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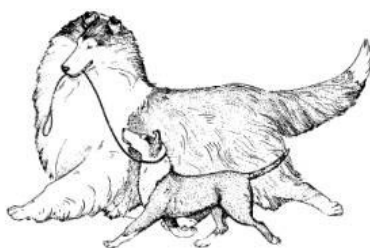
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COLLIE HEALTH FOUNDATION

"...TO FOSTER AND
PROMOTE THE STUDY
OF AND RESEARCH ON
THE...
PARTICULAR
PROBLEMS OF
COLLIES..."

From the President, Gerrie Oliver
60 Columbus Ave, Closter, NJ 07624-2455
Phone: 201-768-1282/Email: gerrieoliver@hotmail.com

At its Annual Meeting on March 29, 2012, President Nancy McDonald announced the newly elected 2012 Officers and Board Members. This dedicated team is ready to move CHF forward. Sometimes though the best way to move forward is to take a look back.

Sincere thanks to Nancy McDonald for her dedication to CHF and the remarkable accomplishments over the past four years; to Secretary, Hildy Morgan, who stepped into a vacant position and did a remarkable job of keeping CHF running; to Treasurer, Laura LaBounty, who offered her expertise at a time CHF needed help. Laura did an amazing job of managing the books, all the while she was still sorting out auction items for the National.

Speaking of auctions, a big thank you goes to all the hard-working volunteers at the silent auction tables at the National: Pati Merrill, Janie Clymer, Sue DeLorenzo, Yvonne Evans-Wynn, Erin & Ken Blaisure, Ann Boles, Krista Hansen, Rayleen Hendrix, Lynn Myers, Pat Jung, Robette Johns, Nancy Van Note, Michelle Brane, Bob Kelly, Nancy Kelso and her daughter Joanie, and Laura LaBounty. And yet another thank-you to Laura for the fantastic night auction. She not only collected, stored and hauled all those great items to PA but organized the dinner (with ticket sales help from Krista Hansen & Nancy Van Note), displayed the treasures, and then counted up all the money, too. Finally thanks to our expert and very funny auctioneer, Bob Kelly, our eagle-eye spotters, Bill Broken and David Hansen, and our "Vanna's", Sue Floyd and Babbie Dilbeck.

Here is an accounting of our National success:

- Day Auctions \$4,727
- Night Auction \$10,605
- Catalogs \$68
- Promotions \$6,206*
- Sunnybank Promos \$285

*A tip of the hat also goes to past Promos Team Brenda Walker and Pat Rosenbaum for a great job over the last four years.

And, now in moving forward, I'm pleased to announce:

- **New & Improved CHF Website will be launched shortly!**
- **Subsidized Genetic Testing will continue through 2012!**
- **CHF Promotions will be back in business soon!**
- **Generous \$1,200 donation to CHF from the Friends of Marcia Keller!**
- **New Corporators Class of 2016!**

Class of 2016:

Phyllis Autry, Cindi Bossart, DVM, Barbara Cleek, Susan DeLorenzo, Babbi Dilbeck, DVM, Roz Durham, Deborah Falk, Chandra Flaim, Sue Floyd, DVM, Bob Futh, Sally Futh, Laurie Jeff Greer, Jan Hedrick, Janet Hitt, Tom Hoadley, Debbie Holland, Mary Hunter, Robette Johns, Pat Jung, Bob Kelly, Carmen Leonard, Nancy McDonald, Grant Merrill, Pati Merrill, Lori Montero, Lynn Myers, Nancy Van Note, Ginny White, Candy Wisnieski

Class of 2014:

Ann Boles, Jim Boles, Michelle Brane, William K. Brokken, MD, Jane Clymer, Yvonne Evans-Wynn, David Hansen, DVM, Krista Hansen, Leslie Jezewski, Helga Kane, Gayle Kaye, Nancy Kelso, DVM, Linda Latimer, Norman, Markese, Hildy Morgan, Gerrie Oliver

I want to extend a warm welcome to new Promotions Chairperson, Jan Hedrick! Jan has some exciting new Collie Health Foundation merchandise to offer as well as our ever-popular brushes. Watch for "Promotions" on the new and improved website coming soon.

I find it interesting that "Spell Check" constantly highlights "Corporators" and offers "cooperators" instead. Cooperators is defined as "those that work together and do what is asked or required". What a perfect description for this dedicated group!

I value the trust you have placed in me as President and look forward to relying on the collective years of expertise and experience of CHF's Officers, Board Members and Corporators to continue leading CHF forward.

