From the President, Robette Johns  
6132 Southfield Lane, Oswego, IL 60543  
Phone: 704-219-8277/Email: president@colliehealth.org

As I write this snow is falling, our country is still in the throes of the pandemic, and the election is next week. Thankfully, the Collie Health Foundation is much more boring than the country we live in. As 2020 comes to a close (deep breath), you will be receiving a dues renewal letter from Gail Currie, one of our Vice Presidents and our Membership Chair. Although our fundraising was severely limited this year, we continued to support the Collie, and our members, as we had promised at the beginning of 2020.

There have been questions about why the Collie Health Foundation has partnered only with Wisdom Health for subsidies for our members. I have written an article with support from Dr. Casey Knox and Sue Pearce-Kelling (formerly with OptiGen) from Wisdom Health. I think it is important for members to understand that we vetted Wisdom Health very carefully to make sure they are the most credible lab and they go by the rules when purchasing licensing to run tests patented by other labs. After this article is published in the CCA Bulletin, it will be on our website.

I want to make it easier for people to order and understand health testing so I have started a series of articles with “Collie Health Testing 101”. This first article will be in the CCA Bulletin that should be in your hands before this newsletter arrives. “Collie Health Testing 201” will follow in the next issue. There will be as many articles as needed to make our breeders feel comfortable with breeding healthy Collies.

I want to thank everyone who participated in the jewelry Raffle for Research. This was a big help with fundraising at a time when we needed it the most. As usual, you supported CHF by purchasing our limited “The Gather at Sunnybank” items. With one hand tied behind her back, Gerrie Oliver put on our first (and we hope our last) “virtual” Sunnybank. Gerrie had wonderful volunteers to make this happen whom I’m sure she will thank in her article on page 4. Thank you Gerrie for making it possible for CHF to have the “Gathering” under such difficult circumstances!

As you are surfing the web for gifts, please do not forget to use Amazon Smile (www.smile.amazon.com) for all your Amazon purchases and choose the Collie Health Foundation as your favorite charitable organization, or you may find us...
under, Collie Club of America Foundation. Before you buy elsewhere, look at our Shop (colliehealth.org/shop/) and see if we might have that perfect gift for that special someone. What about the throw we are offering at a deep discount with the beautiful artwork “Snowfall” by Cindy Alvarado-Yeary? Maybe a tote is a great thank you gift for an employee.

I'm not sure what our Holidays will look like this year, but I do know that we are lucky to have our Collies to comfort us. Our gatherings will be smaller, but still filled with memories of special holidays past, dinners, gifts, or that once in a lifetime surprise. When it’s time for Auld Lang Syne to be sung, all of us have one thing in common, we will have survived the 2019 - 2020 COVID-19 Pandemic.

Please stay safe and well. Happy Holidays! --Robette

In our last newsletter we reported that we needed collies to participate in 3 of the studies we are funding and boy did you step up!! A HUGE THANK YOU to all of you! But more collies are needed!!

**Dermatomyositis Modifier Study: Clemson University – Dr. Leigh Anne Clark**

225 Collies are in the official study population. Dr. Clark is still looking for samples from AAbb DMS-affected collies and healthy AAbb seniors. Clemson will test any dog with signs of DMS for free. Please contact Sarah Murphy at scmurph@g.clemson.edu

**Epilepsy Study: Clemson University – Dr. Leigh Anne Clark**

144 Collies are in this official study population. Dr. Clark is still looking for Normal controls for this study. Collies should be 8 years or older and 1) have no sign of epilepsy and 2) have no relatives with epilepsy. Three generation pedigrees must be provided. Prefer dogs that have had one owner and have lived indoors.

Dr. Clark also needs epileptic Collies. Dr. Clark prefers a pedigree on the epileptic Collies too but will take the sample anyway if necessary. Samples should be blood. Please contact Sydney Abrams at srabram@g.clemson.edu

If you have dogs banked with CHIC that fit these studies, please let Sarah or Sydney know.

**CEA Coloboma Research – Dr. Gustavo Aguirre, VMD, PhD**

Is gathering information looking for the modifying gene in CEA that causes colobomas. He needs dogs that have had a clinical diagnosis of choroidal hypoplasia AND Coloboma or detached retina(s) by a veterinary Ophthalmologist. Please contact Pat Jung at palary@msn.com if you wish to participate.

