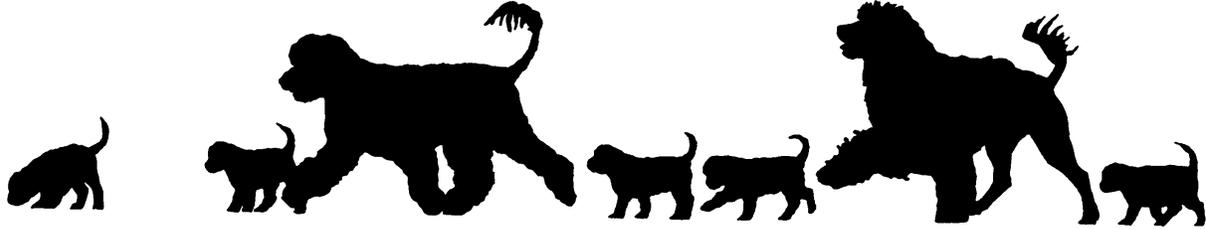


# PORTUGUESE WATER DOG FOUNDATION, INC.



## 2009 SPRING UPDATE

### 2 NEW PROJECTS CO-SPONSORED WITH MAF

#### D07CA-085 Pooled Association Mapping for Canine Hereditary Disorders

Dr. Gregory M. Acland, BVSc

Cornell University

More than 450 canine genetic traits are listed on the Online Mendelian Inheritance in Animals list. These traits affect all body systems in dogs and can cause health problems ranging from mild disease susceptibility to severe illness and death. Researchers will use a genetic tool called the Affymetrix Canine SNP Chip to develop a mapping strategy using pooled DNA samples that will map genes for hereditary canine disorders. This method promises to be 10 times more efficient and cost effective than current methods for analyzing canine inherited traits. Once this method is validated, it will be used to map a series of hereditary retinal disorders affecting multiple breeds.

Meet the Investigator: Dr. Acland is a professor of medical genetics at Cornell University and an adjunct professor of ophthalmology at the University of Pennsylvania. He received his veterinary degree from the University and completed a residency and postdoctoral work at the University of Pennsylvania.

**Please Note: There is a small update to this project on at the bottom of page 3**

#### D08CA-402 Genetic Analysis of Hypoadrenocorticism (Addison's) in Nova Scotia Duck Tolling Retrievers

**NOTE: Even though this is in a different breed, any good results will help us greatly.**

Dr. Angela M. Hughes, DVM & Dr. Anita M. Oberbauer, PhD

University of California-Davis

Addison's disease, also known as hypoadrenocorticism, is due to a deficiency of corticosteroids and mineralocorticoids, which are produced by the adrenal glands and help regulate the dog's metabolism, blood pressure, electrolyte balance and stress response. The disease is relatively uncommon in dogs, but certain breeds have much higher risk than the general dog population. In Nova Scotia Duck Tolling Retrievers, this is an inherited disease. Four chromosomal regions have been associated with the development of canine Addison's disease. This study will further examine these regions and isolate the gene or genes responsible for disease development. The results will help eliminate this disease through breeding practices.

Meet the Investigator: Dr. Hughes is a genetics graduate student at the University of California-Davis. She received her bachelor's degree in biochemistry and molecular biology from Reed College and her veterinary degree from University of California-Davis.

**From Dr Hughes:** I am writing to thank the Portuguese Water Dog Foundation for your generous support of this research project. As you aware, Addison's disease is a very costly and often a life-threatening disease in both the

Nova Scotia Duck Tolling Retrievers and the **Portuguese Water Dog**. Our research project is aimed at finding the genetic determinants of this disease in Tollers. Through collaborations between the laboratories of Drs. Oberbauer and Bannasch at UC Davis and researchers in Europe, we are examining a number of areas of interest in the Toller genome as well as looking for any additional regions that may influence Addison's disease in this breed. Our hope is that solving this problem in one breed will allow that knowledge to be extended to other breeds including **Portuguese Water Dogs**. Ultimately, a greater understanding of the genetic components of this disease and their influence on biologic pathways in the body will offer improved diagnostic testing, pre-breeding testing, and insight into the pathology of Addison's disease and related diseases in both dogs and humans.

#### IN THIS ISSUE:

NEW RESEARCH PROJECTS CO-SPONSORED WITH MAF	1
MAF PROGRESS REPORTS	2-3-4
CHF PROGRESS REPORT	4
DONATION FORM	5
LIST OF DONORS	6-8

#### Financial Founders

Carole Doerr-Allen  
Jim & Ann Gardner Arens  
Joan C. & Paul S. Bendure  
Norman & Susan Bogdanow  
Dr. Virginia Brown  
Cathy Cates & Charles White & Skyline Art, Inc.  
Janet Danford-Comer & The Ralph E. Danford Trust  
Adelaide & Lorenz Cueni  
Jane & Stu Freeman  
Hank & Rita Galaska  
Mary C. & Bill Harkins  
Theresa D. Herman  
Linda Hanson & Mike Korchinsky  
Pat Hogan  
Linda K. & Krista K. Hunt  
Maralee Johnson  
Andrew & Angela Kalmanash / Ruff Wave PWDs  
Jayne L. Kenyon  
Carolyn Miller Knutson  
Jessie & Chuck Kushell in memory of CH Camerell's Duel at Diablo  
Joan & Richard Lehach in honor of Pico do Mar & Cutwater Night Rider  
Joan Lehman, "Southfield"  
Carol M. Mattingley & Ann Bowley  
The McEwen Family Foundation  
Art & Jane McEwen in honor of "Delilah"  
Norm & Jan Mosher in memory of Camerell's Dominicao & CH High Meadow Alexis of Brinmar  
Maryanne B. Murray & Linwood A. Kulp, Jr.  
J. D. & Ann Northway in memory of "Cassie"  
John P. Piper & Deborah J. Tuttle  
Dorothy Rouse-Bottom in honor of CH Carousel Faye Britomart & CH Septimus Severus, her son  
Robert & Virginia Santoli  
Joseph & Maria C. Schoenfelder  
Charles & Marge Schreiber  
B. J. Ridings Shaffer  
Elaine Suter  
Susan Shaw Teasley  
Gerri Zuckerman

## MAF Progress Report

### D04CA-135

#### Mapping Refinement of Quantitative Trait Loci for Canine Hip Dysplasia

Rory J Todhunter, BVSc, PhD  
Cornell University

Hip dysplasia is one of the most common inherited traits in dogs with an extremely high incidence in some large breeds. It is caused by mutations in multiple genes. In previous studies, investigators discovered the genetic markers that point to the chromosomal regions that harbor the genes that contribute to hip dysplasia. In this study, they will narrow down these regions through additional genetic evaluation. By narrowing the regions that harbor hip dysplasia genes across breeds, they hope to discover the contributing mutations and use that information to design genetic tests that can be used to prevent the propagation of dysplastic dogs.