-Gerrie

NEW VACCINE AVAILABLE FOR BONE CANCER

Osteosarcoma (bone cancer) is most commonly seen in large and giant breed dogs. It is an aggressive cancer that frequently affects the long bones and despite limb amputation and chemotherapy many dogs die from the cancer that spreads to their lungs.

Researchers at the University of Pennsylvania's School of Veterinary Medicine are now evaluating a new vaccine for dogs that have been diagnosed with osteosarcoma. If your dog has recently been diagnosed with bone cancer or is currently undergoing chemotherapy for bone cancer he/she may be eligible for vaccination.

Details of the study including the benefits of enrollment are available at:

<http://www.vet.upenn.edu/Research/BasicandClinicalResearch/CanineCancerStudies/BoneCancerStudy/tabid/2392/Default.aspx>

Alternatively you can contact the Principal Investigator of the study Dr. Nicola Mason BVetMed PhD DACVIM directly at:

nmason@vet.upenn.edu or by telephone at: 215-898-3996.

REFLECTIONS

A LOOK BACK AT THE PAST FIFTEEN YEARS
The 16th Annual Gathering at Sunnybank, 2012
 381 Terhune Drive, Wayne, NJ 07470

SATURDAY, AUGUST 18th

9:00 am & 9:30 am

Sunnybank Walking Tours

Guides: Marilyn Horowitz & Kathy George
 Judy Leathers & Donna McKoy

Special Musical Ensemble
 Susan Chandler, Keyboard

10:30am – What Was Your Favorite Gathering?

Judy Leathers – Terhune Sunnybank Memorial News
 Marilyn Horowitz – APT Stamp Status
 Kristina Marshall – Gathering Trivia Contest
 Open Mike for Everyone!

10:00a to 2:00p - Microchip Clinic @ Gazebo - \$25

*AKC CAR Including lifetime enrollment; no annual fees
 24/7 support by dedicated recovery experts - Collar ID tags*

1:00pm – Canine Good Citizen Test - \$15

1:00pm Bright & Beautiful Therapy Dog Test - \$25

Joanne Silver, Evaluator

Entries Limited to 15 Dogs – Pre-registration Required

Call Sue Chandler 973-696-2506 or greyskies110@optonline.net
 CGC Dogs must be 6 months old; Therapy Dogs must be 1 year

2:00p – BLOAT – Things Everyone Should Know!

Cindy Bossart, DVM

- What is it?
- How does it happen?
- What do I do?
- Can it be prevented?
- What does that surgery do?
- Collies Count on YOU!!!

**Important
 For
 Everyone**

3:00p Toni Bailey with famous collies James & Prosper

In Freestyle Dancing Demo

(Hold onto your dollars, folks, for “buckets” of fun!!!!)

6:30p – Tribute to Right Stuff Award Winner

CLAIRE LEISHMAN & trip “Down Memory Lane”

Portobello’s, 155 Ramapo Valley Road, Oakland

\$35 - Advance Reservations ONLY (Before August 10th) or \$45 after
 Send Your Check to Gerrie - Payable “CHF”

SUNDAY, AUGUST 19th

9:00 am

Collie Memorial & Bagpiper at Sunnybank

Complete order form below and mail together
 with your check for \$4 payable to “CHF” before August 1st
 FMI: Sue at 201-391-9826 or susiezo@aol.com

BEST DESSERT CONTEST

An Old Favorite Is Back!

**Bring your favorite dessert & recipe for judging.
 Winner gets published in CE!!!**

10:00 am - Virtues Match

* PROFILE * SKULL * MUZZLE * EXPRESSION *
 * OUTLINE * FRONT * REAR * SIDE GAIT *

Moderated by Royal Rock’s Leslie Canavan

**Judges: Nancy McDonald, Barksdale
 Connie DuBois, Sylvan
 and Surprise Guest Judge!**

1:00 pm – The Gathering

Juniors’ Match

Judge: John Buddie, Tartanside

Lad of Sunnybank Memorial Match

(Immediately following Juniors)

“Lad of Sunnybank” Trophy offered for Best in Match
 SANDY DRAPER MEMORIAL TROPHY

Judges:

Dogs: John Buddie, Tartanside

Bitches: Cindi Bossart, Argent

Event Prices:

Match Shows: \$5/Virtue or \$12/3

Juniors & Lad Match Entry: \$5

Microchip \$25

Dessert Contest - FREE

CGC - \$15 TDI - \$25

**Wear your favorite t-shirt & bring your favorite story
 from past Gatherings!**

BREAKFAST & LUNCH AVAILABLE

SATURDAY & SUNDAY

Courtesy of Boles’ Bistro & CCNNJ

Holiday Inn Express, 303 Union Ave., Haskell, NJ 07420

Call **DIRECT** 973-839-4405 & ask for “The Gathering at Sunnybank” block before 7/29/12 for great rate of \$85; \$20 pet fee

