
Barbara C. Lipp (in memory of Miss Pigg)

Norm Lapit (in memory of Angel)
Judith Lipton (in memory of Xerox)
Valerie Litt (in memory of Henry)
Craig and Suzanne Litzin (in memory of Jennifer)
Marsha Lloyd (in memory of Willy)
Louis Lombardi (in memory of Lukie)
James Lombardi (in memory of Sharpee and Jake)

Stefanie Lorch (in memory of Mattie)
Lone Pine Kernel (in memory of Arky)

Deborah Lord (in memory of Anna)
Tamara Lucas (in memory of Max)
Mary Ann Lazin (in memory of April)

Benjamin and Diane Luch (in memory of Bludie)
Debra Lune (in memory of Mandi)

Virginia Lussier (in memory of Mittens)
George Lust (in memory of Shadow)
Adrienne Lustig

Walter Luther (in memory of Buddy)
Jody Luther (in memory of Herren)
Sang Ben Luy

Dr. and Mrs. Stuart Lynam (in memory of Dr. Dubois L. Jenkins)
Mr. and Mrs. Roger Lynch (in memory of Maggie)
Kevin Lynch (in memory of Buffalo, Molly, and P.J.)
Dr. and Mrs. Robert Lynam (in memory of Dr. Dubois L. Jenkins)

Kristine Lysott (in memory of Ginger Martile)
Richard Lynes (in memory of Stickers)
Mr. and Mrs. Bernard Lyons (in memory of Bentley)

Dr. and Mrs. Steven Lysenko (in memory of Dr. Dubois L. Jenkins)
Mr. and Mrs. Archie MacMillan (in memory of Maxie Lang)
Vicky MacCollum (in memory of Otis)

Linda Mack (in memory of Anna Kelley; in memory of Tia)
Mr. and Mrs. Stephen MacLean (in memory of Chiroy)

Mr. and Mrs. Eric Macura (in memory of Troy Biekirk; in memory of Belle)

Susan Mahur (in memory of Travis)
Mr. and Mrs. Francis Mahar, Jr. (in memory of Vicky)
Megan and Thomas Maher (in memory of Emmanuel)

Ryan Mahoney (in memory of Mickey)
Mr. and Mrs. Henry Majewski (in memory of Pride and Colette)

Mr. and Mrs. Raymond Malbrough (in memory of Alpha)
Joan Mallonee (in memory of Nick)

Pat and Trish Maloney (in memory of Mickey)

Frances Mandel (in memory of Jennie)
Valerie Manfredonia (in memory of Gizzo)

Mr. and Mrs. Mark Manfredo (in memory of Dakota, Taz, and Shadow)