**DMS Survey Participants Needed!**

Sarah Murphy, Ph.D. Candidate, Clemson University is asking for our help with a confidential survey they have created to collect the information necessary to determine if a relationship exists between body size and DMS genotype. You will be asked to provide sex, coat type, the height, weight, approximate age at measurement, and DMS genotypes of your dog. If you are interested in helping, please go to: https://docs.google.com/forms/d/e/1FAIpQLSdI9UxwaFa7QqBt3ppDA26VT7b6NIkWxrGnbE2eEWZwplkkrA/viewform

Dr. Leigh Anne Clark - Clemson University is asking our members to participate in a new survey on cryptorchidism in Collies & Shelties by doing a short survey to gather information from owners about dogs affected with cryptorchidism. The survey can be found here https://docs.google.com/forms/d/e/1FAIpQLSdyUcmMUSqKiKr0mUA1Me5RRGa6zSd2ndLSSWJL8VlyGrjrpw/viewform
Fall into amazing gifts!

Shop our online store
Colliehealth.org

NEW! Boar Bristle Brushes
NEW! Collie Holiday Cards
NEW! Colorful Canvas Tote Bags
More!
GATHERING IN PLACE
2020 Hindsight: A Look Back at Bruce

Truly the 2020 Gathering at Sunnybank was like no other. The pandemic forced CHF to create ways to bring you the best possible Gathering experience without gathering at Sunnybank at all.

As a unique opportunity to those who may not ever have the chance to see Sunnybank in person, Kathy George began Saturday’s programs with a video of an abbreviated Sunnybank Walking Tour debuted on the CHF Facebook site first thing on Saturday morning. I was delighted to accompany her (at a masked distance) along the way to see the grand site beginning with the Sheep-nosed Tree, the area where the house once stood, the majestic Champion Rock, Lily Pond, and Jack.

Later, our regular Terhune Sunnybank Memorial team of speakers rose to the occasion to bring you a brand new look at Bruce with:

- “A King from Queens: The Astoria Story”
  Kathleen Rais MacMurray on Bruce’s beginnings on the sidewalks of New York.

- “Building on Bruce: A Faultless Foundation”
  Krissy Marshall on Bruce’s life at Sunnybank.

- “The Literary Bruce; A Character Without a Fault”
  Kathy George on the Bruce we love from Terhune’s writings.

The traditional Biennial Collie Memorial was held on Sunday morning beautifully hosted by Susan DeLorenzo despite the downpour of rain. Mother Nature joined us in shedding her tears as Susie read this poem by Teri Harrison:

PAWPRINTS LEFT by YOU…

You no longer greet me,
As I walk through the door.
You’re not there to make me smile,
To make me laugh anymore.
Life seems quiet without you,
You were far more than a pet.
You were a family member, a friend,
A loving soul I’ll never forget.
It will take time to heal-
For the silence to go away.
I still listen for you,
And miss you every day.
You were such a great companion,
Constant, loyal and true.
My heart will always wear,
The pawprints left by you.
Special thanks to “Flower Lady” Leigh Cohen for gracing the memorial with the beautiful wreath and bouquet. Thanks to the handful of “planters” who braved the weather to help us honor our beloved collies and friends in this tribute: Roy DeLorenzo, Linda Raven with her Collie honor guard, Kathy & Lou George, and Courtney Luikert. And thanks too to videographer Ron Sherr.

The Sunday afternoon’s programs were puppy evaluations with informative and educational presentations beautifully done by Nancy McDonald with litters from Sunnland with Marie & Blaire Mullin, and Belleville with Katy & Kathy Preddy and Nancy’s own adorable sable & white girl at Barksdale.

Best of all is that this year, if you missed it, you can see it again and again whenever you want on the CHF Website Sunnybank Event page.

Stay well and safe. Hope to see you in 2021, August 21 & 22.

Gerrie Oliver
aka The Madam
You Think Figuring Out Health Testing is Too Hard?
Collie Health Testing 101*
By Robette Johns, President

I have heard a lot of complaints lately about how difficult it is to figure out health testing and applying for subsidies. I was really taken aback by this. Since the Collie Health Foundation has multiple purposes, and one is education, this hit me hard. When I was asked if I could write an article, I thought this might help many of you and in the end make me feel better.

The Collie Health Foundation has updated our website to make it easier for you to request codes and links from our Vice President and assistant Treasurer, Krista Hansen. Joan Johnson added a picture of a rough blue puppy to every testing page including the main page of “Test Your Collie”. When you click on this picture a form pops up for you to fill out. Once you are done, and prove you are not a robot, you hit send and then the form automatically is sent to Krista. Voila`!

Tests

MDRI Only – Multidrug Sensitivity:

• This is for Collies that will not be bred, tested further with Optimal Selection™, or that are older and have never been tested before. The knowledge of the sensitivity of your Collie to certain drugs could someday save your dog’s life.
• Click on blue puppy and put number of Collies you are testing under MDR1 Only and fill out and send form. After Krista receives the form, she will tell you how to order the MDR1 tests
• Original Cost $60, less $20 Subsidy from CHF your member brings your membership cost to $40 at time of purchase
• Method – Cheek Swabs
• Lab at Washington State University – They mail the swabs to you after you order.

