Welcome to summer! I can’t believe how fast the first six months of the year have gone. We have important information in this newsletter, please take time to read it from cover to cover.

The “Gathering at Sunnybank” is just around the corner. I have it on good authority that the Madam has another “out of this world” experience for us. If you’ve been, you know you can’t miss it. If you haven’t been, you need to see and live this experience at least once. I promise you will not be sorry.

It seems so long ago now, but what a wonderful event the 2017 Collie Club of America National Specialty Show, “The Pursuit of Gold”, turned out to be for all who were there. The show chairs Cindy Robinson and Marian Darrow went out of their way to make the Collie Health Foundation welcome. Our booth was at ringside so our volunteers could watch the show this year. It was amazing! I want to thank Marian for allowing CHF boxes of donations, promotional items, and auction items to be shipped to her home ahead of time. Then, without even asking, Cindy and Marian loaded up all our items into a trailer and brought them to the show grounds for us. CHF seems to have good friends all over the country. Thank you again Cindy and Marian!

The silent auction items were well patrolled by people watching their bids on some unique items. I remember seeing people three deep around the tables at the close of the auctions! Bidding was half the fun, but winning was everyone’s ultimate goal. We had so many beautiful promotion items this year we barely had room to display them all. Chandra Flaim has done a spectacular job as committee chair. I hope everyone has seen the new throw for this year, Snowfall, artwork donated to CHF by Cindy Alvarado-Yeary. Please remember to visit the Store on our website before you buy gifts elsewhere. Thanks to all the volunteers who helped set up and man the tables for the National. Susan Hernquist, our Treasurer’s sister, was everywhere helping. I don’t know what Karen is holding over you, but we couldn’t have done it without you!

The dinner and night auction was one of the best I think we have had. Tammy Russel-Rice and Gayle Stepanik did a beautiful job again this year setting up the
night auction tables. They were helped by Kathy Landis, Dr. David Hansen and Steve Johns. Dr. Cindi Bossart VMD started the evening off with a mini seminar on “Stem Cells – The Future of Medicine”. Everyone was so excited by this presentation, they could have kept Dr. Cindi speaking for hours. Thank you, Dr. Cindi! The CHF officers honored Dr. Cindi for being named the 2016 Purina Pro Plan Veterinarian of The Year. She was given this prestigious award at a black-tie dinner in New York City at the 62nd Annual Purina Pro Plan Show Dogs of the Year Awards sponsored by Dogs in Review in conjunction with the Westminster Dog Show. The officers also gave appreciation certificates for a lifetime of dedication to the CHF by Helga Kane and Roz Durham. These certificates were aptly named “Thanks for the Memories”! Dr. David Hansen was presented with the President’s Trophy (see the write-up and picture on page 4).

Our Vanna’s, our spotters, the wonderful co-auctioneers, Bob Kelly and Dr. David Hansen, our cashiers for the evening, Karen Anderson and her sister Susan, and finally the cleanup crew did an amazing job. Thank you, Jo Brady, for the pictures and videos throughout the National. Thank you, Eva Taylor for your help and hauling everything home with you for Sunnybank and 2018 CCA National Specialty. Please read the article in the CCA Bulletin for more information about this great evening.

Dr. Cindi speaking at the 2017 CHF dinner in Sacramento
Photo courtesy of Jo Brady

Our Vanna’s, our spotters, the wonderful co-auctioneers, Bob Kelly and Dr. David Hansen, our cashiers for the evening, Karen Anderson and her sister Susan, and finally the cleanup crew did an amazing job. Thank you, Jo Brady, for the pictures and videos throughout the National. Thank you, Eva Taylor for your help and hauling everything home with you for Sunnybank and 2018 CCA National Specialty. Please read the article in the CCA Bulletin for more information about this great evening.

Dr. David Hansen ran the MDR1 clinic with Steve Johns’ help. I’m proud that we had 49 people take advantage of the clinic. Thank you all for your participation. OptiGen was nice enough to send flyers with special pricing and swabs for PRA and CEA testing. I started with 50 envelopes and came home with 4.

There are always a lot of people to thank and please forgive me if you did something special and I didn’t name you. My rocks as volunteers are always Gerrie Oliver, Mary Hunter and this year my husband, Steve. You three are the best!

I had the honor to announce one of the most important projects that CHF has taken on yet. The Martha E Hoffman CHIC DNA Banking Project, sponsored by the Collie Health Foundation in partnership with the Orthopedic Foundation for Animals and the AKC/Canine Health Foundation. The Board unanimously approved this project. We would not have been able to do this without the support of the Estate of Martha Hoffman and so many others who tirelessly contribute to the Foundation. Please take the time to read what we are doing and, most importantly, please participate. If you have any questions or concerns feel free to reach out to me at president@colliehealth.org or Vice President Pati Merrill at patimer@aol.com.

President’s Message (continued from page 1)
President’s Message (continued from page 2)

The CHF Board has approved two grants so far, this year. The Board voted to give $25,000 to be matched by the American Kennel Club to the AKC/Canine Health Foundation for epilepsy research. We are one of only two Champion Sponsors with AKC/CHF on epilepsy. We are proud to announce another grant of $41,941 awarded to Dr. Leigh Anne Clark at Clemson University for her continuing work on Dermatomyositis. Dr. Clark will work on identifying other genes that may affect the expression of DMS in some Collies but not in others. She has identified already the “A”, “B”, and “C” alleles and the current risk assessment is based on these.

The generous support from our members, donors, and the support of the families of loved ones that are no longer with us, have put the Collie Health Foundation in a unique position. The Foundation is able to help preserve and protect the Collie breed in so many ways. We are able to help all canines with genetic health issues and diseases like cancer. Scientific advances in today’s world are allowing us the opportunity to help in human health by canine researchers working with the National Institute of Health on many of the same health issues that affect our dogs. CHF is making a difference. Thank you for your continued support.

I’ll see you at Sunnybank!

Robette

Photos from the Thursday night auction courtesy of Jo Brady
President’s Trophy 2017

This is the first year I am able to award this prestigious award to a volunteer who goes above and beyond volunteering and has shown a true commitment to the Collie Health Foundation. This award is given by the President to a member they think has made a significant contribution to our organization. A tradition has been set by CHF Presidents in the past that this award is only given once in a lifetime to an individual.

This year I have selected someone who has quietly worked for CHF without asking for any thank you’s or “pats on the back”. This individual has worked for CHF since he and his wife became members around 1993. He has worked with his wife running our promotions area. He has served on our grants committee, and as a Corporator and Board Member. The CHF logo artwork donated by Diana Hiiesalu-Bain, the story of Noah, was based on their dog that had sub aortic stenosis dying after his second birthday. This turned him into a dedicated and passionate volunteer for CHF. He currently serves on the CHF Board and is the Collie Club of America Committee Chairman for Health Policy. He has a degree from Kansas State University, College of Veterinary Medicine. He is a Fellow of the Academy of Veterinary Dentistry since 2001. Please help me celebrate someone who is all about the “Collie”, my good friend, Dr. David Hansen.