6/24 BULLETIN: Block sold out! Try again after 8/1 or call LaQuinta, 1850 Rt. 23 & Ratzer Rd., Wayne, NJ 973-696-8050

FMI: Gerrie Oliver, 60 Columbus Avenue, Closter, NJ 07624 - (201) 768-1282 - gerrieoliver@hotmail.com

or Nancy McDonald, 2834 Cotten Road, Sanford, NC 27330-6994 - (919) 718-9347 - nancy@collieexpressions.com

**T-SHIRTS, PREMIUMS & SILENT AUCTIONS
 PAYMENTS WITH “SUNNY MONEY”
 *SORRY, NO VENDORS ALLOWED***

All Proceeds to Collie Health Foundation
 Updates at CHF Website www.colliehealth.org,
 Collie Expressions and colliesonline.com

VISIT THE VAN RIPER-HOPPER HOUSE
 533 Berdan Avenue, Wayne, NJ 07470
 973-694-7192

President's Trophy

The CHF President's Award is given annually to a member who has delivered outstanding service to the Collie via the Health Foundation. The names on the plaques are a who's who of Foundation contributors and the award can only be won once in a lifetime. At the 2012 annual dinner and auction, the award was presented to Dr. Nancy Kelso. Dr. Kelso assumed chairmanship of the Grants Committee in 2009 and since then has been instrumental in soliciting excellent research projects leading to advancements in bloat surgery, female incontinence, dermatomyositis and DNA genome mapping. These projects are valued in excess of \$170,000. In addition, she was instrumental in negotiating the CHF's pledge of \$100,000 to the Morris Animal Foundation to fund additional research in the future. Dr. Kelso's contributions continue as she tirelessly searches for quality research for CHF donations. Please join me in congratulating and thanking Dr. Kelso for her continued excellent service to the Collie!

See below for a history of the award and its recipients over the years.

1987 Dana Rodman
1988 Collie Club of America
1989 John Honig
1990 Cindy Alvarado
1991 Helen Denton
1992 Nancy Simmons Morales
1993 Hilda Rickenbaugh
1994 Helga Kane
1995 Heidi Mendez
1996 Pati Merrill
1997 Nancy McDonald
1998 Gayle Kaye
1999 Krista Hansen
2000 Peggy Darington
2001 Cindi Bossart
2002 Steve & Robette Johns
2003 Lori Montero
2004 CC Northern NJ & Sunnybank Committee
2005 Laura LaBounty
2006 Jeanne Marre
2007 Norman Markese
2008 Nancy Van Note
2009 Brenda Walker & Pat Rosenbaum
2010 Barbara Cleek
2011 Nancy Kelso, DVM