Mr. and Mrs. Michael Marchese
in memory of Chelsea and Teddy)  
Mary Shermet (in memory of Busco;  
and Sadie)  
Lisa Sheridan (in memory of Ross  
(in memory of Oscar)  
Mr. and Mrs. Jonathan Shell  
Heidi Shegoski (in memory of Sinclair)  
Mr. and Mrs. Doreen Shea  
Mr. and Mrs. John Shaw (in memory of  
(in memory of Snuggles)  
Mr. and Mrs. John Sharkey  
Dr. and Mrs. Michael Shapiro  
Carol Shapiro (in memory of Tevee)  
Mr. and Mrs. Thomas Shanahan  
Nikki, and Coffee)  
Marian Sension (in memory of  
and Tucker)  
Cheryl Senese (in memory of Molly  
(in memory of Toby)  
Carol Shapiro (in memory of Tevee)  
Dr. and Mrs. Michael Shapiro  
Mr. and Mrs. John Shaw  
Mr. and Mrs. Martin Seifanek  
Barbara Seiden (in memory of Griff)  
Mr. and Mrs. Martin Sefranek  
Margaret Seipel (in memory of  
Barkley)  
Mr. and Mrs. Doreen Shea  
Mr. and Mrs. John Shaw  
Dr. Peter V. Poggi)  
Marilyn Schwartz (in memory of  
(in memory of Molly)  
Mr. and Mrs. Jeffrey Schwartz  
Joyce Schubert  
Bonnie Schubel  
Karen Beth Schreiber  
Bonne Schueler  
Joyce Schubert  
Judith Schultz (in memory of Tom  
and Gen)  
Dr. and Mrs. Richard Schwalb  
(in memory of Run-Bun Bunry;  
in honor of Alli Hemmer)  
Mr. and Mrs. Jeffrey Schwartz  
(in memory of Bally and Buddy)  
Terrie and Brian Tarbox  
(in memory of Hannah Mae and Jordan)  
Mr. and Mrs. Thomas Terr (in memory of Sadie)  
Margaret Terr (in memory of Buffy;  
in honor of Spike and Sasha)  
Amanda Tate (in memory of Romeo)  
Maria Tatum (in memory of Sophie)  
Mr. and Mrs. Silvio Tavernise  
(in memory of Annie)  
Diane Taylor  
Ruth Taylor (in memory of Cubby and  
Clarence)  
Mr. and Mrs. David Taylor  
Mr. and Mrs. Thomas Taylor  
Marjorie Teasal  
Margaret Teasal (in memory of Duff y;  
in memory of Molly)  
Jill and Bob Ten Eyck  
(in memory of Reginald D. Williamson;  
in memory of David Hall; in memory of  
Kron)  
Eleanor Terziann (in memory of Max)  
The Ali Bridge Group  
(in memory of Dr. DuBois L. Jenkins)  
The Keruwan Family  
(in memory of Orve and Kitty)  
Laure Thorsen (in memory of Annie)  
Sylvia Thomas  
Pamela Thomas  
Mr. and Mrs. Thomas Taylor  
Marjorie Teasal  
Mr. and Mrs. Joel Solomon (in memory  
of Leia, Prince, and Spoggie)  
Fril Sonderegard (in memory of Molly)  
Carol and Ricky Sottomine (in memory  
of Moll)  
Judie Swovak  
(in memory of Scout and Carmine)  
Robert Sowers  
(in memory of Rosie and Buffy)  
Leslie Spikle  
(in memory of Bernie and Boomer)  
Marcia Spencer (in memory of Walter)  
Mr. and Mrs. Paul Spera  
(in memory of Pault Pinut)  
Richard Slaughter (in memory of Spots)  
Mary Elizabeth Stevin (in memory of  
Ginger)  
Patricia Sloter  
Mr. and Mrs. James Smith  
(in memory of Daisy and Pepper)  
Marjorie Smith (in memory of Annie)  
Lancy Smith (in memory of Lynette Smith)  
Mr. and Mrs. Richard Smith  
(in memory of Noah)  
Mr. and Mrs. Donald Smith (in memory  
of Max)  
Ann and Richard Smith  
(in memory of Reggie)  
Anne Smith  
Gertrude Smith (in memory of  
Mary H. Harvey)  
Linda Smith (in memory of Jesse)  
Karen F. Smith (in memory of Lilly)  
Nancy and Richard Smoker  
Dr. and Mrs. Francis Stellaccio (in memory  
of Sabrina)  
Joan Stepanian  
Julie Stephens  
Mr. and Mrs. Jeffrey Stern  
(in memory of Huklon, Adrienne,  
and Buddy)  
Margaret Stiff (in memory of Ruffles)  
L.J. and Doreen Stiglianese  
(in memory of Cookie)  
Lyman Stimson (in memory of Border  
Collies and Huskies)  
David Stone (in memory of Sandy)  
Suzanne Stone (in memory of Corky)  
Daphne Storey (in memory of Sophie)  
June Scott (in memory of Denali)  
Julian Strauss  
Aaron and Maryanne Strindeberg (in  
memory of Iris)  
Hugh Stropile (in memory of Indy)  
Helen Stuber (in memory of Angel)  
Barbara and Cliff Struts (in  
memory of Ziggy)  
Arletta Suboch (in memory of Rex)  
Mr. and Mrs. Barry Sullivan (in memory  
of Tobe)  
Gail Sullivan (in memory of Kona)  
Nancy Sullivan (in memory of E. Irene Viegelmann)  
Fern Sanday (in memory of Skipper)  
Melinda Sannaurborg  
Deborah Sutherland (in memory of  
Suki and Winnie)  
Mr. and Mrs. Eric Swanson (in memory  
of Schatzie)  
Donald Swart  
Elizabeth Swanson  
Christine Swift (in memory of Quincy)  
Susan Szymborski (in honor of Bailey)  
Mr. and Mrs. Alphorse Szeghely  
(in memory of Sadie)  
Gail Tadevos (in memory of Charleigh)  
Mr. and Mrs. R. W. Tait  
Michael Talarski  
S.J. Taney (in honor of Toby)  
Holly Tanguay (in memory of Gus)  
Sally Tanner (in memory of Abby and  
Buddy)  
Ann Tantin (in memory of Sara)  
Mr. and Mrs. Kenneth Titus  
Vicki and Arnold Topfer (in memory of  
Ranger)  
Patricia Tolchin (in memory of Jill  
and Ned)  
Anne Toombis (in memory of Ryley)  
Nellie Torres (in memory of Honey)  
Jessie Toscano (in memory of Jasmine;  
in honor of Dr. Richard Caputo)  
Doris and Jim Trapasso  
(in memory of Maggie Mae)  
Mr. and Mrs. William Trask (in  
memory of Winkie and Nikita)  
Alexander Travis (in memory of Shadow)  
Duc Trinh (in memory of Bucky)  
Mr. and Mrs. Bill Truncali  
Iris Tuck (in honor of Cecilia and Murray)  
James Tucker (in memory of Derek)  
Virginia Tully (in memory of Ruths,  
Duver, and Naomi)  
Mr. and Mrs. Richard Tuozzo  
(in memory of Tammy Foy)  
Mr. and Mrs. Doreen Shea  
Mr. and Mrs. John Tieu  
Rosa Tunia (in memory of Caddies and  
Snuggles)  
Anne Udel (in memory of Cassie, Lotus  
Bloom, Miss Mia, and Molly)  
United Materials, LLC  
(in memory of Jenna)  
Mr. and Mrs. Paul Valentine  
Kathy Valletutti (in memory of Casey)  
Brinda Van (in memory of Charro)  
Jonathan and Ann Van Eyk (in memory  
of Dusty)  
Matti Van Gunn (in memory of Lily Ann)  
Susan and Carl van Kesteren (in memory  
of King)  
Tara Van Keuren (in memory of Coffee)  