Photo courtesy of Jo Brady
OLaD FRIENDS, LASTING MEMORIES

SUNNYBANK DAY - SATURDAY

Sunnybank Walking Tours
9:00a – Judy Leathers & Donna McKoy
9:30a – Marilyn Horowitz & Kathy George

9:00a Canine Good Citizen Test – CGC & CGCA* $15
Joni Primas, Evaluator

9:00a Bright & Beautiful Therapy Dog Test* $30
Cindy Mauro, Evaluator
CGC Dogs must be 6 months old; Therapy Dogs must be 1 year

Entries Limited – Pre-registration Required
*Call Sue Chandler 973-696-2506 or
greyskies110@optonline.net

Old Friends, Lasting Memories...
Judy Leathers, Sunnybank Legends
Marilyn Horowitz, Sunnybank Friends
Kathleen Rais, Robert Friend!
Kathryn George, APT & Friends–The Dogs

1:00p – Rescue Parade
Karyn Hahn, Collie Rescue of Northern NJ
Advance Registration Strongly Recommended – See Form Below

6:30p – Banquet Dinner @ Portobello’s
Downstairs Main Dining Room - 155 Ramapo Valley Road, Oakland
$38 Check Payable to “CHF” to Gerrie by 8/15
$48 at the Door

BREAKFAST & LUNCH AVAILABLE SATURDAY & SUNDAY

COLLIE DAY – SUNDAY

9:00a LAD’s Veterans’ Parade
8-11 Years and 11 Years and Older

Your Photo Taken With APT!
Saturday & Sunday

Virtues Match
*PROFILE * SKULL*MUZZLE*EXPRESSION*
*OUTLINE * FRONT * REAR * SIDE GAIT *
Moderated by Royal Rock’s Leslie Canavan
Judges: Mary Benedict, Long Acre
& Amy Gau, Rosepoint

11th Annual Juniors Match
Open, Novice & Best in Match
Judge Krista Hansen, Camloch

Lad of Sunnybank Memorial Match
SANDY DRAPER MEMORIAL TROPHY - Best in Match
& Hand Sculpted Veteran’s Trophy
Judges: Dogs, David Hansen, Camloch
Bitches, Krista Hansen, Camloch

Sunnybank Day – FREE
Virtues Match: $5/Virtue or $12 for 3
Veterans, Rescue Parade & Lad Match: $5

FMI: colliehealth.org or Gerrie Oliver, 60 Columbus Avenue, Closter, NJ 07624 201-768-1282 - olivergerrie@gmail.com
Sponsors: Collie Expressions and colliesonline.com

HOTELS

HOLIDAY INN EXPRESS, 303 Union Ave, Haskell, NJ 07420 Call 973-839-4405
“The Gathering at Sunnybank” Block Rate $95, Plus $25/day Pet Fee (NEW ROOMS AVAILABLE @ NEW PET FEE REQUIREMENT @)

DAYS INN (formerly LaQuinta), 1850 Rte.23 & Ratzer Road, Wayne NJ 07470 Call 973-696-8050
“Dog Show” Block $99, Pets Welcome

REGENCY HOUSE HOTEL, 140 Rte. 23 North, Pompton Plains, NJ 07444 Call 973-696-0900
“Collie Health Foundation” Block Rate $89, No Pets

HILTON GARDEN INN, 15 Nevins Road, Wayne NJ 07470 Call 973-878-1007
Double Room Rate $129, No Pets - http://group.hiltongardeninn.com/colliehealthfoundation

RESIDENCE INN MARRIOTT, 30 Nevins Road, Wayne NJ 07420 Call 973-872-7100
One Bedroom Suite/king Suite $149; Two Bedroom Suite $239, Plus $150 Non-Refundable Pet Cleaning Fee
Martha E Hoffman  
CHIC DNA Banking Project  
Sponsored by the Collie Health Foundation, Inc.

**Calling all Collies!**

CHIC (Canine Health Information Center) is sponsored by AKC/Canine Health Foundation and Orthopedic Foundation for Animals. Contributing to this project will be one of the most important things you can do to preserve the future of the Collie breed. With the gene pool of all purebred dogs shrinking, breeders need to make health testing the cornerstone of their breeding program. With your help, we will have a DNA bank that all approved researchers will have access to when they need samples for genetic research projects. As a donor, you will have access to your dog’s DNA when new tests become available. By banking blood samples, DNA will be extracted from the blood and then held at the University of Missouri. OFA believes this process will preserve the DNA forever. Please be a part of helping CHF and AKC/CHF researchers find genetic markers for bloat, epilepsy, cancer, and so many other health issues. Having samples available when new research studies become available will cut down the time for samples to be made available to researchers and lead to positive conclusions much faster.

- CHF will pay the $20 CHIC DNA Banking Fee for all Collies
- CHF will reimburse (with receipts) up to $125 for collection and shipping costs. Please do **multiple dogs** at a time to keep these costs under control. You are welcome to send healthy dogs in at the same time to be part of the control group.
- CHF will sponsor a DNA collection clinic at the Collie Club of America National Specialty Show in Virginia Beach in 2018. This will be co-sponsored by the Orthopedic Foundation for Animals and the American Kennel Club/Canine Health Foundation. Cindi Bossart, VMD will be managing the clinic.

**Collies to be Banked Immediately**

- Collies with genetic health issues and cancers.
- Veterans over 7 years old.
- Collies related to dogs with genetic health issues.
- If you must euthanize your Collie, please let him/her be an important part of the future of preserving the Collie Breed. We know this will be difficult but every Collie counts.
- **All Collies!**

[www.colliehealth.org](http://www.colliehealth.org)  
[www.caninehealthinfo.org](http://www.caninehealthinfo.org)  
[www.akcchf.org](http://www.akcchf.org)
How to Bank Your Collie

2. Click on this link and read: Instructions for submission via DNA Blood Samples. http://www.caninehealthinfo.org/dnabankinstrucblood.pdf
3. Download the DNA Banking application, CHIC health survey and CHF Supplemental Health survey from the Collie Health Foundation website: http://colliehealth.org/DNABanking.pdf
4. Fill out a separate application for every Collie you are banking.
5. Check Blood Collection Kit on the application.
6. Under payment, write in Collie Health Foundation.
7. Mail application to: CHIC DNA Repository 2300 E Nifong Blvd, Columbia, MO 65201-3806, or
8. Email the application to: edziuk@offa.org or
9. Fax application to: (573)875-5073.
10. Talk with your veterinarian about participating in DNA banking. Most veterinarians will give you a cost break to draw the blood. They can use a vet tech to do this. One vet has offered to collect blood on five Collies for $25 total. Shipping will be additional.
11. As soon as you receive the test kit, make an appointment with your veterinarian. Now, find out if your vet will ship the blood overnight for you and charge you the shipping costs. Most vets are already set up to do this, and it will make it easier for you.
12. Fill out both health surveys. The CHIC and the supplemental Collie Health Foundation health survey. When we are asking about genetic tests, we are looking for testing by blood or swabs that have been done by respected labs for Collies. Genetic tests from labs that run multiple DNA panels at one time should not be used. These may not be accurate. These low-cost panels were created by some labs for profit and to take advantage of the pet population. These results are not certified and could skew further research. If you are a breeder, these panel tests are worthless for your breeding stock. For help with filling out the health surveys, ask your vet, or contact CHF at president@colliehealth.org or patimer@aol.com if you have questions. The health surveys should be turned in at the time when the blood is shipped.