**The Collie Health Foundation
Welcomes the Following New Members**

Kirt Adams
Nesquehoning, PA

Beth Bloom
Oak Grove, MO

Amy Buboltz
Shelby, IA

Jerrica Coady-Farrell
Dartmouth, Novia Scotia, Canada

Jane Edel
Erie, PA

Josh Harbin
Louisville, TN

Debra Jones
Fort Worth, TX

Holly L. Koosuth, DVM
Follansbee, WV

Jazherah MacMornna
San Francisco, CA

Beth Nemoff
Oak Park, MI

Deanne & Robert Olson
Glen Ellyn, IL

Levon Putz & Tammie Jacobs
Grove City, OH

Stephanie Scalf
Longview, TX

Bradford Stone
Darnestown, MD

Richella Veatch
Crossville, TN

Trish Wamsat
San Martin, CA

Marilyn Bauer
Sterling, IL

William & Corinne Boerth
Chesterfield, NJ

Tasha Byerly
Brooksville, FL

Thomas Coleman
East Northport, NY

Kornelia Geldrich
Rossland, BC, Canada

Nancy J. Harding
Troy, NJ

Susan Joslin
Olathe, KS

Daria Lacy
Skamokawa, WA

Theresa Marquardt
Shelton, WA

Stephanie Noelle
Germany

Terry Peters
Olney, MD

Shirley Ann Rensink
Stockholm, WI

Carole Stanley
Holly, MI

Cheryl, Ken, Jerry & Cody Sulewski
De Pere, WI

Diane Vinci
Saugerties, NY

Carol Wells
Pine Plains, NY

Judy Bianchi
Thorndale, PA

Carl Bottomley
Aiken, SC

Keri Campbell
Maple Ridge, BC, Canada

Kevin Covi
Glenford, NY

Deborah & Courtney Gripper
Marylyn Cavanaugh
Milledgeville, GA

Sue Ito
Bellingham, MA

Susan Kaelin
Taylorsville, KY

Joy Levitt
Wayne, NJ

Lidija Mere
Kelowna, BC, Canada

Sherry O'Brien-Stevens
Biblehill, Nova Scotia, Canada

Annie Provenzano
Hopewell, NJ

Jeffrey Roecker
Gresham, OR

Diane Steele
Scottsville, KY

Diane & Art Vance
New Bern, NC

Christine P. Vrooman
Cleveland, OH

Janna Wilkins
Sophia, NC



Donations in Honor/Celebration/Memory General Donations February 1, 2012 – May 31, 2012

Donor

Deanne Balutis
Dr. & Mrs. Bala Chandrasekhar

Pamela Cockrell
Thomas Coleman

Collie Club of Northeastern NY
Judi Falvo
Jane Howells
Christine A. Johnson
Karin L. Johnson-Page
Susan Joslin
Ronald L. Keller

Darlene Kerr

Elizabeth & Thomas Kubiak
Laura M. LaCongo
Joy Levitt
Ricardo Lopez

Lisa A. Mahoney
Kathryn S. McAlevy
Gerrie D. Oliver

Patricia L. Pisula
Mona Ragan
John A. & Maria L. Russell
Carol A. & Donato T. Soranno
Southern California Collie Club
Bradford W. Stone
Terhune Sunnybank Memorial
Judy Virchow
Sharon Wilder
Susan T. Williams

In honor/celebration/memory of....

In memory of my beloved collies..Duncan & Quincy
In memory of our first smoothie, Bacchus, who only lived 8 3/4 yrs. before succumbing to nasal cancer complications. Smartest dog we ever knew and we miss him so much. Breeders, please breed for healthy collies as our boy also had a genetic eye and MDR1 issues. We need to take care of these wonderful dogs!
In memory of Carolyn E.F. Green
In memory of Tartanside Code of Honor (Cody). He was exceptional in every way and was the most loyal, loving, affectionate and beautiful collie I ever welcomed into my life. His service to the sick and infirmed made him an angel of mercy who has returned to heaven.
Thank you for doing what you do!
In loving memory of Merit beloved collie of Deanne Balutis.
In memory of our much loved smooth "Stanley" (Dakotah Dan Patch)
In loving memory of Merit beloved collie of Deanne Balutis
Matching Gift from Waters Corp. (Employer)
In memory of Bettie Crawford
In Memory of Marcia Keller from the friends who donated to her CCofA Challenge Trophy
Wendy Jackson of FreeHeelen Collies, Ontario, Canada. Her love for this breed shone through, not only in the way she cared for her own dogs but in the beautiful paintings she did for others of their dogs. Wendy you are deeply missed!
On behalf of a very special breed
Donation from sale of Bada-Bing Shampoo
In loving memory of Aunt Florie
In memory of Row-Bar's Branestorm Challenge 'Er (Claire!) I am sure she brought many years of happiness, and many more years to come of happy memories.
In honor of BIS AM/CAN CH Kings Valley Angelica "Moxy"
In Memory of Alastair T. Crawford
In Loving Memory of Maggie Otto, who loved all dogs, especially her Boris.
In Loving Memory of Charles Zulli, who loved his Sadie.
In memory of Baloo Merrill
In Memory of Whitney Sherr
In Memory of Scooby Rodriguez
In Memory of Garth & BJ & Tricia & beautiful Morgan
In memory of Shadow Nesbitt
In memory of Lois Lippencott
In memory of "Luke"....Harrow N Aamars Fire Ranger
CH Tangos G.I. Jane ROM
General Donation
In loving memory of our long-time friend Roz Tolliver of Stirling Collies
To support all collies
In honor of Claire Leishman's 90th Birthday from Judy & Dale Leathers
In memory of CH Provenhill's Milestone
In memory of Ember
In memory of Chris Downs

Discounted PRA Testing with \$50 Rebate!

Progressive Retinal Atrophy is still around..... If you think it isn't, think again!! Thanks to modern technology we have the ability to eliminate this problem from the Collie breed!!

THE COLLIE HEALTH FOUNDATION in association with OPTIGEN is proud to present....Discounted PRA testing until December 31, 2012!

This PRA test (rod-cone dysplasia type 2 <rcd2>) is currently available through OPTIGEN .The normal price for this test is \$180 per dog. For this special Collie Health Foundation event, Optigen is generously offering a 25% (\$45) discount per test. In order to receive the Optigen discount, please use the special code "CHF12REF" when applying for the test.