DMS – Dermatomyositis:

• This is a RISK assessment test. If you plan on breeding your Collie this is a test that any responsible breeder should have in their tool chest. This disease involves skin and muscle tissue. Please go to colliehealth.org for more information.
• Click on blue puppy and put number of Collies you are testing and fill out and submit form. Krista will send you a one-time use link.
• Original cost $100, less 15% discount from Wisdom Health and less $50 Subsidy from CHF brings your member cost down to $35.
• Method - Cheek Swabs
• Order Cheek swabs from the CHF shop at our cost - https://www.colliehealth.org/product/chf-swab-kits/
• Lab – Wisdom Health
Rcd2-PRA – Progressive Retinal Atrophy:

- This test is for Collies that will be bred, or Collies that come from untested lines, or lines that are known to have PRA crop up in the pedigree. This test will tell you if your Collie is a Carrier or Affected with progressive retinal atrophy which could cause your Collie to go blind at some point in his or her life.
- Click on blue puppy and put number of Collies you are testing and fill out and submit form. Krista will send you a one-time use link.
- Original Cost - $130, less 15% discount from Wisdom Health, and less $50 subsidy from CHF brings your member cost down to $60.
- Method – Cheek Swabs
- Order Cheek swabs from the CHF shop at our cost - https://www.colliehealth.org/product/chf-swab-kits/
- Lab – Wisdom Health

OS - Optimal Selection™ Canine Genetic Breeding Analysis**:

- This is for all Collies that might be bred or have any of the health issues in their line that this test covers:
  - MDR1 – Multidrug Resistance (Licensed by Washington State University – VetMed)
  - CCN – Canine Cyclic Neutropenia – Grey Collie
  - DM – Degenerative Myelopathy
  - CEA – Collie Eye Anomaly – (MARS purchased OptiGen in 2018 and owns the rights to the testing method). This is an add on test to be ordered after you have received your Optimal Selection results. Cost is 20 EUR or around $25
  - Coat Trait – Length - Rough or Smooth (Rough factored Smooth)
  - Color Traits – Color and Patterns including Merle
  - GENETIC DIVERSITY - “The Breeders Tool Box”
    - Diversity of the individual dog tested
    - Diversity of the overall breed population
    - Diversity of the overall breed population compared to the diversity of other related breed populations
- Click on blue puppy and put number of Collies you are testing and fill out and submit the form. Krista will send you a discount code that is a one-time use code. (There are times we are waiting for new codes from Wisdom Health and there might be a delay to get new code numbers)
- Original Cost $130, less 15% Wisdom Health Discount and less $50 CHF Subsidy brings your member cost down to $60.
- Lab – Wisdom Health
In my next article, “Collie Health Testing 201”, I will cover why to health test, more about testing, how to use the results in your tool chest, and much more about some of the diseases. If you would like me to address something specifically, email me at president@colliehealth.org.

*All Subsidies are for Members of CHF only and their Rough & Smooth Collies that live with them. New members must wait 30 days before applying for subsidies.

**When you receive your results from the Optimal Selection™ panel, you will be given the opportunity to add on the CEA and a PRA test. The PRA test does not pertain to Collies, do not order this test!

Have you been practicing up on your long winters nap? ZZZZZZZZZ

Wake up quick, smell the mistletoe and buy the last few sets of these 2020 specialty edition holiday cards before they’re gone!
The Collie Health Foundation needs your help!

What: Looking for a Fundraising Chair  
When: Now  
Why: To help the Collie Health Foundation in our time of need  
How: Email President Robette Johns – president@colliehealth.org

Collies all over the world benefit from the accomplishments of scientists and research supported by funding generated by the Collie Health Foundation.

As the fundraising chair for the Collie Health Foundation, you will look back at the end of your career with satisfaction, knowing that your hard work resulted in many thousands of dollars that were put to good use. Money that ensured the preservation of our beloved Collie for generations to come.

Leave your mark in the world of preservation breeding.

Volunteer today!  
No experience required

Please consider volunteering if you are passionate about our beloved breed and believe in the Foundation’s Mission  
www.colliehealth.org

The fundraising chair is responsible for creating a fundraising plan to ensure the organization is fully funded for the services it provides. Most nonprofits rely on regular donations in order to provide their services to the community. Unlike for-profit corporations that sell products or services for a profit, nonprofits aim to help others without making a profit. This means that budgets are tight and money is spent wisely so that donors feel they are making a good investment.
Grant Updates!