Researchers identified the first mutation associated with canine hip dysplasia in Labrador retrievers. This mutation could be used in conjunction with a panel of genetic markers to identify susceptible dogs. The team also learned that there is no single gene identified for hip dysplasia in dogs. This study pointed to several other genes that contribute to the disease, and researchers believe they will discover these genes through the process they have developed. Based on their findings, the researchers hypothesize that identifying dogs that are resistant to hip dysplasia will involve a panel of genetic markers that may be breed specific. Breeders could then use these panels in conjunction with breeding values to genetically screen puppies before the mutations themselves can be identified.

### 2008 RABIES CHALLENGE FUND ANNUAL REPORT

The Rabies Challenge Fund Charitable Trust (RCF) was established in December 2005 by Co-Trustees Kris L. Christine of Alna, ME and W. Jean Dodds, DVM of Hemopet in Garden Grove, CA. The mission of the Trust is to better define the duration of immunity conveyed by rabies vaccine. The goal is to extend the legally required interval for rabies boosters to 5 and then to 7 years.

This vaccine research project is being performed by Dr. Ronald Schultz, Chairman of Pathobiology at the University of Wisconsin School of Veterinary Medicine. The study follows the strictly defined federal APHIS/USDA standards for licensing rabies vaccines in concurrent 5 and 7 year challenge trials. The funds are collected by Co-Trustee, Dr. Dodds, and are distributed annually by the Co-Trustees, to the University of Wisconsin

Foundation. The foundation accepts the funds **without the 48% indirect cost charges** -- so that the actual dollar amount donated goes directly to fund the project.

Contributions in time and effort to the RCF project by Dr. Schultz, the Co-Trustees, Hemopet, and web mistress, Andrea Brin of LovesPark, IL are provided free-of-charge.

In the fall of 2007, a check for \$175,000 was sent to University of Wisconsin Foundation to fund the first year of the study. The same amount has been raised for the second year of the study and will be sent to University shortly. An additional \$30,000 is still needed to provide for the shortfall resulting from the unanticipated set-up costs of year one.

We look forward to the upcoming year, and continuing this study which should benefit all dogs everywhere.

Sincerely,

Kris L. Christine, Founder & Co-Trustee  
W Jean Dodds, DVM, Co-Trustee

*The Mid Year and Year End Updates are a publication of the Portuguese Water Dog Foundation, Inc.*

*P. O. Box 203*

*Parker Ford, PA 19457-0203*

*www.pwdfoundation.org*

The mission of the  
**Portuguese Water  
Dog Foundation**  
is to generate significant  
resources for funding  
research into genetic and other canine  
diseases to improve the life and  
health of all  
Portuguese Water Dogs.

## MAF Progress Report

### D03CA-071

#### Receptor Tyrosine Kinase Activity in Canine Hemangiosarcoma

Stuart C. Helfand, DVM  
Oregon State University

Hemangiosarcoma (HSA) is a common and fatal canine cancer, for which there are no effective treatments. HSA is caused by malignant blood vessel cells that spread. Despite surgery and chemotherapy, the median survival time for dogs diagnosed with HSA is little more than six months. It is more commonly seen in male dogs between eight to 10 years old, and German Shepherds are at greatest risk with Golden Retrievers, Great Danes, Boxers, English Setters and Pointers also at high risk. The investigators are looking for targets in HSA that are vulnerable to new therapeutic approaches and are evaluating a new class of drugs that show promise in treating this deadly cancer. Cancer cells frequently grow uncontrollably when normally regulated growth-signaling pathways become deranged. Using a variety of approaches, researchers showed that several growth-factor receptors trigger internal messages in the dog's body that promote the growth of hemangiosarcoma cells. By targeting these abnormalities, the team was able to investigate a new class of anticancer drugs that specifically block uncontrolled signaling pathways. These drugs, called tyrosine kinase inhibitors, have been revolutionary in improving treatment for some human cancers. The researchers hope to use the information learned in this study to develop similar inhibitors that would treat hemangiosarcoma. This would be a major advancement from the traditional treatment of chemotherapy.

### D04CA-108

#### Mechanisms of Epithelial Injury in Canine Inflammatory Bowel Disease

Peter J. Felsburg, VMD, PhD  
University of Pennsylvania

Inflammatory bowel disease (IBD) occurs relatively frequently in dogs and can cause vomiting, diarrhea, anorexia and weight loss. Despite the incidence and severity of IBD in dogs, the underlying causes remain uncertain. Current theory suggests an interplay of genetic, environmental and immunological factors.

Investigators will obtain epithelial cells from gastrointestinal tract tissue during routine gastrointestinal endoscopy in dogs with IBD. They will study these cells to determine their involvement in the inflammatory response of the gut.

Results obtained should shed light on this disease and may lead to more specific strategies for treating and preventing IBD. Although preliminary in nature, investigators showed that epithelial cells, those that line the dog's intestine, normally express receptors that interact with bacteria and their products.

The result of this interaction is production of soluble factors called cytokines, which can have both destructive and protective effects on the intestine. Investigators showed that the receptors on epithelial cells are dysregulated in dogs that are prone to intestinal inflammation. This dysregulation appears to occur before the development of clinical IBD. Investigators also identified potential mechanisms for dampening this response.