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Eva Walsh and Joan Palmer (in memory of Toby)
Mr. and Mrs. Mark Walsh (in memory of Blue)
Don and Marsha Welshans (in memory of Chewy)
Karen Walter (in memory of Bubby)
Hilda Walters (in memory of Zeke)
Judy Walters (in memory of Frazier)
Michael and Mary Ward (in memory of Sammy)
Jackie Ware (in memory of Bailey)
Betsey Warne (in memory of Elmo)
Karen Warner (in memory of Lucky, Cody, and Trout Lake)
Janice Washburn (in memory of Philly and Fallon)
Laureta Washy (in memory of Keisha)
Charlene Watkins (in memory of Ruby and Opie)
Mr. and Mrs. John Weaver (in memory of Bocci)
Norman Webber (in memory of Deacon)
Lynda Weber (in memory of Sandy)
Kathleen Webster (in memory of Brewster and Otis)
Amy Weed (in memory of Mugsey and Mitzay Gaynor)
Robert and Geraldine Weeks (in memory of Charlie and Cassie)
Mr. and Mrs. Lew Weingard
Doris Weiss (in memory of Pena Nut)
Harriet Welburn (in memory of Dino)
Mr. and Mrs. Robert Wells (in memory of Penny and Sissy)
Mr. and Mrs. James Welsch
Frances Werthman
Alice Westlake (in memory of Laddie)
Weston Plains Acres (in memory of Murdock, Rosie, Fern, and Zak; in honor of Jim and Terry Gray)
Mr. and Mrs. Ron White (in memory of Forest and Max)
Steven and Ann White (in memory of Bailey, Truffles, and Daisy)
Tiffany White (in memory of Missy)
Janet Whitman (in memory of Code Red, Tyler, Meena, Lovey, and Bailey)
Mr. and Mrs. David Whitmyre
Sheila Whitney (in memory of Cassie)
Mr. and Mrs. Bruce Whittaker (in memory of Dr. DuBois L. Jenkins)
Catherine L. Wilhelmsen
Lynda Wilke (in memory of Phoenix and Miss Kitty)
Mr. and Mrs. Robert Winks (in memory of Dally)
Susan Williams (in memory of Lilly)
Deborah Williams (in memory of Sammy)
Jess and Mary Williams (in memory of Tequila and Buster)
Marie Williams (in memory of Zoe)
Mr. and Mrs. Paul Williams (in memory of Truffles)
Williamsburg Jewelers (in memory of Mrs. Anne Neressian)
Jane Williamson
Pauline Willman (in memory of Sandy and Wofat)
Donald and Joyce Wilson (in memory of Georgia)
Suzanne Wilsie (in memory of Barney)
Mr. and Mrs. Thomas Winnieck (in memory of Cooper)
Mr. and Mrs. Dean Winkler
Susan Winnick (in memory of Snoopy)
Joan Winoker (in memory of Cotton and Poochie)
Bart and Sharon Winlow (in memory of Ern; in honor of Eastview Veterinary Clinic)
Sara Withered (in memory of Fred and Duncan)
Martha and Michael Wikowski (in memory of Jena and CH. Grafius KNK Marshall)
Jill Wolfe (in memory of Kokomo and Pebbles)
Carol Wolitzky (in memory of Amigo)
Mr. and Mrs. R. Norman Wood (in memory of Tami and John)
R. Paul Wood (in memory of Nellie)
Bonita Woodring (in memory of Tim and Sera)
Mary Woods (in memory of Bruno)
Mary Woolsey (in memory of Sparky)
Donald Worth (in memory of Pepper)
Sharon Worth (in memory of Truman)
Mr. and Mrs. Douglas Woundy (in memory of Guss)
Stephen Wyler (in memory of Gianni, Rusty, Pebbles, and Max)
Warifred Wykle (in memory of Anne)
Carrie and Dan Yaksh (in honor of Dr. James Glendening)
Jeanne Yonamoco (in memory of Roxy, Mo, and Otis)
Laura Yebra (in memory of Sam)
Mr. and Mrs. Robert Yonkers (in memory of Dusty)
Judy Yorio (in memory of Apollo)