Andrea Fiumefreddo, MS, AKC CHF Director of Programs and Operations, has provided progress reports on several AKC CHF grants the Collie Health Foundation has helped to fund:

**Grant 02165-MOU: Identification of Biomarkers and Therapeutic Targets for Canine Degenerative Myelopathy: The Search for A Cure**
Principal Investigator: Joan Coates, DVM, MS; Research Institution: University of Missouri, Columbia Progress Report: FINAL

**Original Project Description:**
Degenerative myelopathy (DM) is an adult onset disease of the spinal cord causing progressive weakness and paralysis of the hind limbs and eventually all limbs. Mutations in an enzyme that converts superoxide to water and hydrogen peroxide, superoxide dismutase 1 (SOD1), have been linked to DM and amyotrophic lateral sclerosis (ALS-Lou Gehrig's disease). DM is associated with degenerative loss of axons, which transmit signals from the brain and spinal cord to their targets (muscle). Currently no diagnostic test exists that would allow for repeated measurements with minimal invasiveness. Dr. Coates proposes developing a test that would assay the blood and cerebrospinal fluid (CSF) for proteins that are exclusively found in axons under non-disease conditions, referred to as neurofilament proteins. The investigators will correlate the concentrations of neurofilament proteins in CSF and blood with disease stage and anticipate that neurofilament protein concentration in blood and CSF will increase as disease progresses. Such a test will allow for minimally invasive monitoring of disease. Furthermore, such a diagnostic test could be used to measure the success of therapy, which may be underway in a cohort of DM-affected dogs [Boxers and Pembroke Welsh Corgis (PWC)] (funded by NIH/NINDS). This work will complement the test for neurofilament proteins with other studies that measure disease progression such as specific MRI techniques to evaluate the brain and spinal cord and electrical testing of the muscle and nerves. These are functional disease markers that are also being studied in ALS patients.

**Report to Grant Sponsor from Investigator:**
Degenerative myelopathy (DM) is an adult onset disease of the spinal cord causing progressive weakness and paralysis of the hind limbs and eventually all limbs. Mutations in an enzyme that protects the spinal cord from oxidative stress are linked to DM and amyotrophic lateral sclerosis (ALS-Lou Gehrig’s disease). DM is associated with degenerative loss of axons, which transmit signals from the brain and spinal cord to their targets (muscle). Monitoring the progression of disease is critical for development of effective therapies, but currently no diagnostic test exists that would allow for repeated measurements with minimal invasiveness. We have developed a test that would assay the blood and cerebrospinal fluid (CSF) for proteins exclusively found in axons under non-disease conditions, referred to as neurofilament proteins. Preliminary data suggest that measuring neurofilament proteins in CSF is a diagnostic marker for DM but we need to establish specificity data to distinguish between other central axonopathies. We have shown that neurofilament proteins in CSF remain elevated through all 4-disease stages but trends may show a longitudinal increase in pNF-H in individually monitored dogs affected by DM. We have measured neurofilament proteins in CSF to evaluate efficacy of an SOD1 silencing by antisense oligonucleotide (ASO) therapy approach in a cohort of DM-affected dogs.

We are complementing the test for neurofilament proteins with other studies that measure disease progression such as specific MRI techniques to evaluate the brain and spinal cord and electrical testing...
of the muscle and nerves. We continued to collect preliminary data from DM affected dogs using magnetic resonance spectroscopy and diffusion tensor imaging to evaluate for difference in metabolites in the brain. After evaluation of more DM affected and normal dogs, detectable differences in variables were observed in some areas of the brain and cervical spinal cord using diffusion tensor imaging. No detectable differences were observed on magnetic resonance spectroscopy or electrodiagnostic testing.

Six companion dogs affected by DM completed a double-blind, vehicle controlled closed trial to evaluate an ASO treatment. Dogs were treated by monthly intrathecal lumbar injections of cSOD1 ASO or aCSF and longitudinally monitored with neurologic examination, electrodiagnostic testing, MRI and CSF analysis. Companion dogs affected by DM showed continued disease progression based on gait monitoring. Nonetheless, the study is statistically under-powered to detect a clinical difference during the interim analysis. The longitudinal pNF-H assay has been completed for the ASO study dogs and did not show an effect by the ASO treatment.

**Grant 02107: Landmark Clinical Trial to Establish the Evidence-Based Use of Regenerative Medicine to Treat Tendon Injury in Dogs**
Principal Investigator: Jennifer Barrett, DVM, PhD; Research Institution: Virginia-Maryland Regional College of Veterinary Medicine
Progress Report: Mid-Year

**Original Project Description:**
This study will evaluate the effectiveness of Platelet-Rich Plasma (PRP) and stem cells in the treatment of the most common sporting injury in dogs: supraspinatus tendinopathy (similar to the rotator cuff injury in humans). Tendon injuries in dogs often progress undiagnosed and result in chronic lameness and pain. Ultimately, unassisted tendon healing results in scar formation and reduced function of the joint and surrounding muscle tissue. PRP and stem cell therapies aim to accelerate and promote healing through tissue regeneration and reduced scarring. The investigators will conduct a randomized, placebo-controlled clinical trial evaluating the effectiveness of PRP, adipose-derived, cultured stem cells (ASC) and commonly used stromal vascular fraction (SVF) cells to directly compare efficacy of intratendinous injection of ASC versus SVF, both of which are currently commercially available despite having limited scientific evidence of efficacy. The investigators hope to identify an effective treatment to supraspinatus tendon injury.