## MAF Progress Report

**D07CA-034**

### MicroRNA Expression Profiling of Canine Osteosarcoma

William C. Kisseberth, DVM, PhD DipACVIM (Oncology)  
Ohio State University

#### A letter from Dr. Kisserberth:

Thank you so much for your generous support of this research project. I just wanted to give you an update on this project and related osteosarcoma research ongoing at Ohio State University. During the first year of the project we have focused on improving, updating, and refining the custom canine microRNA microarray that we will use to analyze expression of hundreds of microRNAs from dog osteosarcomas. The result has been a redesigned second-generation array that contains 10% more canine microRNA probes. Additionally, we will likely be able to incorporate these probes into a human/mouse microRNA microarray that is being used at OSU, which will enhance statistical analysis and facilitate cross-species comparisons. We have isolated RNA from all osteosarcoma tumor samples collected at OSU and are now in the process of obtaining and isolating RNA from tumor samples provided by Dr. Modiano. We expect that we will be able to run most of these samples on the arrays by April 1. Additionally, Aimee Jalkanen, a third-year veterinary student in my laboratory who was funded by MAP as a Student Scholar, has been isolating osteoblast/mesenchymal stem cells from normal bone to compare microRNA expression to. Much of the work in the laboratory is being conducted by Dr. Joelle Fenger, who joined my laboratory as a PhD this past June. This project forms the major basis of her PhD thesis research and she is being co-mentored by both me and Dr. Cheryl London.

Investigators at The Ohio State University College of Veterinary Medicine are very involved in osteosarcoma research. In fact, the theme of the Comparative Oncology Program meeting this past quarter in the College of Veterinary Medicine was osteosarcoma. We continue to participate in ongoing clinical trials for osteosarcoma treatment, including the COTC rapamycin trial in collaboration with investigators at the National Cancer Institute and sponsored by the MAP and an adjuvant carboplatin/gemcitabine trial (Dr. London, PI). We are also very involved with the preclinical and eventual clinical evaluation of targeted (e.g. met-, STA3-, HDAC-, and HSP90-inhibitors) and "alternative" (e.g. artemisinin and curcumin analogs) therapies and the study of bone biology and bone metastasis. Real progress in treating dogs with osteosarcoma and other cancers is only possible through the study of the dog disease (not just the people disease). It is your support that makes that possible.

We will be working intently and with much anticipation on this study in the months ahead. It is through the combined efforts of all these investigators that real progress can be made to better understand and treat this all too common and devastating disease. Please do not hesitate to contact me if you have any questions regarding this study.

Sincerely,  
Bill

William C. Kisseberth, DVM, PhD - DipACVIM (Oncology) - Associate Professor

## MAF Progress Report

**D07CA-029**

### Pharmacokinetics and Pharmacodynamics of Hydroxyzine in Healthy Dogs

Dr. Thierry Olivry, DrVet, PhD, DipACVD, DipECVD  
North Carolina State University

(See last minute update on next page).

Skin allergies are a common reason for veterinary visits. Atopic dermatitis, a chronic skin disease, is a lifelong condition that affects the quality of life for affected dogs and can even alter their relationships with their owners. It is often treated with antihistamines, but little is known about the absorption and distribution of these drugs in dogs. This lack of knowledge can lead to dogs receiving inappropriate dosages of the drug or incorrect frequency, causing treatment to fail. In addition, some of these drugs can cause adverse side effects. The goal of this study is to determine whether oral administration of the antihistamine hydroxyzine is absorbed into the dog's bloodstream and metabolized sufficiently to suppress allergic reactions. The results will help determine the optimal dose and frequency of this drug for treating atopic dermatitis in dogs.

The repeatability of the IDT was confirmed not to be significantly different ( $P=0.45$ ). Dogs tolerated the intradermal injection well without side effects.

We also successfully finished the experimental part of the second phase involving the dogs. This part of the project included the hydroxyzine administration, blood collection and repeated IDT. No adverse effects were recorded.

The preliminary results from the experimental part of the study demonstrated that there is a significant reduction of the global wheal score of histamine and anticanine IgE serum induced skin reaction after oral and intravenous administration of 2 mg/kg hydroxyzine. Although more than 50% reduction of the global wheal score was recorded during the entire 24-hour period, a maximal reduction (>80%) was observed only during the first 8 hours after the oral or intravenous administration of hydroxyzine. The histamine-suppressive effect appears to be mediated by cetirizine, the metabolite of hydroxyzine.

### D07CA-085 Pooled Association Mapping for Canine Hereditary Disorders [\(See page one for more info\)](#)

Dr. Gregory M. Acland, BVSc  
Cornell University

We are attempting to modify the genotype calling software for association studies using the Affymetrix vs 2 Canine SNP chip, to permit genotyping on pooled samples. If this is successful we will use this approach to map the genes for several canine inherited eye disorders. Even if the pooled approach fails, this project will generate association data for the cone rod dystrophies that should allow identification of candidate genes to be evaluated, and potentially allow identification of the mutant genes, and corresponding specific DNA tests to be made available to breeders.

**\*\*\*\*\* FREE MONEY FOR THE PWDF \*\*\*\*\***

<http://www.goodsearch.com/default.aspx> or <http://www.goodsearch.com>

Those two addresses will cost you nothing and make money for the Portuguese Water Dog Foundation! This is a search engine powered by Yahoo that has been around for quite some time now. Picking us from a long list of charities (we are listed twice-either one is okay) they will make a donation every time you do a search for anything through this site. Should you buy anything from one of the many merchants that participate (all the big names-they have a list) we get a much bigger donation (anywhere from 1% to as much as 10% of the cost of the item). The prices are **NOT** higher to cover the rebate to us. It is a charitable deduction for the company. We have already received money from GoodSearch!

The check we received worked out to 1.3 cents per search and close to 3% of the purchases made through their 800+ retail partners—from Amazon to Zappo's. So how about it? Why not make GoodSearch your home page for all your web searches?