What to do Next

1. Scan or copy your receipts and email them to CHF Assistant Treasurer, Barbara Cleek, at barbara@lochlarencollies.com. Please CC Treasurer, Karen Anderson, at treasurer@colliehealth.org OR mail your receipts for reimbursement to: Collie Health Foundation, Inc., Barbara Cleek, Assistant Treasurer, 19631 SW Eagle Pt Rd, McMinnville, OR 92128.
2. Remember, please bank as many Collies as you can at one time to save the Collie Health Foundation additional shipping costs. Blood samples need to be shipped overnight and kept cool while in transit. The CHF Board voted to reimburse up to $125 per DNA collection and shipping when receipts are presented.
3. Please update your Collie’s health if something changes. This will be very important for future research. You do not need to report a death to CHIC unless it is due to a health issue that was not previously reported. Please report health updates to either of the following email addresses: ofa@offa.org or chic@ofa.org.
The Mystery and Heartache That Is Epilepsy

The Collie Health Foundation has supported Epilepsy research through grants totaling $77,000 since 2014 when we joined the AKC Canine Health Foundation’s Epilepsy Research Initiative as a Champion Sponsor, with a $50,000 donation. In late 2016, the Board approved a grant in support of a specific AKC research study relating to “Identification of Genetic Risk Factors for Canine Epilepsy” conducted by Dr. Gary S. Johnson DVM PhD at the University of Missouri Columbia. Then, in early 2017, the Board voted to add an additional $25,000 toward epilepsy research. With a $25,000 matching donating from AKC, the Collie Health Foundation was responsible for an additional $50,000 directed toward epilepsy research. In addition to the above study, studies currently underway include:

- **02248**: Identification of a Novel Juvenile Myoclonic Epilepsy Gene and Its Underlying Disease Mechanism  
  Principal Investigator: Dr. Hannes T Lohi, PhD; University of Helsinki and the Folkhålsan Institute of Genetics

- **02249-A**: Studying the Role of the Gastrointestinal Tract in Canine Epilepsy  
  Principal Investigator: Dr. Karen R. Munana, DVM; North Carolina State University

- **02252**: Investigating a Ketogenic Medium-Chain Triglyceride (MCT) Supplement for the Treatment of Drug-Resistant Canine Idiopathic Epilepsy and Its Behavioral Comorbidities  
  Principal Investigator: Dr. Holger Andreas Volk, DVM, PhD; Royal Veterinary College, University of London

In April 2017, a Canine Epilepsy Symposium was held at North Carolina State College of Veterinary Medicine. Board member, Michele Brane has graciously provided us with a synopsis of the symposium, including wonderful links to websites for further information. The following is Michele’s experience in her own words.

> When I was in my early teens, we had a Maltese that started having seizures when she was eight (she ultimately died after what I now know was a series of cluster seizures), and later I had a sheltie who had seizures infrequently, not enough to require medication. So I have had a little experience with dogs having seizures.

This symposium addressed four aspects of this devastating condition: The State of Canine Epilepsy (Dr. Karen Munana); Clinical Studies in Canine Epilepsy (Julie Nettifee); Nutrition Management of the Epileptic Dog (Dr. Korinn Saker); and Prepare for the Journey — Care For The Caregiver (Jeannine Moga).

According to Dr. Munana, about .75% of the dogs in the general dog population have seizures. (Editor’s note: According to the North Carolina State University website “In the U.S. alone some 780,000 dogs are diagnosed with the disease each year.”) The cause of these seizures may be inherited (underlying genetic cause), structural (underlying disease of the brain), or idiopathic (underlying cause is unknown). Seizures may be tonic clonic (“grand mal”), atonic (loss of ability to stand, confused, etc.) or focal (motor, sensory (“fly snapping”). They most often occur when the dog is at rest. Any seizure lasting more than 5 minutes requires intervention. Animals with epilepsy often have behavioral abnormalities like inattention, excitability, impulsiveness. So far, the gene for epilepsy has been identified in only a few breeds.

According to all the speakers, one of the most important things the owner of a dog that has seizures should do is keep a careful record of them. This can be invaluable in diagnosing the disease and planning treatment.

There are several websites that can be good sources of studies, research, and information, and were the basis for what was presented at this symposium:

- **International Epilepsy Task Force Consensus Reports**  
  [www.biomedcentral.com/collections/ivetf](http://www.biomedcentral.com/collections/ivetf)

- **ACVIM Consensus Statement**  
(overview of medications generally used to treat epilepsy, as well as some alternative options and their effectiveness in studies)

NC State canine epilepsy studies
https://cvm.ncsu.edu/research/labs/clinical-sciences/companion-animal-epilepsy/

Nationwide AVMA clinical studies database
https://ebusiness.avma.org/aahsd/study_search.aspx (search for AVMA clinical studies)

“It’s not the load that breaks you down. It’s the way you carry it.” Lena Horne

The last part of the symposium covered “caring for the caregiver.” Taking care of canines with epilepsy requires a substantial commitment on the part of the caregiver, much like that required for any chronically ill human, and takes a similar toll. It is important that caregivers take care of themselves as well as their charges.

This part of the symposium, as you might assume, provoked a lot of emotional response from the attendees. Some of them were dealing with epilepsy for the first time, like the young man who tearfully said that he needed help because he didn’t know what to do with his epileptic dog that he obviously cared for very much. The lady at the end of our row of seats was a long-time breeder who began sobbing as she shared that she was devastated to have produced a puppy that had epilepsy – and she had been so careful with her breeding... how could this have happened? The speaker, Jeannine Moga, provided information from the following list of resources as well as encouraged networking among the attendees.

NCSU Family & Community Services
https://cvm.ncsu.edu/nc-state-vet-hospital/small-animal/family-community-services/
(a service available to those living near Raleigh, NC)

Caregiver wellness
http://dailycaring.com/category/caregiver-wellness/

Resilience and Meditation Training (Mayo Clinic)
www.stressfree.org

Free Apps:
- MyCalmBeat
- Headspace
- Virtual Hope Box

If you are interested in canine epilepsy, and you live near North Carolina State University, I would suggest that you get in contact with Julie Nettifee, RVT, BS, VTS (Neurology) at janettif@ncsu.edu so that you can be notified of the next Symposium.