As a further incentive, the Collie Health Foundation will offer - to Collie Health Foundation members only - an additional \$50 refund per test (up to 5 dogs per household). Thus making the test..... \$85!! That is a savings of \$95 per test, per dog! Simply submit your paid receipt to the CHF treasurer, Nancy McDonald.

Please see the OPTIGEN web page for information on the test: http://www.optigen.com/opt9_rcd2testpage.html

Also please note: this test can be done using a blood sample obtained by your veterinarian, a cheek swab or a semen sample.

OPTIGEN does not provide the cheek swabs for PRA DNA testing. Swabs can be bought (in a box of 100) for a reasonable price at www.amazon.com. Search for “dukal cotton tipped applicators.” Regardless of how you procure them, all Cheek Swabs used for OptiGen testing MUST:

- Be **STERILE** – Cotton, polyester, or foam tipped applicators.
- Be individually wrapped or have 2 sterile swabs per package and the package must be intact and unopened.
- Have a wooden or plastic handle that is at least 6 inches long. There are shorter (3 inch) swabs that are NOT acceptable. (Q-Tips are NOT acceptable.)

If there are any questions, please contact Gayle Kaye Chelscolly@aol.com



Discounted Renal Dysplasia Test with \$39 Rebate!

Please join us in the fight to reduce the incidence of Canine Renal Dysplasia in our breed. From now through 12/31/12 DOGenes has made discounted test kits available for CHF members. **Go to their website, click ordering (international); you will find discounted kits available for \$99 each (\$90 each if six or more are ordered). Regular price is \$135. CHF will reimburse an additional \$39 per test (for up to 5 tests per household), making Renal Dysplasia tests only \$60!!** Simply submit your paid receipt to the CHF treasurer, Nancy McDonald. Go to www.dogenes.com to read about this inherited disease.

Grants Committee Update

Nancy Kelso, DVM, Chair

Many thanks to Dave Hansen and Gayle Kaye for their long service to the committee and to Anne Boles for her service as secretary. We welcome Carmen Leonard.

1. See the Clemson Mapping genome and Dermatomyositis update, also looking at genes that predispose dogs to autoimmune disease, on page 12 of the newsletter.
2. As of this March, Dogenes reported 89 collies have been tested for Renal Dysplasia:

Clear - 30
Carrier - 32
Homozygous mutant - 27
3. Vetgen is continuing their search for the von Willebrands Disease gene in collies. Any collie with unexpected bleeding should call for free participation in this genetic study.
4. Oregon State Veterinary College continues their study in canine urinary incontinence, collies are given preference. The research is titled Efficacy of GnRH vaccination on canine (female) urinary incontinence. Interested participants contact:

Drs Timothy M. Hazzard and Dr Michelle Kutzler
Assistant Professor Sr. Research
Department of Animal Sciences
315 Withycombe Hall
Corvallis, Oregon 97331

ph: 541 737-1920
fax 541 737-4174

5. Dogenes continues their genetic study on stress and gastric dilatation-volvulus. Anyone with a collie affected with bloat should contact Dogenes.
6. The following grants we supported with AKC Canine Health Foundation this spring:

01262 - Sequencing and functional analysis of the canine Y chromosome
01615 - Identification of idiopathic epilepsy genes in Australian shepherds
01672a - Isolation and characterization of tumor initiating cells in Canine Osteosarcoma cell lines
01678a - Apoptosis-not just nucleated cells: the contribution of programmed cell death to red cell destruction in Immune mediated Hemolytic anemia
01684a - Plasma cortisol concentrations in dogs with pituitary dependent hyperadrenalcorticism and atypical cushing syndrome



Oregon State University: Research Progress Report

GnRH immunization for the treatment of urinary incontinence in spayed bitches

Michelle Kutzler, Jana Gordon, Caitlin Donovan

June 2012

Research Summary

Urinary incontinence is a problem affecting up to 20% of spayed female dogs with potentially serious implications for both the owner and the pet. The most popular treatment for urinary incontinence is daily oral administration of phenylpropanolamine (PPA) to stimulate the constriction of urethral sphincter muscles. However, this drug is a non-specific adrenergic agonist, which means it stimulates constriction of other muscles throughout the body as well. Because of this, PPA has been banned for human use due to an increased risk of hemorrhagic stroke as a result of constricted blood vessels. Although incidences of stroke have not been reported in dogs, adverse affects that have been reported include hypertension, weight loss, vomiting, proteinuria, anxiety, and restlessness. Furthermore, potential health risks of using PPA over the dog's lifetime are unclear and haven't been studied biochemically for periods longer than 6 months.