Financial Summary 2009

2009 Revenue

<table>
<thead>
<tr>
<th>Source</th>
<th>2009 Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>competitive research grants</td>
<td>$500,000</td>
</tr>
<tr>
<td>private donations</td>
<td>$300,000</td>
</tr>
<tr>
<td>competitive research grants</td>
<td>$200,000</td>
</tr>
<tr>
<td>college support</td>
<td>$100,000</td>
</tr>
<tr>
<td>endowment income</td>
<td>$50,000</td>
</tr>
<tr>
<td>total revenue</td>
<td>$1,150,000</td>
</tr>
</tbody>
</table>

Revenue Summary

- Fully 40% of our income comes from competitive research grants.
- The percent of endowment income was similar to recent years.
- 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.

2009 Expenses

<table>
<thead>
<tr>
<th>Source</th>
<th>2009 Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>administration</td>
<td>$250,000</td>
</tr>
<tr>
<td>research</td>
<td>$200,000</td>
</tr>
<tr>
<td>infrastructure</td>
<td>$150,000</td>
</tr>
<tr>
<td>total expenses</td>
<td>$600,000</td>
</tr>
</tbody>
</table>

Expense Summary

- More than 80% of our budget continues to be directed toward our research programs, which allows us to maintain a leadership position in both basic and applied research for companion animals.
- Infrastructure costs were down slightly from 2008, and we spent less than 20% of our budget on support costs such as building maintenance, utilities, administrative and public affairs staff and programs.
Dear Friends,

We are delighted to celebrate 60 years of research accomplishment by the faculty, students, and staff of the Baker Institute for Animal Health. A key contributor to this success has been Dr. George Lust, a groundbreaking researcher who advanced our understanding of hip dysplasia. It was with great admiration that we celebrated George's career at the time of his retirement in 2010.