Other resources:
https://fivesibes.blogspot.com/search?q=Canine+Epilepsy
(blogger Dorothy Willis-Rafferty has written a book about her Siberian - What's Wrong With Gibson? Learning About K-9 Epilepsy - to help both adults and children understand epilepsy)

Canine Epilepsy Resources
http://www.canine-epilepsy.com/

One person’s record of their dalmation with epilepsy
http://internet.cybermesa.com/~dalcrzy/Emma.html
Meaningful progress is being made toward understanding and treating canine epilepsy, the most common neurological disorder in dogs. Canine epilepsy, which results in recurrent, unprovoked seizures, can fall into three categories: caused by structural problems in the brain (symptomatic epilepsy), attributed to unknown causes (idiopathic epilepsy) and inherited (genetic epilepsy).

Genetic epilepsy, is the focus of a current study by Dr. Hannes Lohi and his team at the University of Helsinki and the Folkhälsan Institute of Genetics. Dr. Lohi’s study has already succeeded in identifying a gene at the root of one type of the inherited disorder. It’s a breakthrough that impacts humans and dogs alike.

“Myoclonic epilepsies [those characterized by quick, involuntary muscle jerks] are one of the most common forms of epilepsy in humans and the canines,” Dr. Lohi explains. “Findings will not only help in veterinary diagnostics, but also provide a novel entry point to understand the pathophysiology [the functional changes] of the disease.” These findings could ultimately lead to improved treatment options for dogs with epilepsy and are the first step toward the development of a genetic test, which is crucial to early detection and prevention. “With the help of a genetic test, veterinarians can diagnose this specific epilepsy in their canine patients, while breeders will be able to identify carriers and revise the breeding plans to avoid future affected puppies,” Lohi says.

Currently, the genetic test is centered around one specific breed (the Rhodesian Ridgeback) but, with support from the Collie Health Foundation and other sponsors, AKC/CHF currently funds over $500,000 in canine epilepsy research to study different aspects of this multifaceted and common neurological disorder, including the potential role that genetics plays across multiple breeds.

Collie Health Foundation
Statement of Financial Position
As of June 30, 2017

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Grant Updates!

Samantha Wright, Program Manager, AKC Canine Health Foundation has provided progress reports on several AKC grants the Collie Health Foundation has helped to fund. The following updates are for grants that the Collie Health Foundation approved in 2014 through 2016. Check out our website, www.colliehealth.org, for progress reports on other AKC grants related to the Collie Health Foundation’s support of Bloat and Epilepsy Research as a Champion Sponsor.

Grant 02133: Canine Epilepsy: Genetic Variants, Biomarkers, and New Therapies  
Principal Investigator: Dr. Ned E. Patterson, DVM PhD; Institution: University of Minnesota

Original Project Description:  Epilepsy is a significant seizure disorder affecting all dog breeds. It is the most common chronic nervous system disorder in dogs, with a prevalence of 0.5% - 5.7%, resulting in approximately 2 million affected dogs in the USA. We have assembled a trans-disciplinary team to attempt to improve the fate of dogs that have epilepsy with a special emphasis on dogs with drug-resistant epilepsy. Dog with drug-resistant epilepsy have frequent seizures even when on 2 or more anti-epileptic drugs. The team includes Veterinarians, Canine Geneticists, Pharmacologists, Human Neurologists, Basic Scientists and Biomedical Engineers from the University of Minnesota College of Veterinary Medicine, College of Pharmacy, Institute for Engineering in Medicine, and Departments of Neurology and Surgery, and Mayo Clinic in Rochester, MN. We propose to evaluate traditional DNA genetic markers, blood biomarkers called microRNAs (miRNAs), and potential new drugs for the emergency treatment of seizures in dogs. In this phase 1 of the Canine Health Foundation Epilepsy initiative, our study goals are:

1. To identify genetic markers associated with epilepsy in Australian shepherds and Vizslas, and identify markers associated with epileptic dogs that are unresponsive to anti-epileptic drug therapy in order to develop genetic screening tests in phase 2;
2. To document microRNA levels in the blood of dogs with epilepsy in order to develop potential blood markers that vary between epileptic and non-epileptic dogs, and dogs with drug-resistant epilepsy; and
3. To perform initial testing of two new potential drugs for the emergency treatment of canine epilepsy.

Report to Grant Sponsor from Investigator: Our goal in these studies are to: 1. identify genetic (DNA) mutations associated with epilepsy and/or drug resistant epilepsy in Australian shepherds and Vizslas; 2. To see if blood microRNA (miRNA) levels vary within epileptic dogs and could be used as markers of predisposition to epilepsy and/or response to therapy; 3. To see if novel IV drugs (topiramate or allopregnanolone) might be effective for treatment of seizure emergencies in dogs (and people) by pilot studies with 3-5 epileptic dogs.

To date we have DNA for 86 affected and over 199 unaffected Australian shepherds, and 65 affected and 699 unaffected Viszlas. In initial analysis of 170,000 SNP genetic markers, we have found some chromosomal areas that may contain and epilepsy genes or genes for being less responsive to drug therapy for each breed, but as epilepsy is polygenic in both breeds with likely a number of related genes in each breed, we have not yet identified a marker or area that clearly stands out for a confirmed epilepsy gene. We will continue our studies in these breeds in the future as genetic technologies have new ways of analysis and we collect more DNA samples from each breed. In the microRNA studies we have obtained blood samples from 3 affected and 2 unaffected dogs are various times, and for the affected dogs at various times after a seizure. We have successfully measured miRNA levels and are in the process of final analysis looking for any patterns and associations for possible future use of blood miRNA as a diagnostic marker or marker of how severe is in an epileptic dog and/or how well therapy is working in epileptic dogs. In the IV drug studies for new emergency drugs for life-threatening seizures we have completed all of our IV topiramate studies and we have a paper that is about to be published with the results in the next few weeks. The conclusion is that IV topiramate appears to be safe and potentially effective in this pilot study of 5 dogs, and also gives information that IV topiramate might also be safe and effective for people since dog epilepsy and seizure emergencies are so similar to that in humans. This means IV topiramate could be used for possible future studies in veterinary (and human) emergency rooms for the treatment of seizure emergencies. We have just completed a similar study for IV allopregnanolone and initial results indicate it also is likely safe and effective. Once we have finished our final analysis of the allopregnanolone results we will pick one or the other of the promising new drugs.
for the emergency treatment on seizures in dogs (and people) for a clinical trial in dogs presenting to veterinary emergency clinics in future funding. We have previously done this (funded by the Canine Health Foundation) with IV levetiracetam in dogs and based on those results IV levetiracetam is now commonly used in veterinary emergencies.