## AKC CHF Progress Report

0945

### Mucosal Gene Expression Profiles in Canine Inflammatory Bowel Disease

Dr. Albert E. Jergens, DVM

Iowa State University

Start Date: 6/1 /2008 End Date: 5/31/2010

Canine inflammatory bowel disease (IBD) is a chronic intestinal disorder likely resulting from the interaction between genes and environmental factors. While it is generally accepted that luminal bacteria play a pivotal role in mediating gut inflammation, genetic factors may also contribute to the bacterial-driven inflammatory response. Several susceptibility genes, such as NOD2/CARD15, have recently been identified in humans with IBD and provide a basis for the development of aberrant immune responses to bacteria in certain individuals. It is reasonable to hypothesize that susceptibility genes also predispose to clinical disease in dogs with IBD by adversely affecting the interaction with intestinal bacteria and/or their products. Genetic factors are thought to contribute to the pathogenesis of canine IBD as in humans. A role for luminal bacteria is suggested by observations that antibiotics reduce clinical signs, and by reports of increased bacterial numbers in intestinal biopsy specimens obtained from dogs with IBD. Given the recognized breed predispositions, genetic susceptibility to IBD is also likely, although studies are lacking.

We propose to utilize unique molecular biology tools to: (1) identify key genetic factors contributing to disease expression, (2) characterize gene expression profiles which may predict responsiveness to specific therapies, and (3) provide the framework upon which to facilitate identification of IBD susceptibility genes that predispose specific canine breeds to clinical disease.

#### Performance Summary:

This is the first progress report for a two year grant. Looking at just the progress towards the listed objectives, it does not look like much work has been performed. However, the initial 6 months has focused on the recruitment of IBD dogs and phenotype confirmation of these dogs. They have recruited 18 of the 20 dogs needed for the study.

By the next progress report they should have performed the RNA microarray to look at gene expression.

#### OBJECTIVES COMPLETED: 0 of 2

Hypothesis: Gene expression profiles in intestinal tissue samples of dogs with IBD will provide comprehensive insight into altered gene expression patterns contributing to gut inflammation.

#### Objective 1:

To investigate global gene expression patterns of inflamed intestinal tissues and normal control intestinal tissue using RNA microarrays. The differentially expressed transcripts will identify patterns associated with inflammation and host immune responses. 20% COMPLETE

#### Objective 2:

To utilize quantitative RT-PCR to confirm microarray data and validate unique gene expression signatures in dogs with IBD. 0% COMPLETE

#### Significant Accomplishments:

Recruited 18 dogs with clinically confirmed IBD.

#### Report to Grant Sponsor:

Canine inflammatory bowel disease (IBD) is a chronic intestinal disorder likely resulting from the interaction between genes and environmental factors. We propose to utilize unique molecular biology tools to: (1) identify key genetic factors contributing to disease expression, (2) characterize gene expression profiles which may predict responsiveness to specific therapies, and (3) provide the framework upon which to facilitate identification of IBD susceptibility genes that predispose specific canine breeds to clinical disease. We are making good progress towards these goals as evidenced by the following:

Identification of 18 dogs having clinical disease of adequate severity to enroll into the clinical trial. It is likely that this population will show alterations in genes responsible for canine IBD when compared to gene expression profiles in normal healthy dogs. We have identified archived tissues from 6 healthy dogs to serve as controls.

We are simultaneously evaluating the effectiveness of certain therapies in IBD to find out which drugs and diets provide the most beneficial results.

We have carefully extracted the genetic material (RNA) from endoscopic samples which will be used in our gene profiling studies.

We are now prepared to evaluate gene expression profiles in the normal versus diseased dog groups using specific molecular tools (i.e., microarray analysis).

## LATE UPDATE on MAF D07CA-029

### Pharmacokinetics and Pharmacodynamics of Hydroxyzine in Healthy Dogs

Dr. Thierry Olivry, DrVet, PhD, DipACVD, DipECVD

North Carolina State University

Atopic dermatitis is a common allergic skin disease in dogs and humans. Antihistamines are among the most commonly prescribed treatments. Unfortunately, the optimal dosages of commonly used antihistamines have never been scientifically determined, and their effects have not been validated in dogs. Researchers at North Carolina State University wanted to determine whether hydroxyzine, one of the drugs most commonly used to treat atopic dermatitis in dogs, truly provides an antihistamine effect and, if so, what the appropriate dose is for dogs. They successfully determined that hydroxyzine does produce an antihistamine effect and confirmed that a twice-daily dose is appropriate, versus the previously standard prescription of three times a day. They also discovered that when hydroxyzine is administered orally or intravenously the drug breaks down into its simpler form (cetirizine), and this simpler form is responsible for the actual antihistamine effect. They now want to look at this drug as a more effective treatment for atopic dermatitis.

## PWDF PUPPY PLEDGE

Breeders, why not help raise money for the Foundation and research at no cost to yourselves?

Ask that your new puppy owner make a donation to the Portuguese Water Dog Foundation, Inc. (PWDF). You can suggest an amount of \$100, \$50 or even \$25. They write the check and they get the tax deduction. It doesn't cost you anything, because it has nothing to do with what you charge for a puppy. In fact you really can have nothing to do with the transaction at all (if you prefer) since they can send us the check directly and either way we will provide them with the receipt.

It does, however, show that you care deeply about the future health of the Portuguese Water Dog.

We would be more than happy to supply you with copies of our latest newsletter and envelopes for your puppy people to send their checks in to us.

Some breeders have actually made it mandatory that a \$100 contribution be made and believe it or not, nobody has ever objected. Usually the comments have been along the lines of "this is a great thing for you to do".

So, why not give it a try?

## \*IMPORTANT - ADDISON'S\*

### Cheek Swabs Still Needed

If you have not participated in the study or need to update your dog's health information (especially as it relates to any relatives related to a affected dog and it's parents – this would include sibs, aunts, uncles, grandparents, cousins, half -sibs, etc.) please go to <http://cgap.ucdavis.edu>

**The Portuguese Water Dog Foundation, Inc.  
P.O. Box 203  
Parker Ford, PA 19457-0203**

The Portuguese Water Dog Foundation, Inc. needs your help and support to fund research to improve the quality of life and health of our Portuguese Water Dogs. Your **tax-deductible** donation, **in any amount**, would be greatly appreciated. In addition to personal donations, a donation may be made in memory or honor of a friend or loved one, whether human or canine. Donors' names will be kept anonymous upon request.