Because incidences of incontinence are so high in spayed dogs as opposed to intact females, it has been postulated that the reason for incontinence is a direct result of the spaying procedure. In the intact female, ovarian secretion of estrogen and progesterone control the release of gonadotropin releasing hormone (GnRH), luteinizing hormone (LH), and follicle stimulating hormone (FSH). However, when a dog is spayed and the ovaries are removed, there is no ovarian hormone secretion to control GnRH, LH, and FSH. Therefore, these hormones remain elevated for the duration of the dog's life. LH and FSH receptors have been identified in the dog urinary tract, indicating a relationship between the two, and the key to treating urinary incontinence in a safer, easier way may be by decreasing the concentrations of these hormones.

Because other studies have shown success in treating urinary incontinence with GnRH analogues that are not widely available, we are vaccinating dogs in this study with Canine Gonadotropin Releasing Factor Immunotherapeutic[®], a product of Pfizer Animal Health. It is a commercially-produced vaccine labeled for the treatment of enlarged prostate in intact male dogs. It elicits antibodies against GnRH, effectively decreasing LH and FSH concentrations, and therefore, it may be an effective treatment for urinary incontinence as well. We expect:

Hypothesis 1: Immunization against GnRH safely induces a humoral response for up to 6 months, which is followed by decreased LH concentrations in spayed female dogs.

Hypothesis 2: GnRH immunization is effective in reducing the symptoms of urinary incontinence in spayed female dogs for up to 6 months.

To test our hypotheses, our objectives are:

Objective 1: To measure serum GnRH antibody titers and LH concentrations every 2-4 weeks in spayed female dogs following immunization with Canine Gonadotropin Releasing Factor Immunotherapeutic[®] (Pfizer Animal Health) vaccine or control treatment with PPA.

Objective 2: To measure the efficacy of each treatment (vaccine versus PPA), using owner surveys, in restoring continence to incontinent, spayed bitches.

Giving owners a safer, easier, and more cost-effective alternative to PPA for the treatment of urinary incontinence would be a huge benefit to the owner and the dog, and the development of an alternative incontinence treatment would be a significant contribution to the veterinary field to improve patient care.

Progress to Date

- The GnRH antibody ELISA, used to measure an antibody titer in response to the vaccine, has been modified and validated for use in canines
- A first visit survey has been developed for all enrolled dogs (Appendix 1)
- A daily log for owners to keep throughout the study has been developed (Appendix 2)
- The study has been advertised to veterinarians and potential patients via a presentation (Appendix 3) and a brochure (Appendix 4)
- LH assays have been purchased and validated for use in canines
- Canine samples are currently being collected by the supervising veterinarian at Oregon State’s small animal hospital. To date, nine privately-owned dogs are enrolled (Table 1)
- 3 vaccinated dogs have received their boosters and have been pulled off PPA (Table 2)

ANIMAL	AGE	1st VAX	2nd VAX
Kassie	5 years	3/27/12	5/1/12
Lilly	3 years	3/28/12	4/24/12
Gloria	11 years	CTRL	CTRL
Bonnie	9 years	5/11/12	6/8/12
Ruby	5 years	6/5/12	7/5/12
Treble	6 years	CTRL	CTRL
Tawny	7 years	CTRL	CTRL
Tess	9 years	6/22/12	
Koda	6 years	6/22/12	

Table 1: Signalment of currently enrolled dogs with vaccination dates

ANIMAL	DATE PROIN DISCONTINUED	STILL CONTINENT?
Kassie	5/2/12	No – incontinent one week after PPA was discontinued
Lilly	4/25/12	Yes
Bonnie	6/21/12	Yes

Table 2: Status of vaccinated dogs that have been pulled off PPA

Changes Made

Personnel changes have been made since the original proposal. Dr. Jana Gordon is now the supervising veterinarian at Oregon State’s College of Veterinary Medicine, and Caitlin Donovan, a graduate student, will now be the investigator performing the assays instead of Dr. Timothy Hazzard.

Another study performed in our laboratory, GnRH immunization as an immunocontraceptive in intact male dogs, demonstrated that appointments at 0, 4, 8, 16, and 24 weeks was not a sufficient amount of sampling to accurately determine peak GnRH antibody titers and follow the decline. Therefore, we have increased the frequency of appointments to weeks 0, 4, 6, 8, 10, 12, 16, 20, and 24.

To eliminate variability in the dogs enrolled in the study, we made it a requirement that all eligible dogs must be currently controlled using PPA for at least 6 months prior to the start of the study. Originally, we discontinued PPA administration in vaccinated dogs the day after they received the booster. However, one dog out of the two that followed this procedure became incontinent quickly after the booster was administered. This could have been because not enough time was given after booster administration for a sufficient antibody titer to develop. Therefore, we have changed the experimental design to state that PPA be discontinued 2 weeks after booster administration, a sufficient amount of time for a strong titer to develop.