**Grant 02257: Identification of Genetic Risk Factors for Canine Epilepsy**

**Principal Investigator:** Dr. Gary S. Johnson, DVM PhD; **Institution:** University of Missouri, Columbia

**Original Project Description:** Epilepsy is one of the most common neurologic diseases of dogs and a top concern of dog breeders. In spite of strong evidence that genetics is important in determining the risk of the common idiopathic epilepsy, numerous gene mapping studies have failed to identify a locus that accounts for that risk in either dogs or humans. Seizures occur when excessive activity goes beyond the normal threshold for brain function and many factors contribute to that level of activity. Thus it is thought that mutations in numerous genes can collectively contribute to increased activity until that threshold is exceeded, resulting in epilepsy. Any one of these mutations may be present in non-epileptic dogs as well, but because it only partially alters activity it would not produce seizures. This would, however, cause traditional gene mapping studies to overlook that mutation. Using a novel whole genome sequencing approach we will identify DNA variations in epileptic dogs that could affect the function of genes such as ion channels and neurotransmitter receptors that have been shown to alter the seizure threshold in humans or rodents. We will then directly compare the frequency of those variations in populations of epileptic and non-epileptic dogs rather than using the indirect markers used in traditional mapping studies. We predict that the increased power provided by looking for specific candidate variations rather than linked markers will permit the identification of epilepsy risk factors. These can then be developed into DNA tests to enable breeders to select against those risk factors.

**Report to Grant Sponsor from Investigator:** We proposed to generated and analyze whole genome sequences from 10 epileptic dogs. So far we have used AKC CHF funds to generate whole genome sequences for 8 epileptic dogs and we have analyzed 5 of these whole genome sequences. By the end of 2016, we expect to have generated and analyzed all 10 of the whole genome sequences. In addition, we have used funds from other sources to generate and analyze whole genome sequences for 4 additional epileptic dogs and 3 more epileptic dogs are scheduled for sequencing and analysis before the end of 2016. Once the whole genome sequences of all 17 epileptic dogs have been generated and analyzed, we will select 7 or more of the most promising epilepsy risk factor candidate mutations from these whole genome sequences and determine whether or not they occur more frequently in epileptic dogs than in epilepsy-free dogs of the same breed. We have also proposed to select 15 to 25 of the most promising epilepsy risk factor candidate mutations from approximately 500 canine whole genome sequences and determine whether or not they occur more frequently in epileptic dogs than in epilepsy-free dogs without regard to breed. This portion of the research is behind schedule because of unforeseen delays in the reconfiguration of a University supercomputer. The problem now appears to be rectified and we have asked for a 6-month no-cost extension of the funding period to allow us to complete this aspect of the proposed research.

**Grant 02002: Defining the Genetic Basis of Inflammatory Bowel Disease**

**Principal Investigator:** Dr. Karin Allenspach, DVM PhD; **Institution:** Royal Veterinary College, University of London

**Original Project Description:** Inflammatory Bowel Disease (IBD) is a group of disorders in which the intestinal tract has become invaded with the dog's own white blood cells leading to inflammation. Over time, this inflammation causes the intestine to become less efficient at absorbing nutrients from digested food and weight loss, and vomiting or diarrhea often result. IBD can be controlled, but not cured. The cause of IBD is poorly understood, but it appears that genetics, diet, intestinal bacteria, and abnormalities of the dog's immune system all play a role. Dr. Allenspach has recently identified genetic markers known as SNPs (single nucleotide polymorphisms) which she believes contribute to disease susceptibility. Beyond genetics, this research group has mechanistic data showing one of the putative mutations contributes to the inflammation seen in the intestine of dogs with IBD. In order to find all underlying genetic factors that could contribute to disease, they propose to perform a genome-wide association study. This study will lead to the development of new diagnostic and therapeutic avenues for canine IBD as has already been the case in people with IBD.
Grant Objectives: The objectives of the present study are to identify single nucleotide polymorphisms (SNPs), which may confer genetic susceptibility or resistance to IBD using a genome-wide association study (GWAS).

Report to Grant Sponsor from Investigator: This study was investigating the genetics of Inflammatory Bowel Disease (IBD) in German Shepherd Dogs (GSD) from the UK and the USA by using a Genome-Wide Association Study approach. The results of this study have revealed important factors that contribute to the disease and that could in the future help to find novel treatment options. In total we found 17 candidate genes. Twelve genes, two on chromosome 7 and ten on chromosome 11 (see Table) are involved in inflammatory or immune response pathways and also have been previously reported to be associated with human IBD.

<table>
<thead>
<tr>
<th>Chromosome</th>
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<tr>
<td>Ch7</td>
<td>PTPRC, C1orf53</td>
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<tr>
<td>Ch11</td>
<td>IL3, IL4, IL5, CSF2, IL13, SLC22A4, SLC22A5, IRF1, AC5L6, PDL1M4</td>
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</table>

These exciting results have identified previously unknown candidate genes that are involved in the pathogenesis of IBD in GSD. This knowledge will form the basis of further studies to identify the mutations in these genes contributing to the disease and will help identifying novel clinical markers and treatment options for IBD in dogs.

Grant 02138: Development of Accurate Diagnostic Tests for Canine Hypothyroidism
Principal Investigator: Dr. Jan A Mol, PhD; Institution: University of Utrecht

Original Project Description: Primary hypothyroidism is one of the most common endocrine disorders in dogs. The insufficient secretion of thyroid hormones may result in severe physical and mental changes, such as lethargy, alopecia, obesity, decreased cardiac output, and decreased renal perfusion. The diagnosis of hypothyroidism is sometimes problematic. The circulating thyroxin (T4) concentration is below the reference range in most dogs with primary hypothyroidism, but T4 is not very specific as it can also be low in sick dogs with a normal thyroid function, i.e., dogs with non-thyroidal illness (NTI). However, a combination of a low T4 concentration and a clearly elevated plasma thyroid stimulating hormone (TSH) concentration is a definitive proof of hypothyroidism. Unfortunately, about 30% of dogs with primary hypothyroidism have a TSH concentration within the reference range and therefore cannot be distinguished from dogs with NTI. Consequently, either dogs with NTI are unnecessarily treated with thyroxin supplementation or dogs with primary hypothyroidism may lack proper treatment.

We propose to investigate 3 methods that may provide a more accurate diagnosis than the currently available tests for practitioners. We will test whether 1) a stimulation test with measurements of plasma growth hormone and TSH concentrations, 2) the plasma TRH or ghrelin concentration, or 3) a reporter assay for plasma thyroid hormone bioactivity, can be used to differentiate between dogs with primary hypothyroidism and dogs with NTI.

Utrecht University has a worldwide reputation on endocrinology in companion animals and is the place to come up with better tests to reliably diagnose primary hypothyroidism in dogs.

Grant Objectives: To investigate 3 methods that may provide a more accurate diagnosis of canine hypothyroidism than the currently available tests.