**Donor levels are: Deck Hand** (up to \$49); **Sailor** (\$50 to \$99); **Boatswain** (\$100 to \$249); **First Mate** (\$250 to \$499) **Captain** (\$500 - \$999); **Commodore** (\$1000 or more)

**Yes, I want to do my part to help Portuguese Water Dogs.**

Enclosed is my donation, in the amount of \$ \_\_\_\_\_, payable to PWDF, Inc.

**MAIL CHECKS TO:** PWDF, Inc. - P.O. Box 203 - Parker Ford, PA 19457-0203

**OR FAX CREDIT CARDS TO:** 610 469-8661 (a secure number - 24/7)

**OR ONLINE** at [www.pwdfoundation.org](http://www.pwdfoundation.org)

**PLEASE PRINT OR TYPE CLEARLY**

Donor may be listed as \_\_\_\_\_

Donation is  in memory of  in honor of  Happy Birthday  Congratulations on your win!  Thank You

Name \_\_\_\_\_

Please send acknowledgement/receipt for donation to:

Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

***Credit card forms can be faxed to 610 469-8661 (a secure number - 24/7)***

**OR you can submit them online at [www.pwdfoundation.org](http://www.pwdfoundation.org)**

**VISA      MASTERCARD      DISCOVER      AMERICAN EXPRESS**

Credit Card # \_\_\_\_\_ Exp Date \_\_\_\_\_

Credit Card Security Code Required (last 3 digits printed above the signature—AmEx 4 digits printed on front of card) \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Name \_\_\_\_\_ Email \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

*Thank you for your generosity and support of the Portuguese Water Dog Foundation, Inc*

**Recognized under IRS 501(c)(3) Tax Status - Donations to the Foundation are tax-deductible**

The official registration and financial information of The Portuguese Water Dog Foundation, Inc. may be obtained from the Pennsylvania Department of State by calling toll free, within Pennsylvania 1-800-732-0999 or out of state 1-717-783-1720. Registration does not imply endorsement.

Tear Here



# In Memory of...

# In Honor of...

Looking for reasons (or excuses) to support the PWD Foundation and health research throughout the year? You can show your support and at the same time acknowledge a human or PWD friend or family member? Send a donation to honor that friend or a memorial donation in the memory of a departed friend. The PWD Foundation will send a nice card embossed with our logo acknowledging your generosity to the person or family you designate.

## **Commodore \$1,000+**

Carole Doerr Allen  
 In Memory of Chester  
 Deb Bender/Calimel  
 Carolyn & Dan Iraggi  
 Jessie C. Kushell in memory of Ch Camerell's Duel at Diablo  
 Dr. John Northway in memory of Ann Northway  
 Portuguese Water Dog Club of Northern California in honor of the Portuguese Water Dog Foundation's 10<sup>th</sup> Anniversary  
 Steve, Laurie, Jordan & Danny Weiner In Memory of Our Beloved Nina: 2/18/1995 – 10/18/2008  
 Geri ZuckermansSeadream Portuguese  
 Water Dogs•Salty•Dolly•Clue•Keel

## **Captain \$500-\$999**

Dyanne Brewster in memory of Emma  
 Shirley Coleman and Alan Barnes  
 Bettie Hastings in memory of Kalista's Admiral  
 Porter UDX2 RA OA OAJ NAP OJP CWDX SRM.  
 Laureen Miki in memory of Stargazer's Quixotic  
 Comfort, Sancho Panza (8/23/95 – 10/03/08)  
 John Northway in memory of Ann Northway, Cassie and  
 Splash as well as in honor of J.D. Northway and Polly  
 The Officers, Board and Members of the Nutmeg Portuguese  
 Water Dog Club in memory of Claudia Mohr  
 Peter O. Page & Anne Elliott Page  
 Portuguese Water Dog Club of the Twin Cities as a  
 Thank You to Lauren McDermott for leading  
 their February 2009 Waterless Water Workshop  
 George & Trudy Putnam  
 Margaret & Charles Schreiber

## **First Mate \$250-\$499**

Karen & Jim Ash & the SaltyDawg PWDs in memory of Ch Admiral Travis B. Clyde of Ferncliff  
 In memory of the COPWDC PWDs that crossed the rainbow bridge in 2008:  
 Ch MACH Tradewind's Lunar Eclipse, TD, RN, FN, CWDX, GROM, "Yeager" and Tradewind's Fantasia, OA, OAJ, CWD "Abby" Loved by Mike Ihrig and Sue Zgol;  
 Ch Bikjak Tsavo Tuna of da Zea, CD "Zea" and Tsavo's Tax Refund of Delsur "Ree" Loved by Kerry Button;  
 Ch Pinehaven's What Women Want,  
 WWD "Mel" Loved by Bev Rafferty  
 In memory of Bogey for JDCM  
 Great Lakes Portuguese Water Dog Club  
 John & Mimi Karlsson in honor of the PWD PSG  
 Carolyn M. Knutson in memory of Lizzie and Macy  
 Portuguese Water Dog Club of Northern California  
 Portuguese Water Dog Club of the Twin Cities as a Thank You to Tammy Etscheidt for leading their February 2009 Waterless Water Workshop  
 Marilyn Rimmer in memory of Friday, Nemo, Diablo, Chief, Rudy, Diego, Dog and Splash  
 Ray Rischpater and Meg Given Thanking Cheryl and David Smith, Dacher Portuguese Water Dogs  
 Nancy L. Schlemmer in memory of "Dutch" Presidio Dutch of Alto Mare, TDX, CWDX, SAR, MO-TFI  
 Kitty Klein Shaffer in memory of 'Bonney Blue' who is much missed by Barry & Danna Beith  
 Kitty Klein Shaffer in memory of 'Winston' who was owned & adored by Cynthia & Phillip McKee  
 Tom & Peggy Weissenborn in memory of Intl Ch Tradewinds Baron Marin de Grande