**Report to Grant Sponsor from Investigator:**
Tendon injury is common, often progresses undiagnosed, and results in reduced function, lameness and pain in both companion dogs and canine athletes. Failed healing and recurrence frequently occur because unassisted tendon healing results in scar formation with inferior mechanical properties.

Supraspinatus tendon injury of the shoulder is readily diagnosed, healing can be followed with objective measurements to evaluate efficacy, and the injury does not heal without intervention. Thus, it is an excellent tendon to study in a clinical trial. Regenerative therapies aim to accelerate and promote healing through tissue regeneration rather than scarring. There are several types of cells that promote healing, including platelets from blood and stem cells from adipose tissue. Platelets from blood can be concentrated and used as a vehicle for stem cells. Adipose tissue can either be a source of concentrated adipose stem cells (ASC) grown in a cell culture facility or can be used to prepare a mixture of various cells called the stromal vascular fraction (SVF). We propose to conduct the first randomized controlled clinical trial evaluating the effectiveness of stem cell and platelet therapy for the treatment of naturally
occurring injury in dogs. Further this will be the first study to directly compare efficacy of intratendinous injection of ASC versus SVF, both of which are currently commercially available despite having limited scientific evidence of efficacy. Demonstrating an effective treatment for supraspinatus tendon injury will have profound impact on the treatment of musculoskeletal conditions as well as other types of injuries affecting dogs.

Grant 02487: OX40 Checkpoint Molecule Targeted Antibodies for Cancer Immunotherapy in Dogs
Principal Investigator: Steven Dow, DVM PhD; Research Institution: Colorado State University, Department of Clinical Sciences
Progress Report: End-Year 2

Report to Grant Sponsor from Investigator:
Checkpoint molecules play a key role in regulating T cell immunity against cancer (T cells are one type of immune cell called lymphocytes). Clinical trials of antibody therapeutics that target checkpoint molecules such as PD-1 in human oncology (e.g., Opdiva, Keytruda) have demonstrated remarkable results in inducing tumor regressions and cures, against a variety of different cancer types. This new era of cancer immunotherapy also has tremendous potential for treatment of cancer in dogs. The investigators will begin development of a new, second-generation immunotherapy targeting the canine checkpoint molecule OX40 (CD134). Development of the first generation PD-1 antibodies for canine oncology is already underway, and the investigator's laboratory has been involved in evaluating immune responses to these antibodies. Studies in rodent models indicate that targeting the OX40 checkpoint molecule may be more effective than PD-1 for cancer immunotherapy. The investigators will use antibodies generated in their lab against the canine OX40 checkpoint molecule to investigate its role in regulating cancer immunity in dogs, as a first step in advancing OX40 antibodies to clinical trials in dogs with cancer. In this project, they will characterize canine OX40 antibodies, determine which immune cells express OX40 in dogs, determine how OX40 antibodies activate effector T cells in dogs, and how these antibodies trigger immune activation in tumor tissues to help accelerate development of OX40 checkpoint molecule targeted antibodies as next generation cancer immunotherapeutics for dogs.

Grant 02772: Identifying Early Stage Ultra-rare Mutations as Predictive Biomarkers of Lymphoma in High-risk versus Low-risk Breeds Within the Dog Aging Project
Principal Investigator: Daniel Promislow, PhD; Research Institution: University of Washington
Progress Report: Mid-Year 1
Original Project Description:
The most common type of cancer in dogs is lymphoma, with ~80,000 cases diagnosed annually in the United States. Breeds vary in their risk of lymphoma, but it is unclear why there is variation despite considerable effort to identify the genetics of cancer risk and progression in dogs. Cancer typically arises from the accumulation of non-inherited (i.e. somatic) mutations. However, variation among breeds in cancer risk could be due to breed-specific variation in the types of mutations, the rate of accumulation of mutations, or the downstream effects of mutations in healthy dogs. This study will use novel sequencing technology to test the hypothesis that breed-specific lymphoma risk is due to variation in the frequency and type of rare precancerous mutations. Normally, measuring these low-frequency mutations has been beyond the range of standard sequencing technology, which is limited to detecting mutations present in >1% of cells. The new technology applied here represents a >10,000-fold improvement in accuracy, enabling the investigators to accurately detect a precancerous mutation present at a single site at a frequency of just one out of every 10 million DNA base pairs. By determining if mutation frequency in blood of healthy high-risk and low-risk dogs can predict lymphoma risk, this work could lead to the development of novel tests for the early diagnosis and prognosis of canine lymphoma. This work has the potential to shed light on the mechanisms that underlie breed-specific variation in lymphoma risk, and in the long term, could lead to the development of novel tests for the early diagnosis and prognosis of canine lymphoma.