Report to Grant Sponsor from Investigator: (Final Report) The diagnosis of canine hypothyroidism (low plasma concentration of the thyroid hormone thyroxine) can be cumbersome as dogs with other, non-thyroidal illnesses may have also low plasma thyroxine concentrations. In the majority of otherwise proven hypothyroid dogs the measurement of the plasma thyroid stimulating hormone TSH shows elevated plasma concentrations, compatible with the diagnosis hypothyroidism.

However in about one-third of dogs with hypothyroidism plasma TSH concentrations are within reference ranges, as is also the case of dogs with non-thyroidal illnesses. Due to these problems dogs are diagnosed incorrectly with hypothyroidism and even unnecessary treated with thyroxine supplementation.
At the university clinic for companion animals of the Faculty of Veterinary Medicine of Utrecht University in The Netherlands a study was done with dogs with the suspicion of being hypothyroid that were presented with low total thyroxine concentrations and TSH concentrations within the reference range. These dogs were classified in dogs with hypothyroidism or in dogs with non-thyroidal illness using imaging of the thyroid gland. Next they underwent a TRH-stimulation test. It is demonstrated that measurement of plasma growth hormone (GH) rather than plasma TSH concentrations could distinguish between these two conditions.

Our advice is to perform this test in all dogs suspected of being hypothyroid and that are presented with low total T4 and normal TSH plasma concentrations before substitution therapy is started to treat hypothyroidism.

**Grant 02210: Gene Therapy for Canine Degenerative Myelopathy**
Principal Investigator: Dr. Brian K Kaspar, PhD; Institution: The Research Institute at Nationwide Children's Hospital

**Original Project Description:** Degenerative myelopathy (DM) is a devastating neurodegenerative disease that affects multiple breeds of dog. DM is an adult-onset disease that manifests at the later stages of life. It is characterized by progressive weakness and inability to control hindlimbs, ultimately leading to involvement of forelimbs and complete paralysis. With no current treatments available, euthanasia is the only option available for DM-affected dogs. Recent studies have identified mutation in Superoxide dismutase 1 (SOD1) gene to be a high risk factor associated with canine DM. In humans, mutations in the same SOD1 gene cause Amyotrophic Lateral Sclerosis (ALS), a neurodegenerative disorder very similar to canine DM. It is also shown that reduction of mutant SOD1 in ALS mouse models provides beneficial effects. Hence, therapeutic approaches to reduce the expression of mutant SOD1 in DM-affected dogs may improve survival and preserve neurologic function. In this study, we will evaluate a viral based gene therapy approach to treat DM. We will utilize Adeno-associated Virus 9 (AAV9) mediated delivery of shRNA to reduce the mutant SOD1 in DM affected dogs. AAV9 is safe, well tolerated and widely used vector used for the gene therapy in animals as well as in humans. We expect that a one-time treatment with AAV9 SOD1 shRNA will result in improved quality of life, and significantly extend the survival of dogs affected with this previously hopeless disease.

**Report to Grant Sponsor from Investigator:** The overall goal of this study is to improve survival and the quality of life of canine patients with Degenerative Myelopathy by a viral based gene therapy approach to treat DM. Our main objective here is to determine the safety and efficacy of AAV9 mediated SOD1 reduction in DM patients. Moving towards our final goal, we had designed and tested 3 different shRNA construct that can reduce the levels of SOD1 in dog skin cells. The most efficient construct has been then molded into an AAV cassette that is optimal for the final preparation of AAV9 shRNA SOD1 virus. To determine if the AAV9 shRNA SOD1 virus is functional before its administration into patient dogs, we have also established a cell-based assay using dog skin cells. Finally, we have also established a screening method to select the suitable patient candidates for the administration of AAV9 shRNA SOD1 based on the levels of neutralizing antibodies in serum. Pre-existing neutralizing antibodies pose an obstacle against viral based therapies as they can clear the therapeutic viral particles thus neutralizing its biological effect. Hence, it is critical to screen and select the patient population with minimal levels of such antibodies to maximize the benefits of the gene therapy. Thus, with the final construct and the essential assays available, we are gearing up for the production of our final scAAV9-dSOD1 shRNA vector to be administered into DM dogs.

**Grant 02226-A: Pilot Clinical Trial to Test the Efficacy of Mesenchymal Stem Cells Over-Expressing IL-10 to Treat Osteoarthritis in Elbows of Senior Dogs**
Principal Investigator: Dr. Fernando A Fierro, PhD; Institution: University of California, Davis

**Original Project Description:** Osteoarthritis (OA) is characterized by both chronic inflammation and structural defects in cartilage and subchondral bone. Mesenchymal stem cells (MSC) have become ideal candidates for therapy, because these cells could contribute to the treatment of OA in two ways: they can differentiate and replace the damaged cartilage and bone, but also secrete key signals that regulate the immune system. In fact, at least 13 early-stage human clinical trials are underway and three canine trials have been completed testing the delivery of
MSCs into patients with OA. Certainly, this approach has, and is expected to demonstrate, a satisfactory safety profile. However, to date, clinical efficacy has been poor, due to an insufficient contribution from the cells. Dr. Fierro and team propose an optimized treatment for OA by combining cell and gene therapies which will induce the expression of the anti-inflammatory cytokine interleukin 10 (IL-10) in canine adipose tissue derived-MSCs. This approach is based on the research team’s experience on a planned first-in-human Phase I clinical trial with a very similar approach, strictly adhering to the same safety profile requested by both clinicians and regulatory agencies. The main goal of this proposal is to conduct a pilot study in four senior dogs, injecting 5-7 million MSC/IL-10 cells (carried in 0.5 ml hyaluronic acid) into one elbow with more severe OA. The proposed outcome measurements are objective and rely on the latest technology. With this pilot study, the investigators expect to demonstrate both safety and efficacy of MSC therapy for this important unmet clinical need, and ultimately find a cure for OA in senior dogs.

Report to Grant Sponsor from Investigator: (Final Report): Osteoarthritis (OA) is characterized by both chronic inflammation and structural defects in cartilage and subchondral bone. It occurs frequently in senior dogs and represents an immensely unmet clinical need. Mesenchymal Stem Cells (MSC) has the potential to be an ideal therapy since they both differentiate and replace damaged tissue while secreting key signals that regulate the immune system. In fact, at least 13 early-stage human clinical trials are currently underway and 3 canine trials have been completed testing the delivery of MSCs into patients with OA. While this approach has been demonstrated to be safe, the clinical efficacy of MSCs has historically been poor due to insufficient cellular activity. We proposed to optimize treatment for OA by combining cell therapy with gene therapy to maximize activity by inducing the expression of the anti-inflammatory cytokine interleukin 10 (IL-10) in canine adipose tissue derived-MSCs. This approach is based on our experience preparing for a human Phase I clinical trial with a very similar approach strictly adhering to the same safety profile requested by both clinicians and regulatory agencies. We conducted a pilot study in 3 senior dogs (8-12 years old), injecting 5-7 million MSC/IL-10 cells into the one elbow with severe OA. At different time points (time 0, 2, 4 and 12 weeks) the owners completed a validated questionnaire and force platform gait analysis was performed using the latest technology. With this pilot study, we demonstrated safety but the low number of animals did not allow conclusive results regarding efficacy, albeit a positive trend observed in these senior dogs upon treatment. Our results are encouraging and warrant future studies to test (1) more dogs, (2) a higher cell dose and (3) include animals with less severe forms of OA.