## **Boatswain \$100-\$249**

Amigo PWD's in memory of BigBoy & Twinkles – Our first generation  
 Debbi & Ed Appel in Honor of Katama  
 Ann & Jim Arens in memory of Anji's Seawolf de Galvez AKA 'ROCKY'.  
 Rocky, You almost made it to 16 years. You were so loved and will be so missed. Now go find sister 'Sassy' at the bridge.  
 Dr. & Mrs. James F. Arens in memory of John Bumiller  
 Cliff Barrett in memory of Lynda Barrett & Porgee, Willie, Louie & Leroy  
 Jim & Kimberly Beach in memory of John Bumiller  
 Deb Bender in memory of BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM  
 Deb Bender in memory of Presidio Dutch of Alto Mare  
 Steve & Bobbie Benninga in memory of Bossanove & D.J.  
 Karen Berggren in honor of the PWD PSG  
 Durfee Betts Friendship PWDs Puppy Pledge  
 Boeing Rotorcraft Friends and Co-workers in memory of James J. McLaughlin  
 Diane & John Burke wishing Allison (PWD) a Happy 6<sup>th</sup> Birthday  
 Scott & Annette Castiglione Friendship PWDs Puppy Pledge  
 Joanne Chilton in memory of Stryker  
 Annette Claire & Gabrielle  
 John & Susan Cucura  
 John & Susan Cucura in memory of Allie - BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM  
 John & Susan Cucura in memory of Int'l/Me/US CH  
 Roughrider Saltwater Serenade CDX CWD GROM  
 John & Susan Cucura in memory of Zola - Finisterra Dancing in the Dark.  
 Jennifer & Steve Davis Friendship PWDs Puppy Pledge  
 Libby Devlin in memory of Roxy  
 Pat DeVries in honor of the PWD PSG  
 Gina M. DiMaio & Michael B. Harrop in memory of CH. Starlite's Agua Cruzador, 'Rosco'  
 Lori Lynne Stanton-Dinger & Dennis  
 Dinger Friendship PWDs Puppy Pledge  
 Foxtails PWDs – Pat & Arvid Qvigstad in memory of "Ayjay"  
 Foxtails PWDs – Pat & Arvid Qvigstad in memory of Presidio Dutch of Alto Mare, TDX, CWDX, SAR, MO-TFI, "Dutch"

**Boatswain \$100-\$249** (cont'd)

Jane & Stu Freeman in memory of 'Rosco', CH. Starlite's Agua Cruzodor  
 Matthew & Shonna Gillespie Friendship PWDs Puppy Pledge  
 Vicki & Ken Goldberg in honor of Blue & Maggie  
 Scott, Trish & Lulu Grader in memory of  
 Cutwaters Sophisticated Defense ("Sophie")  
 Francis C. Grant III wishing a Happy Birthday to Lulu & JT  
 Bill, Bev & Family in memory of James J McLaughlin  
 Angela Harding, RainCity PWDs in honor of the "Island" litter  
 Angela & Stan Harding in memory of Int/Am/Can Ch  
 Benhils Stillwater Chiquita CD RN AWD BROM "Chiqui"  
 Jane Harding, Cutwater Portuguese Water Dogs in memory of Elvis Roush  
 Melinda Reid Hatton  
 Sonja L. Haugen  
 Michele Hemenway in memory of Zaphod  
 Thank You to our PWD Angel Carole - Love Axl  
 Ron & Sandy Holden in memory of Ch Alto Mare Oceana Brisa  
 Linda & Krista Hunt in honor of Kalista's  
 It's All About Me AWD NA NAJ 'Iggy'  
 Linda & Krista Hunt in memory of Kalista's Admiral  
 Porter UDX2 RA OA OAJ NAP OJP CWDX SROM  
 Sarah L. Kahn in honor of Bean & Ace - 2 Platinum ROMs  
 Reenie & Al Klett Friendship PWDs Puppy Pledge  
 Kelly, Rick & Alex Knapp Friendship PWDs Puppy Pledge  
 Jessica Korf & Bill Beaver Friendship PWDs Puppy Pledge  
 Stephen Lawroski in memory of Mambo  
 Meridith & Michael Lehman Friendship PWDs Puppy Pledge  
 Emilia Letts & Manny  
 Arthur & Roberta Levin in memory of our beloved PWD Bissa Levin  
 Pam Marshall  
 Leslie McCracken in honor of the PWD PSG  
 Margaret Megaw  
 Rachel S. Miles in memory of Ch DeLeao's  
 Master Blaster CDX NA CGC TDI TT with  
 Pfizer Foundation Matching Gift  
 Susan Myrick, Pickwick in memory of Ch Del Sur's Makin A  
 Splash & honor her dedicated breeder, Lana Woodburn  
 Donald & Barbara Niemann  
 M. Norris in memory of Nike, our good, good, dog  
 From the members of the Nutmeg Portuguese  
 Water Dog Club in memory of Myrna Libby  
 Ohio Association For Court Administration as a  
 Thank You to Dolores F. Torriero  
 Happy Birthday to Rick Oberndorf  
 Deb Phelps in honor of Charlotte  
 Pat & Arvid Qvigstad in memory of John Bumiller  
 Dorothy Rouse-Bottom  
 Stan & Milarie Rude in memory of Ch Windward Sea Navigator, "Tank"  
 Stan & Milarie Rude in memory of John Bumiller  
 Risha & Paul Samuelson in honor of Dacia  
 Rhonda Sanderson Friendship PWDs Puppy Pledge  
 Robert & Virginia Santoli  
 Lynn & Dave Saturno thanking Janis Watts &  
 Mart Miller for our wonderful Schooner  
 Betsy Schimpff  
 Donna E. Shalala in memory of Cheka  
 Southern California Portuguese Water Dog Club, Inc. in memory of  
 Lauren McDermott's "Ben" CH Amarinhar Benquisto OA OAJ NAP  
 NJP NF CWDX SROM & Bobbe Kurtz's "Fancy" Starview's Desert  
 Fantasy & Leslie Arner's "Zola" Finisterra Dancing in the Dark  
 Lorelei & Michael Sowa - CnSand Puppy Pledge - Matching  
 Gift from Aspen Insurance US Services, Inc.  
 Stacy, John & Tony Stahl  
 Ken & Caren Stanley in memory of Seltzer & Splash  
 Gary Stern & Martha Martin  
 Gloria Stevens in memory of Ch Pennrico Sea A Star  
 Susan Straight & Elona Meyer in memory of "Margo"  
 Barbara Strauss wishing a Happy Birthday to Joy  
 Victoria Trapanotto in honor of Camie & Lucy