The Institutional Animal Care and Use Committee at Oregon State University required the animals used in the study to come to the College of Veterinary Medicine for all sample collections. This plus the increased number of appointments increased the cost per dog to approximately \$600.00 per dog (Appendix 5) for all veterinary visits and dispensed PPA. As a result, the sample size was reduced from 10 dogs per group to 10 vaccinated dogs and 5 controls.

Timeline for Project Completion

- Present – September 2012: Finish recruiting patients for the study
- August 2012 – February 2013: Complete sample collections, perform GnRH antibody assays as the dogs complete the study
- February 2013: Perform LH assay
- February 2013 – April 2013: Manuscript writing

Study Successes

Participating owners are all very excited about the prospect for an alternative treatment for incontinence. Owners have expressed unhappiness with their dog being on PPA for the following reasons:

1. Having to administer PPA so frequently
2. Cost of buying PPA
3. Concern about possible side effects of PPA/noticing side effects from PPA they're not happy with
4. Concern about keeping their dog on PPA for the dog's lifetime

Being able to discuss with owners their concerns has truly outlined the need for an alternative treatment for urinary incontinence that is safer, easier, and more cost-effective.

To date, three vaccinated dogs have been pulled off PPA. Although one dog became incontinent again and one dog has only been off PPA for a short period at the time of writing, the third dog has been continent for 8 weeks since PPA was discontinued. The owner is thrilled with the results and this is indicative that the vaccine can be successful as a treatment for incontinence. We look forward to the results as more vaccinated dogs are pulled off PPA.



Progress Report: Collie whole-genome sequence and genome-wide association studies

Date: 03/20/12

PI: Leigh Anne Clark, Ph.D., Department of Genetics and Biochemistry, Clemson University, Clemson, SC 29634-0318
864-656-4696 (phone); 864-656-6879 (fax); lclark4@clemson.edu

Start date: 11/23/10

Summary Statement

The aims of this grant are to (1) generate whole-genome sequences from dermatomyositis-affected and healthy collies, (2) conduct a genome-wide association study (GWAS) to find genomic regions associated with dermatomyositis (DM), and (3) set-up a database of all findings for the Collie Health Foundation.

Results

To date, we have collected blood specimens and histopathology reports from 18 purebred collies diagnosed with DM. Whenever possible, pedigree information was obtained. We have also collected blood samples and pedigree information from 9 healthy, senior collies.

In order to identify the most diverse collies for whole-genome sequencing, pedigrees were analyzed to determine relationships. Five genetically diverse American collies were selected for use in aim 1. Three collies were DM-affected and two were DM-clear. Amongst the two healthy collies, the closest shared ancestor was four generations back. No common ancestors are shared between the healthy and DM-affected collies in the first six generations. Among the dogs selected for sequencing were males and females, roughs and smooths, and sables and blue merles. DNA samples were sent to the University of Missouri DNA Core Facility for sequencing, as requested by the Collie Health Foundation. Each collie's genome will be generated separately, rather than pooled with other dogs. Pooling is a cost-effective strategy for the generation of large amounts of data, but sequencing costs have declined and genomic data from individuals will be more informative for future studies. We expect to receive the sequencing data in the next two months, at which time we will begin annotation.

SNP arrays for aim 2 will be ordered this spring. For this work, we are still seeking samples from 7 DM-affected collies and 16 healthy controls. Our efforts to recruit collies continue through advertisements on the internet, collie breeders and rescues, and veterinary clinics. For participation, DM-affected collies are required to have a confirmed diagnosis based on histopathology. DM-clear collies must be advanced in age, have no history of dermatologic conditions, and no relatives known to have DM.

Because DM is thought to be autoimmune in nature, we have generated preliminary data to evaluate diversity at genes important for immune function in dogs. *DRB1* is a highly diverse member of the dog leukocyte antigen, a group of genes important in autoimmunity. Alleles of *DRB1* are associated with several canine autoimmune diseases, including lymphocytic thyroiditis, diabetes mellitus, and chronic superficial keratitis. Each dog receives two copies of the *DRB1* gene, one from its dam and the other from its sire. Although not a part of this proposal, we genotyped 12 American and 5 international collies to determine alleles for *DRB1*, the results are shown in table 1. We found that all 12 American collies, despite having diverse pedigrees, were homozygous (i.e., two copies of the same allele). Three international collies were heterozygous, having two different *DRB1* alleles. Although preliminary, these results indicate that there is little, if any, diversity at *DRB1* in American collies.