Grant 02264-A: Role of E. Coli Biofilm in Canine Pyometra
Principal Investigator: Dr. Marco A Coutinho da Silva, DVM, PhD; Institution: Ohio State University

Original Project Description: Pyometra is a potentially life-threatening infection of the canine uterus by bacteria, most commonly Escherichia coli (E. coli). In humans with recurrent infections, E. coli produces a biofilm, a layer of polysaccharide that protects the organism from the host immune system as well as antibiotic agents, decreasing treatment efficacy. Current treatments for pyometra are costly, time-consuming, and not without risk to the bitch. The investigators postulate that biofilm production by E.coli within the endometrium of the bitch may be responsible for perpetuating the disease and making treatment difficult. In this pilot study, the potential of E. coli obtained from clinical cases of canine pyometra to produce biofilm will be evaluated in vitro and in vivo. Endometrial samples from clinical cases of pyometra procured from collaborating private practitioners throughout the country will be evaluated for the presence of biofilm in situ, as well as the ability of the isolated bacteria to produce biofilm in vitro. If successful, demonstration of the presence of biofilm in the endometrium of bitches affected by pyometra could lead to development of new therapeutics targeted to disrupt the biofilm, resulting in improved treatment for canine pyometra.

Report to Grant Sponsor from Investigator: Currently a total of 45% of needed samples have been received, of which 75% have grown the bacterium, Escherichia coli (E. coli). These results are consistent with previously published reports identifying E. coli as the most common pathogen associated with canine uterine infections. Material suggestive of biofilm has been directly visualized on all samples evaluated (4/4) so far. Data collected will be presented at the annual meeting of the Society for Theriogenologists (veterinarians dedicated to animal reproduction). The current study findings are encouraging, and completion of the study is expected by April 2017.
Welcome to the Family!

The Collie Health Foundation Welcomes the Following New Members

Robert Bodnar  
DeLand, FL

Wesley Brown  
Sedalia, MO

Sharon Calahan  
Denver, CO

Cynthia, Caeley, Gabrielle & Isabel Campbell  
Steelville, MO

Peter Campbell  
Edinboro, PA

Jacqueline Caruso  
Ridgefield, CT

David Clarke***  
Gwynne, Alberta

Geraldine Cox***  
Encino, CA

Rebecca Cox  
Sylvester, GA

Paula Dennis  
Baton Rouge, LA

Kathy Farnsworth  
Corvallis, OR

Julie Foster  
Kansas City, MO

Tim Garrison***  
Ft. Lauderdale, FL

Chris Goodwin  
Wilmington, IL

Julie Grantham***  
Meridian, MS

Heather Hempstock  
Westbank, BC

Remy Henderson  
Bellvue, WA

Susan Hernquist  
Edinboro, PA

Linda Holmes  
Goodyear, AZ

Daniel & Mary Jackson***  
Ridgefield, CT

Becky LaSpina***  
Lincoln, CA

Melinda Martin  
Harrisville, MI

Savannah McCloskey  
Bloomsburg, PA

Justis & Charles McLaren  
Federal Way, WA

Kathleen Mesler  
Castle Rock, CO

Kathy & Gretchen Morrison  
La Mesa, CA

Susanne Nassler  
Florsbachtal Germany

Tenna Perry  
Browns, IL

Kathleen Pirro  
East Haven, CT

Lynda Powers***  
La Mesa, CA

Brandon Reigh  
Bloomsburg, PA

Maria Siebeck  
Livingston, MT

Sandy Schwedler***  
Carrollton, TX

Vanessa Smith  
Ashburn, VA

Daniel & Cristal Splitter  
Olympia, WA

Jeanine Stannard  
Victoria, BC

Crystal Stoner  
McMinnville, TN

Lisa & Mike Wallis  
Belleville, MI

Correction to the Listing of New Members that Appeared in the Winter 2017 Newsletter

Marion Eder  
Otterberg Germany

Note: **indicates previous member…Welcome Back!

New Members – February 1, 2017 through June 30, 2017

Donations in Honor/Celebration/Memory/General Donations
February 1, 2017 – June 30, 2017