**Boatswain \$100-\$249** (cont'd)

Mr. & Mrs. Richard D. Vincenti & Mr. & Mrs. Dante  
 F. Vincenti, Jr. in memory of James J. McLaughlin  
 Deana Volker in honor of the PWD PSG  
 Janis Watts, Jan Shirreffs, Pam Barnett, & Linda Kelly in memory of Kodie  
 Tom & Peggy Weissenborn in memory of  
 Intl Ch Tradewinds Baron de la Marin Grande  
 Margaret White in memory of Chief, Caddy, Mandy & Taylor  
 David Wichterman & Carol Bronowicz-Wichterman in  
 memory of 'Rosco', CH. Starlite's Agua Cruzodor

**Sailor \$50-\$99**

Mary Barbara & Michael Alexander Congratulating 2 New Junior  
 Water Dogs: Hi Seas Vineyard Periwinkle & Hi Seas Rosa do Mar  
 Daniel & Karen Allen in memory of John Bumiller  
 Anonymous  
 Karen & Jim Ash & the SaltyDawg PWDs commemorating  
 the 5 year anniversary of our loss & in memory of  
 SaltyDawg n Driftwood Raising the Roof  
 John & Geri Azevedo in memory of  
 Ch Roughrider's Bege DeTriã A CD RAE CGC  
 Stephen & Karen Begin in memory of all our furkids at the bridge  
 Belouro Reg'd PWDs as a Thank You to Originals by Omar's  
 for their generous donation of a silver pendant for the auction  
 Jan Bennett wishing Marianne Kost a Merry Christmas  
 Leon, Karyn, Jessica and Rebecca Benson in honor of Chelsea  
 June & Jorge Berdichewsky "We love Vasco"  
 In memory of Carousel's Keri Me Back from her  
 daughter (Immy) and her granddaughter (Patches)  
 Sue & David Bloom in memory of Jake, Jessie, & Hannah  
 Lance & Deonne Boxer as a Thank you to the PWD F  
 Maxine & Hanna Brainer in memory of Harley B  
 Dyanne Brewster in honor of the PWD PSG  
 Brinks Home Security matching funds for Linda Kelly in memory of Kodie  
 Ann Camp in honor of the PWD PSG  
 Linda & Jim Carey in memory of 'Lizzie' Rockmere's Ms Lizzie B Good.  
 Sandra & Robert Caruso  
 Nigel Clark / Oreo Bay in honor of the PWD PSG  
 Phyllis Crane & Howard Talesnick  
 Barb Crowther  
 Melissa & Brian Deutsch in honor of Margo  
 David & Gail Diehl in memory of John Bumiller  
 Cindy Dorner in memory of Gromit  
 Chuck Ellman in memory of 'Rosco', CH. Starlite's Agua Cruzodor  
 Amanda Ford in honor of the PWD PSG  
 Dr. Richard A. Frankel in memory of Bernie & Izzy  
 Shelly Drucker Friedman with sincere thanks to  
 Rolli Grayson, Jan Mosher & Janeane Vickers  
 Linda Garbarino in memory of Colville Jackson  
 Nancy Gills in memory of Ch Stargazer's Hanalei Voyager "Allie"  
 Gillian and Frank Goldschmidt in honor of Elizabeth and Rory  
 Donna Gottdenker in honor of the PWD PSG  
 Mary Guziak in memory of James J. McLaughlin  
 Mary & Ron Guziak  
 John Haeger in memory of Piedelai Allegretto Con Brio  
 Angela Harding in honor of the PWD PSG  
 Petro Haring - Sandstone Portuguese  
 Water Dogs in honor of the PWD PSG  
 Suzann & Brian Holte  
 Linda K. Hunt in honor of the PWD PSG  
 Silke Hirtz-Schmidt in honor of the PWD PSG  
 Beverly Ironside in honor of the PWD PSG  
 John & Sue Jobe in memory of Glenlyn's Orion (Tug)  
 "Sailor" Kennedy in honor of his birthday  
 Jayne L. Kenyon & Moby  
 Robert & Joyce Knox wishing a Happy 3<sup>rd</sup>  
 Birthday to Daisy (pure love in a fur coat)