Dog No.	Origin†	Allele1	Allele2
1	AZ, US	*00201	*00201
2	CA, US	*00201	*00201
3	CA, US	*00201	*00201
4	CA, US	*00201	*00201
5	MN, US	*00201	*00201
6	NC, US	*00201	*00201
7	NE, US	*00201	*00201
8	OH, US	*00201	*00201
9	TX, US	*00201	*00201
10	TX, US	*00201	*00201
11	TX, US	*00201	*00201
12	VA, US	*00201	*00201
13	China	*00201	*01501
14	Denmark	*00201	*01501
15	Finland	*00201	*00201
16	Italy	*00201	*01501
17	Netherlands	*00201	*00201

†Location of sample collection.

Table 1. Observed genotypes for *DRB1* in selected collies. *DRB1* alleles are shown for 12 American collies, including the 5 submitted for whole-genome sequencing, and 5 international collies. All 12 American collies are homozygous for allele *00201. Allelic diversity is only observed in collies from China, Denmark, and Italy.

Planning a Seminar? Need help funding a speaker on health issues?

The Collie Health Foundation has established an Education Resource Committee to solicit and screen grant requests from member clubs who wish to receive financial assistance from the Foundation in offering health related seminars and educational events. Interested member clubs should contact:

**Carmen Leonard
4723 Smith Grove Road
Scottsville, KY 42164
Phone: (270) 622-8327**



Membership 2012

Looking for your name?? If it's not on this list...your dues are past due.

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Deceased

Carolyn M. Berger Adele C. Gay Vivienne Richards



Treasurer's Report
Nancy McDonald, Treasurer

I'm delighted to announce the CHF has achieved a new milestone - with a generous donation from liquidation of a Charitable Remainder Trust, our total assets now exceed \$750,000!

The DNA rebate program through May has issued rebates in the amount of \$838 for 4 JRD and 14 PRA tests. We also paid \$300 in 2011 for 10 JRD tests. In June to date, we've paid out another \$850, all for PRA for a grand total of \$1,988. Publicity is making a difference!

Collie Health Foundation
Balance Sheet
As of May 31, 2012

ASSETS

Current Assets

Checking/Savings		
Bank Of America Operating	\$15,970.69	
Bank Of America Money Market	\$196,821.81	
Paypal	\$27,299.47	
Wachovia - Hilda Rickenbaugh	\$12,863.65	
Total Checking/Savings	\$252,955.62	

Other Current Assets

UBS assets		
UBS Money Market	\$160,179.95	
UBS accts	\$340,953.78	
UBS assets – Other	-\$150.00	
Total Other Current Assets	\$500,983.73	

Total Current Assets	\$753,939.35
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Other Assets

Promo Items Inventory	\$3,644.26	
Prepaid Expenses	\$531.05	
Veteran medallions	\$2,100.00	
Total Other Assets	\$6,275.31	

Total Other Assets	\$6,275.31
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TOTAL ASSETS	\$760,214.66
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LIABILITIES & EQUITY

Equity

Opening Balance Equity	\$600,783.81	
Unrestricted Net Assets	\$76,600.16	
Net Income	\$82,830.69	
Total Equity	\$760,214.66	

Total Equity	\$760,214.66
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TOTAL LIABILITIES & EQUITY	\$760,214.66
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**COLLIE HEALTH FOUNDATION
MEMBERSHIP REMITTANCE AND CONTRIBUTION FORM**

PLEASE INDICATE: new member OR renewal membership

Please check level of membership desired:

I'm interested in volunteering:

Individual Membership - \$ 25
 Family Membership - \$ 40
 Sustaining Membership - \$ 100
 Patron - \$ 500
 Benefactor - \$1,000

Promotions Sunnybank
 Auctions Newsletter
 Other: _____

Send your check (US funds only), payable to Collie Health Foundation or CHF to:

Nancy Van Note - CHF Membership
827 Bowman Road
Jackson, NJ 08527-3553

PAYPAL: membership@colliehealth.org

Name (as you wish to be listed): _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Kennel Name: _____

Email: _____

Please check if this is a new address.

I have included CHF in my will.

Please send me information about including CHF in my will.

Do you or your spouse work for a matching gift company? Some companies will match gifts of employees and/or retirees. Please contact your personnel office for details and a matching gift form.

Company Name: _____

Form Enclosed: Yes No

ADDITIONAL CONTRIBUTION (circle one): in Memory, Celebration, Honoring:

Contributions are tax deductible in accordance with IRS regulations.