Donor  
In honor/callibration/memory of…

Loretta Allen  
General Fund

Anoka County MN Kennel Club  
On behalf of Gloria Zopfi in Memory of Smeagol

Eileen Bator & Steve Steward  
In Memory of Susan Deatherage
Donor continued  

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<th>Donor Name</th>
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<tr>
<td>Lynn Beidler</td>
<td>In Memory of Becky Crowley</td>
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<td>Robert Book</td>
<td>In Memory of Frank Ortolani Jr</td>
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<tr>
<td>Tracy Bowman</td>
<td>In Memory of Sue Deatherage</td>
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<tr>
<td>Corrine Brown DVM</td>
<td>Honoring Deborah Gates &amp; in loving memory of Robin</td>
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<tr>
<td>Mary Ann Campbell</td>
<td>General Fund</td>
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<tr>
<td>David &amp; Gail Claus</td>
<td>In Memory of Susan Deatherage</td>
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<td>Collie Club of Maryland, Inc.</td>
<td>In Memory of our beloved member, Sue Deatherage</td>
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<tr>
<td>Anne Cross</td>
<td>In Memory of Maralyn Busse</td>
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<tr>
<td>Melanie Davie</td>
<td>In Memory of Frank Dunn</td>
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<td>Susan DeLorenzo</td>
<td>General Fund</td>
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<td>Mr. &amp; Mrs. Harold V. Feeney</td>
<td>In Honor of Gayle Ann Stepanik, breeder of Reiki</td>
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<tr>
<td>Steve &amp; Lisa Finken</td>
<td>In Memory of Becky Crowley</td>
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<tr>
<td>Michael Fitzgibbon</td>
<td>In Memory of Frank Ortolani Jr.</td>
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<tr>
<td>David Gibbons</td>
<td>In Memory of Frank R. Ortolani Jr.</td>
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<tr>
<td>Julie Grantham</td>
<td>In Celebration of Bella</td>
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<td>Cynthia Guenther</td>
<td>In Memory of Charles Ostertag Jr.</td>
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<tr>
<td>Gayle Guthman</td>
<td>Honoring Kathryn Leenhouts for being such a good friend to all collies</td>
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<td>John &amp; Lois Hallberg</td>
<td>In Memory of Jake, loved by Sue Sucheta</td>
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<td>Hawthorn PNC Family Wealth</td>
<td>In Honor of the life of Edward Bauer</td>
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<td>Rebecca Hein</td>
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<td>Joan Hamilton</td>
<td>In Memory of Sue Deatherage</td>
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<td>Dorothy &amp; Harlan &quot;Bud&quot; Hockenberg</td>
<td>In Memory of Becky Crowley</td>
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<td>J. Howard Hunt III</td>
<td>In Memory of Frank Ortolani, Jr.</td>
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<tr>
<td>Mary Hunter</td>
<td>Welcoming Mirabeau Arran Nightcap (Will) and the un-Collie, Matt, to the Arran Collies family</td>
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<td>Hunterdon Hills Collie Club</td>
<td>In Memory of John Oliphant</td>
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<td>Russell &amp; Lucile Johnson</td>
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<td>Karin L. Johnson-Page</td>
<td>Employee Matching Gift from Donate Well</td>
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<td>Patricia &amp; Larry Jung, Palary Collies</td>
<td>In Memory of Becky Crowley</td>
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<td>Jean Kappelmann</td>
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<td>Dwight Kayto &amp; Brenda Caswell</td>
<td>Remembering our special boy, Dreamer, CH Vividus Audacity of Hope, February 13, 2009 ~ August 16, 2016</td>
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<td>Connie Sue Kiplinger</td>
<td>In Memory of Becky Crowley</td>
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<td>Judith D. Kirkeby</td>
<td>In Memory of Ellee, CGC, RN and a dedicated therapy dog</td>
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<td>Ladell Lybarger</td>
<td>In Memory of Becky Crowley</td>
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<tr>
<td>Carol S. Martin</td>
<td>In Memory of her smooth collies, Heather &amp; Candi, and in Honor of her smooth collies Cayla &amp; Edward</td>
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<tr>
<td>Nancy McDonald</td>
<td>Happy 13th Birthday to Barksdale Regimental Colors, VCD2, UDT, PT, JHD, NA, NAJ, AXP, AJP, VC &amp; to Judy Cummings</td>
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<td>Nancy McDonald</td>
<td>Happy 13th Birthday to Blacqui</td>
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<td>In Memory of Frank Ortolani Jr</td>
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<td>Grant &amp; Pati Merrill</td>
<td>In Celebration of the wonderful fun person that Becky Crowley always was</td>
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<td>Gretchen &amp; Kathryn Morrison</td>
<td>General Fund</td>
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<tr>
<td>Wayne &amp; Marilyn Nelson Foundation</td>
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<td>Northern Wisconsin Collie Club</td>
<td>In Memory of Roger Winnie founding member of NWCC</td>
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<td>Charles &amp; Nancy Noyes</td>
<td>In Memory of Becky Crowley</td>
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<tr>
<td>Gerrie D. Oliver</td>
<td>In Honor to Toni Bailey with thanks for sharing her collie hair &amp; talents making these great hats; In memory of Jacqueline Mengone; In Memory of Becky Crowley; In Memory of Carol Lieberman; To Kathy &amp; Lou George in memory of their whirling dirvish &quot;Vito&quot;</td>
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<td>Thomas Ortolani</td>
<td>In Memory of Frank Ortolani Jr</td>
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<td>Tom &amp; Jeannette Poling</td>
<td>In Memory of Diva, CH Chelsea Midsummer Classic, HIC, owned &amp; loved by Don &amp; Gayle Kaye</td>
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<td>San Diego Collie Club</td>
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<td>In Memory of George Horn</td>
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<td>Shirley Schaffer</td>
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<td>Shirley Schaffer</td>
<td>In Memory of Cheryl Thompson</td>
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<td>Chris Sovacool</td>
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<td>Nancy Van Note</td>
<td>In Memory of Becky Crowley</td>
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<td>Roy &amp; Shelly Veach</td>
<td>In Loving Memory of her sister Becky W. Crowley</td>
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<td>Mr. &amp; Mrs. Jack Wahlig</td>
<td>In Memory of Becky Crowley</td>
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<td>Donna J. Walle</td>
<td>Corporate Matching Gift</td>
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<td>Byron Ward</td>
<td>General Fund</td>
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2017 Foundation Family

Life
Helga Kane
Harold W. Sundstrom

Benefactor
Christine K. Dungan
Diane Palumbo

Patron
Karen & Jeff Anderson
Donna J. Walle

Sustaining
Debra & Shawn Amszi
Carol Belo
Collie Club of New England, Inc
Terry & Mary Cox
Roz Durham
Douglas Gobeski
Krista F. Hansen
Betty L. Hodgson
Robette G. & Steve Johns
Linda L. Kuribayashi
Dr. Stephen & Nancy Machinton
Erin Matthews & Rich Bellows
Todd & Brenda Merchant
June E. Morris
Russell & Catherine Petter
John C. & Constance J. Quillinan
Beverly Ann Schwab
Bonnie Tovell
Tokuko Watanabe

Family
Susan Abelt
Rich & Sue Altwater
Suzanne Benchoff & Dennis Cronin
Kenneth M. & Erin BlaASURE
Dr. Cindi Bossart & James Efron
Patricia & Ray Caldwell
Ted & Jean Chamberlin
Rebecca Cox
Kenneth & Helen Dombeck
Marilyn & Carter Eggers
Fred F. & Rita A. Figg
Chandra & Michael Flaim
Kirt Adams
Nancy Anstruther
Mary Benedict
Claudette & Cassandre Boelter
Brian & Michele Brane
Mary & Tom Callaham
Thomas & Jane H. Clymer
Neal & Frances Current
Courtney Dowling
Dennis R. & Carol F. Elliott
Marcy & Mike Fine
Robert H. & Sally Futh
Patrick & Judith Adams
Susan J. Barmby & Rosemary Coyle
Joani & Sami Berg
Corinne & William Boerth
Bethany Burke & Martin Owen
Cynthia, Caeley, Gabrielle & Isabel Campbell
Colbie of Maine
Robert & Gail Currie
Howard A. Dullig
Cynthia Elliott & Kristin O'Neal
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Linda Garrett & Kathy Hughes
Lyle & Lenora Alexander
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Jane Cooley & Cynthia Childrey
Paul & Donna Darland
Pam & Louis Durazzano
Vernon & Lora Esch
Katie & Joshua Finley
Dr. Robert & Mrs. Janice Geller
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Bibi & Richard Hand
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Clayton, Garrett. & Tammy Rice
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Mark & Laura Seelinger
Jim & Judy Smotrel
Richard L. & Mary G. St.Clair
Felicia Sternbach & the Renaissance Family
Wendy & Hollyn Toomey
Lisa & Mike Wallis
Laurence Weltman

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Loretta Allen
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Patrick W. Bahr
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