The legacy of the Institute has a richness that is not always obvious to the observer. There are the outstanding research findings, of course, and this year we saw a collaborative report on the genetic basis of Lavender Foal Syndrome that quickly progressed to the development of a practical test to detect the defect. In addition, Institute researchers described novel functions for eosinophils that upended the dogma regarding their role in worm infections. New understanding emerged regarding the host range and infectivity of canine parvovirus and feline calicivirus. These are examples of the normal, always exciting, nature of progress that we have come to expect from the Institute.

The expanded legacy of the Institute comes with the guarantee that the discoveries will continue in the future. In addition to the continued efforts of current and future investigators at the Institute, many exciting discoveries will come at the hands of the next generation of Baker-trained investigators. We anticipate great things from the next generation of Baker-trained scientists.

The scientific impact and reach of the Baker Institute has never been more evident. It is equally clear that the support provided by all of us, the friends of the Baker Institute, remains crucial to the success of the Institute's vital research and education efforts.

We are thankful for your generosity and loyalty and look forward to the next 60 years of success for the Baker Institute.

Richard Henry, Chair

David Behnke, Vice Chair
Faculty, Staff And Student Directory, January 2009 – June 2010

Administration

Douglas F. Antczak
Director (-6/30/09)
BA, Cornell University; VMD, University of Pennsylvania, PhD, Cambridge University, UK
Judith A. Appleton
Director (7/1/09 –)
BS, Indiana University; MS, PhD, University of Georgia
Joseph E. Bennett
Faculties Manager
AAAS 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 & Immunology

Albert C. Bostwick Laboratory of Molecular Biology, Canine and Feline Paroviruses

Colin R. Parrish
Ph.D., Cornell University

Laboratory of Immunology of Infectious Diseases

Susan Mendez
Assistant Professor of Immunology and Infectious Diseases
DVM, PhD, University of Tennessee
Wenbi Wu (-10/09)
Postdoctoral Associate

PhD Candidate:
BS, Brown University; MS, St. Joseph's College, Bangalore, India
Research Support Specialist:
BS, University of South Dakota; DVM, Cornell University

Laboratory of Virology: Feline Caliciviruses and Mammalian Orthonoviruses

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BVMMS, University of Glasgow (Scotland)
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Lauren K. Blum
Research Associate:
Lynne S. Williams

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Laboratory of Immunoparasitology

Susan K. Bliss
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BS, Lawrence University; DVM, PhD, Cornell University
Diana Douglas
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BS, Truman State University
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Leadership Program and Training Initiatives

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Laboratory of Muscular Immunity, Neurodeases and Immunopathology

Judith A. Appleton
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Elizabeth Corey
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Laboratory of Epigenetics and Reproductive Biology

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Laboratory of Reproductive Biology

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

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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. Shefky
Caspar Professor of Nutrition, Emeritus:
BS, MS, PhD, University of Wisconsin

Technical Support:
Timothy W. Angunah (6/09)
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. Drains
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Shannon D. Kellogg
Animal Technician: AAS, SUNY Agricultural and Technical College at Delhi; BS, Cornell University; AALAS accreditation
Julie D. Reynolds
Animal Technician: AAS, SUNY Agricultural and Technical College at Delhi; BS, Cornell University; AALAS accreditation
Emily J. Silvela
Animal Technician: AAS, SUNY Agricultural and Technical College at Delhi; BS, Cornell University; AALAS accreditation