Report to Grant Sponsor from Investigator:
For some dog breeds, lymphoma is a major cause of mortality, while for others, lymphoma is very rare. We know which breeds are at high or low risk, but we do not yet know why breeds vary so much in the risk of lymphoma. In this study, we test the hypothesis that breeds that are at high risk of lymphoma have a higher rate at which new mutations arise in blood cells during adult life, and that it is this higher mutation rate that accounts for the increased risk of lymphoma. Our secondary hypothesis is that the rate at which these mutations accumulate will be greater in short-lived breeds than in long-lived breeds. Until recently, detecting these rare (less than one in a million) mutations has been difficult, because the error rate of detection (the noise) is much higher than one in a million. So the detection noise overwhelms the mutation signal. To overcome this problem, we take advantage of a new technology, Duplex Sequencing, which allows us to measure mutations that are found in the blood at a frequency as low as one in twenty million. In the first stage of this work, we have carried out the first-ever Duplex Sequencing analysis of white blood cells from companion dogs, focusing on eight different genes thought to be associated with blood cancer—PTEN, KRAS, TP53, POT1, EZH2, TRAF3, FBXW7, SETD2—and a control gene, RHO. We have run a small number of samples in pilot studies to establish the validity of our methods, with outstanding success. Our pilot studies have provided the first-ever evidence for Duplex Sequencing in dogs. We have also built the computational pipeline required to analyze these samples. During the coming period, we will expand our analysis to hundreds of samples from companion dogs, testing the two hypothesis that underlie this work. Analysis will be carried out in part on pre-existing samples collected from client-owned dogs in collaboration with partners at the Texas A&M University veterinary college, on samples from banked lymphatic tissue obtained from Colorado State University, and in white cells from blood obtained from client-owned dogs in the Seattle area.
Welcome to the Family!

The Collie Health Foundation Welcomes the Following New Members

Rachel Arnott                   Laura Hammack         Becky Maggart           Beverly Simmons
Kissimmee, FL                  Weston, TX            Elizabeth, CO           Adrian, MI
Michelle Barlow               Pat Hanson            Thomas & Cora Martin    Tracy Stauffer
Whitney, NB                    Prince Albert, SK     Chardon, IL             Pinedale, WY
Maureen Kuntz Bartley        Joan Harrigan          Louise Palarik           Tera Stone
Morocco, IN                    Jefferson, ME          Wauconda, IL            Austin, IL
Diane Brennan                Kelsey Harris          Stephen Palladino       Heather Tharp
Vacaville, CA                  Brownsville, OR        Groton, NY              Howard, OH
Marlon Brown                  Lotta Hedman          Ruth Pietrowski         Misty Tracy
Leesburg, GA                   Thompson Ridge, NY    Placerville, CA          Citrus Heights, CA
Deborah Crosson               Stephen Hepburn        Marilyn Power**         Genevieve Verner
West Kelowna, BC              Riverdale, UT          Conneaut Lake, PA        Val-des-Monts, QC
Bertha Garrison               Margaret Hershberger    Lisa Pyman              Paul & Heidi Westfall
Thorntown, IN                  Albany, OR              Genoa, OH               Olanta, SC
Judy Gilland                  Jacqueline Houben-Spiering Allison Rice          Jordan Wilkinson
Watertown, TN                  The Netherlands         Arthur, ON               Bulli, NSW, Australia
Suzanne Gough                 Ann Knight             Sue Rioux**             Linda Woolverton
Kansas City, MO                Minden, ON              Damascus, NB           Los Angeles, CA
Wendelyn Grasseschi           Erica Lipari            Molly Sebastian        Ryan Yaeger**
Mammoth Lakes, CA             Carmel, CA              Puslinch, ON             Freehold, NJ
Barbara Greenberg             Renee McGlone*          Duke Shipman            Gayle Yarick
Whippany, NJ                   Cicero, NY              Middlefield, OH         Holt, MI
Paige Hales                   Lori & Scott McGlynn       
Woodstock, GA

*indicates Junior Member
**indicates previous member…Welcome Back!