Stuart Davernport
2009 Leadership Program, Travis Laboratory
Kate Huggler
2009 Havemeyer Summer Fellow, Antczak Laboratory
Shuhai Io
2009 Leadership Program, Coornd Laboratory
Magdalena Schmidt
2009 Leadership Program, Coornd Laboratory
Meredith Sherrill
2009 Leadership Program, Acland Laboratory
Julanda Verheof
2009 Leadership Program, Mendez Laboratory
Hans Winkler
2009 Leadership Program, Parrish Laboratory

Summer 2010:
Emily Ames
2010 Leadership Program, Coornd Laboratory
Heike Bruer
2010 Leadership Program, Coornd Laboratory
Erin Ti-ja Chu
2010 VIP Program, Coornd Laboratory
Lindsay Goodale
2010 Havemeyer Summer Fellow, Antczak Laboratory
Samantha Slodkin
2010 Leadership Program, Parker Laboratory
Kate Huggler
2010 VIP Program, Antczak Laboratory
Marie Killery
2010 Leadership Program, Parrish Laboratory
Shana Mintz, Meyers-Wallen Laboratory
Byung Joo (Justin) Na由此
Mendez Laboratory
Anne Kimmerlein
2010 Leadership Program, Mendez Laboratory
Andrea Lopez-Cepero
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Tamara Maehr
2010 VIP Program, Appleton Laboratory
Ravee Padte
2010 Leadership Program, Acland Laboratory
Gertje Petersen
2010 Leadership Program, Travis Laboratory
Maria Warren
2010 VIP Program, Mendez Laboratory
Kerrie Winstanley
2010 Havemeyer Summer Fellow, Antczak Laboratory
Sirima Yasemuri
2010 Leadership Program, Travis Laboratory

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Kate Backel, Travis Laboratory
Emily Bick, Appleton Laboratory
David Byun, Mendez Laboratory
Jennifer Cassano, Antczak Laboratory
Shirley Cheng, Appleton Laboratory
Jasmine Chang, Mendez Laboratory
Lucas Dawson, Appleton Laboratory
Marine deMarccken, Antczak Laboratory
Amanda Fischer, Parker Laboratory
Elise Friedel, Mendez Laboratory
Joseph Graterol, Parker Laboratory
Patricia Green (Honors thesis)
Mendez Laboratory
Matthew Hints, Parrish Laboratory
Mei Jin, Coornd Laboratory
Natalie Johnson, Parrish Laboratory
Natalie Ketuchmar, Parker Laboratory
Na Young Kim
Volunteer, Appleton Laboratory
Tyler Lillie, Parrish Laboratory

Horse Barn Crew
Kate Boyd
Marine deMarken
Jill Greisman
Oliver Harwood
Caitlin Hokanson
Sasha Korn
Tyler Lillie
Meredith Lutz
Paula Patton
Tara Stonex

Visiting Scientists, Researchers, And Students

2009:
Nick Ledesma (2009)
Rotating Graduate Student, Appleton Laboratory
Dr. Laura Manns (2009)
Visiting Scholar, Universita. di Napoli, Federico II, Napoli, Italy,
Mendez Laboratory
Swapna Mohan (2009)
Rotating Graduate Student, Travis Laboratory
Eric Strobel (2009)
Rotating Graduate Student, Parrish Laboratory
Dr. George Theodoropoulos (2009)
Sabbatical visitor, Associate Professor of Veterinary Parasitology,
Agricultural University; Athens, Greece,
Appleton Laboratory
Victor Tse (2009)
Rotating Graduate Student, Parrish Laboratory

Part-Time / Casual Assistants
Caleb Chan
2010 Leadership Program, McGregor Office
Sheelah M. Johnston
Administrative Assistant, Parrish Laboratory
Susan E. Pearce-Kelling
Research Support Specialist, Acland Laboratory
Cynthia Kwong
2009 Leadership Program, McGregor Office
Svetlana V. Temnykh
Research Scientist, Acland Laboratory
Kathleen Williams
Administrative Assistant, McGregor Office
Patricia Wolkmer
Volunteer, Mendez Laboratory
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.