New Members – July 1, 2020 through October 31, 2020
Donations in Honor/Celebration/Memory/General Donations
July 1, 2020 – October 31, 2020

Donor
Chattanooga Kennel Club
Collie Club of America
Collie Club of America
Collie Club of Kentucky
Hartford-Springfield Collie Club
Network for Good
Oliver B. Merlyn Foundation
Tennessee Valley Kennel Club
Members of Breeders Education – Patt Caldwell, Barbara Cleek, Courtney Dowling, Kathleen George, Debbie Holland, Nancy McDonald, Larry Parsons, Mary Robischon, Deb Smith & Frank Trevino
Karen Anderson
Emily Berkley
Tammy & Kevin Blagg
Brenda & Dwight Caswell
Sheri Collins
John Curreri
Chris Dungan
Bobbie Fairbanks
Bobbie Fairbanks
Bobbie Fairbanks
Bobbie Fairbanks
Judith Floyd
Tracy Garstka
Richard Holbert
Marcella Hutchinson

In honor/celebration/memory of….
In Memory of David Crippen
General Fund
In Memory of CCA Members who passed away in 2020
In Memory of James and Aileen Adkins
In Memory of Tim Garrison
Anonymous FB Donations
General Fund
In Memory of David Robinson, son of Richella Veatch
In Memory of Tim Garrison – the Collie world has truly lost a gentle soul, a caring person, and somebody with wonderful knowledge who was always willing to share.
In Honor of Joan Johnson
In Honor of Julie Hinrichsen
In Memory of Artie Kaye Dunn
In Memory of Grace, Prairiepine Sunday’s Child CRNCL & Diamond, Vividus Hope’s Black Diamond
In Memory of Maverick. If possible to the study of Degenerative Myelopathy
In Memory of Artie Kaye Dunn
In Memory of Deanna Levenhagen's "Ranger," CH Rosehaevens Alpine Guardian, CDX, RAE, RM, MXB, MJB, MXF, T2B, H1Ad, HSAsMdM, H1Bd, HSbd, H1Ds, HTAD-Id, PT, HT, CGC, TDI
In Memory of Carol Chapman, who gave me my start in Collies
In Memory of Wade Burns
In Memory of Tim Garrison
In Memory of Rose McDonald, Mother of Nancy McDonaldn
In Memory of CH Camloch Prosperity CDX RE HT
In Memory of Artie Kaye Dunn
In Memory of Artie Kaye Dunn
In Memory of Mary Ann & Fred Campbell’s Comet – Sylvan Argent Windsong Shooting Star
Donor continued

In honor/celebration/memory of…continued

Robette Johns
In Honor of Gail Currie - an outstanding volunteer who lives and
breathes the Collie Health Foundation

Mary Lenertz
In Memory of Mary Mulhern

Mary Lenertz
In Memory of Peggy MacFarlane

Barbara McCampbell
In Memory of her husband Jack who loved the Collies so much

Nancy Marks
In Honor of Dr. Nancy Kelso for her wonderful contributions to the
collie breed & for her extraordinary & caring commitment as a
veterinarian.

Wendy Menefee
In Memory of David Crippen

Pati & Grant Merrill
In Memory of Tim Garrison

Pati & Grant Merrill
In Memory of David Crippen

Pati & Grant Merrill
In Memory of Carol Chapman

Kathryn & Gretchen Morrison
Donation for research in lieu of purchasing raffle tickets

Randy Patterson
In Memory of Artie Kaye Dunn

Dianne Quarg
In Memory of Dyna lovingly owned and missed by Sharon Wilder

Jean Reynolds
In Memory of David Crippen

Mary & Rose Robischon
In Memory of Tim Garrison

Mary Swierkos
In Memory of her dog Rafe of Ratharryn

Heidi Webster
In Memory of Ripley Laube, forever loved and owned by Gloria Laube

Linda Woolverton
In Memory of Cyrano, D’Artagnan, Atticus and Radley my beloved
collies

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Celebrating Our Seniors!

July 1, 2020 through October 31, 2020

CH Camloch Prosperity CDX RE HT
DOB: 6/12/2008 – 10/15/2020
Breeder: Krista and David Hansen DVM
Owner: Susan Taft Floyd VMD

Lisara’s Chester
DOB: 6/26/09
Breeder: Carmen & Larry Leonard
Owner: Judy Kirkeby

Bienville Lord of the Mist CGC, HIC, Michael
DOB: 8/14/2008
Breeder/Owner: Donna Walle

Lisara Silver Scot, RN, CGC Kilts
DOB: 6/26/09
Breeder: Carmen & Larry Leonard
Owner: Judy Kirkeby
Bienville Vibrant Spirit HIC, Duckie  
DOB: 8/14/2008  
Breeder/Owner: Donna Walle

Bienville Winsome Spirit HIC, Misty  
DOB: 8/14/2008  
Breeder/Owner: Donna Walle

CH Shalimar’s Double “L” Taylor Made  
DOB: 01/23/2006  
Breeder/Owner: Patrick Wentworth & Linda Latimer

<table>
<thead>
<tr>
<th>Collie Health Foundation</th>
<th>Statement of Financial Income and Expense</th>
<th>Accrual Basis</th>
<th>January through October 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income</strong></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000 · Direct Public Support</td>
<td>18,516.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5200 · Membership Income</td>
<td>39,825.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5300 · Investment Income</td>
<td>51,176.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5400 · Revenue from Other Sources</td>
<td>15,622.67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5401 · Income Promotion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5402 · Expense Promotion</td>
<td>-11,576.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total 5400 · Revenue from Other Sources</strong></td>
<td><strong>4,046.60</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5800 · Special Events Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5810 · CCA Income</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5820 · CCA Expenses</td>
<td>-359.00</td>
<td></td>
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<tr>
<td>5860 · Sunnybank Income</td>
<td>11,037.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5870 · Sunnybank Expenses</td>
<td>-2,774.74</td>
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<tr>
<td><strong>Total 5800 · Special Events Income</strong></td>
<td><strong>7,872.76</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6800 · Unrealized Gains and Losses</td>
<td>2,648.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>124,085.69</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gross Profit</strong></td>
<td><strong>124,085.69</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Expense**              | **TOTAL**                                |              |                             |
| 7000 · Grants & Direct Assistance | 172,625.79                              |              |                             |
| 7500 · Contract Service Exp | 10,208.99                               |              |                             |
| 8100 · Office | 1,919.90                                |              |                             |
| 8500 · Other Expense | 3,200.52                                |              |                             |
| 8600 · Business Expense | 1,500.00                                |              |                             |
| 99010 · Bank Service Charges | 25.00                                   |              |                             |
| **Total Expense** | **189,400.20**                          |              |                             |
| **Net Income** | **-65,314.51**                          |              |                             |

No CPA provides assurance on these reports.
# Collie Health Foundation

## Statement of Financial Position

**Accrual Basis**

As of October 31, 2020

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>Oct 31, 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Assets</td>
<td></td>
</tr>
<tr>
<td>Checking/Savings</td>
<td>120,859.68</td>
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<tr>
<td>Other Current Assets</td>
<td></td>
</tr>
<tr>
<td>1400 · Inventory</td>
<td>13,293.20</td>
</tr>
<tr>
<td>1500 · Investments</td>
<td>1,152,413.02</td>
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<tr>
<td>1600 · Deposits</td>
<td>300.00</td>
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<tr>
<td>Total Other Current Assets</td>
<td>1,166,006.22</td>
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<tr>
<td>Total Current Assets</td>
<td>1,286,865.90</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>1,286,865.90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES &amp; EQUITY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities</td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>10,445.12</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>10,445.12</td>
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<tr>
<td>Equity</td>
<td></td>
</tr>
<tr>
<td>3010 · Net Assets - Without</td>
<td>1,341,815.29</td>
</tr>
<tr>
<td>Net Income</td>
<td>-65,394.51</td>
</tr>
<tr>
<td>Total Equity</td>
<td>1,276,420.78</td>
</tr>
<tr>
<td>TOTAL LIABILITIES &amp; EQUITY</td>
<td>1,286,865.90</td>
</tr>
</tbody>
</table>

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# Collie Health Foundation

## DNA Subsidy By Item

**Accrual Basis**

January through October 2020

<table>
<thead>
<tr>
<th>Parts</th>
<th>Qty</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA (CEA testing)</td>
<td>10</td>
<td>500.00</td>
</tr>
<tr>
<td>DMS (DMS testing)</td>
<td>330</td>
<td>16,815.00</td>
</tr>
<tr>
<td>OFA (OFA registration)</td>
<td>39</td>
<td>1,675.00</td>
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<tr>
<td>Optimal (OS testing)</td>
<td>486</td>
<td>33,480.00</td>
</tr>
<tr>
<td>PRA (PRA testing)</td>
<td>118</td>
<td>5,900.00</td>
</tr>
<tr>
<td>Total Parts</td>
<td>983.00</td>
<td>58,370.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>983.00</td>
<td>58,370.00</td>
</tr>
</tbody>
</table>

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Mark Your Calendars

April 17th – April 24th, 2021

Pack Your Luggage &

Bathe Your Dog

We’re Going to Cheyenne, Wyoming!

2021 Collie Club of America National Specialty Show

The Collie Health Foundation will be doing business as usual!

• Silent Auctions, Promotional Items, and Day of Auctions
• Genetic Health Testing through Optimal Selection™
  DMS, PRA, and CHIC DNA Banking

Thursday April 21st Cocktail Hour with talks by Dr Leigh Anne Clark and Sydney Abrams from Clemson University followed by Dinner and a Live Auction

Look for Dr. Clark and Sydney Abrahams for firsthand talks at the National with
  Dr. Casey Knox and Sue Pearce-Kelling from Wisdom Health
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