**Sailor \$50-\$99** (cont'd)

Karen & Randy Latham in honor of Beau, Ivana, Allie & Cole  
 In memory of Boomer, Cisco, Izzy Bayswater  
 Sarah Leatherman, Shipper and Luna we miss you Sweet  
 Abby (Tradewinds Fantasia, OA, OAJ, CWD, CGC)  
 Doug & Cathy Lee in memory of Herbie  
 Lou Ann & Bob Lindquist in memory of Maggie Mae & "Bump"  
 Vinnie, Pearl & Ginger send Happy Birthday wishes  
 Ernest J. Mammarella in memory of James J. McLaughlin  
 Maritimo PWDs in honor of the PWD PSG  
 Mr. & Mrs. Joseph J. Markiewicz sends Congratulations on Ch. "Indy's" win  
 Shelly & John Mart  
 Janet and Andrew Masetti in memory of Brinca  
 Carol McAdams & Koko in memory of Doce  
 Mares Gofredo "Gordo" 12/1998-10/2008.  
 Jane McEwen in honor of the PWD PSG  
 Mart Miller & Janis Watts in memory of Keesa Marie, Calle & Sashain  
 In memory of 'Rosco', CH. Starlite's Agua Cruzodor with  
 love from Angel, Tori, Josua, Benjamin and Gerrie  
 Candace Moser in memory of Nautica's Noble Mr. Nibs  
 Norm & Jan Mosher in memory of 'Rosco', CH. Starlite's Agua Cruzodor  
 PNWPWDC in honor of Jo Forsythe. Thxs  
 for being NW Tails Editor all these yrs!  
 PNWPWDC in honor of Janet Boyd for  
 your contributions to our newsletter  
 Patriot PWDs/Kathy Maguire in honor of the PWD PSG  
 Jack & Laura Pettus in honor of Max  
 Phonology Project coworkers in memory of Bailey McSweeney  
 Pat & Arvid Qvigstad in memory of Ann Blackburn  
 Patsy & Arvid Qvigstad in memory of Will Warner  
 Ellen Rivers in memory of Skipjack  
 Betsy Schimpff in honor of the PWD PSG  
 Chris & Katy Selverian wish George Selverian a Merry Christmas  
 Linda Shultz in memory of Jim & Pat McLaughlin  
 Kathy Souza in honor of the PWD PSG  
 Elaine Suter for cardio research  
 Elaine Suter in honor of the PWD PSG  
 Dr. Elizabeth Trainor in honor of the PWD PSG  
 Tamara Trostle in memory of BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM  
 Deborah Vaccaro in honor of the PWD PSG  
 Bill & Kelli Varner in honor of the PWD PSG  
 Nancy Vener  
 Charlotte M. Wheaton in memory of Gayle  
 Winds Katrina who died of food poisoning  
 Sue Wilcox-Hall in honor of the PWD PSG  
 Lisa Wilkinson in memory of Jim & Pat McLaughlin  
 Kristina Winkler as a Thank You to Max Winkler  
 Elana Winsberg Congratulates Duffy on her win!  
 Jerry, Kim, Chris, Catie & Rebel Wolcoveick in  
 memory of Curly, Faro & Frannie  
 Penny Yamamoto wishes a Happy Birthday to Boo & Brinee

**Deck Hand up to \$49**

Amigo PWD's in honor of the PWD PSG  
 Wendy & Dirk Anderson in honor of the PWD PSG  
 Anonymous for Dunlop Koehler  
 Karen & Jim Ash & the SaltyDawg PWDs in honor of the PWD PSG  
 Carol Asnes in honor of the PWD PSG  
 Jim & Kimberly Beach/Diamante PWD's in honor of the PWD PSG  
 The Bednarz Family in honor of Onyx  
 Anita Berson & Magic  
 George & Kelly Bradford in memory of James J. McLaughlin  
 Carol Bronowicz-Wichterman in honor of the PWD PSG  
 Susan & Michael Burke  
 Camlin Seadancer PWDs in honor of the PWD PSG

**Deck Hand up to \$49** (cont'd)

Frank & Terry Cardillino in memory of  
 Colville Jackson and his precious "Taylor"  
 Linda & Jim Carey in honor of the PWD PSG  
 Dave & Patty Dias say Thank You to Belouro PWDs  
 In memory of Dutch for his courage and service to the world  
 Angelika Ebenig in honor of the PWD PSG  
 Jane Freeman in honor of the PWD PSG  
 Barbara & Gerry Gutshall in honor of Kody  
 Bronwyn Hahn in memory of John Bumiller  
 Chris Harris in honor of the PWD PSG  
 Jean Hassebroek in honor of the PWD PSG  
 Judith Henry  
 Pat Hogan in honor of the PWD PSG  
 Hallie Howe in honor of the PWD PSG  
 Linda & Krista Hunt in memory of Kalista's Hide Nor Heiress 'Heidi'  
 Linda & Krista Hunt in honor of Kalista's Icebreaker  
 RA AWD 'Breaker' for earning his AWD  
 Linda & Krista Hunt in honor of Kalista's  
 I'm Gilded Two CD RN JWD 'Lucy' for earning her CD  
 Linda & Krista Hunt in memory of Ch. MACH  
 Excalibur's Achievement CDX RAE 'Chief'  
 Linda & Krista Hunt in memory of BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM 'Allie'  
 Linda & Krista Hunt in memory of 'Nicki' Tasto  
 Angela Kalmanash in honor of the PWD PSG  
 Diane Keppen in honor of the PWD PSG  
 Carter & Colleen Kerk in honor of Olive  
 Joyce & Roger Lacy in memory of James J. McLaughlin  
 Amy Lane – Allegiance PWD's in honor of the PWD PSG  
 Carol Mattingley & Ann Bowley in memory of John Bumiller  
 Carol Mattingley & Ann Bowley in memory of BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM  
 John & Yvonne McCredie Congratulating Bingo on his wins!  
 The McNamee Family in memory of Rosco  
 Trudy Nass In honor of Kathan Kennedy  
 Rich Palmer in memory of James J. McLaughlin  
 Karen, Walter, & Jeffrey Paulick in honor of Misty Rose our beloved dog!  
 Jan & Bob Pikula in memory of AKC/UKC  
 Ch KPort Ruff Sport of CnSand – "Rugby"  
 Julie & Ty Rust in honor of the PWD PSG  
 Robert & Virginia Santoli in memory of "Allie" - BISS CH  
 Freestyle First And Foremost OA NAJ CWDX AOM GROM  
 Sandy Saybolt in honor of the PWD PSG  
 Nancy Scarci  
 Charles & Marge Schreiber in memory of John Bumiller  
 Charles & Marge Schreiber in memory of BISS CH Freestyle  
 First And Foremost OA NAJ CWDX AOM GROM  
 Charles & Marge Schreiber as a Thank You to Cristi  
 Wetherholt for taking such good care of Gala!  
 Linda Shooer in honor of (Leo) Oreo Bay Prince of Tides  
 Renée K. Smith in loving memory of  
 Ch Benhills Stillwater Chiquita CD RN "Chiqui"  
 Judy L. Stagner in memory of Ch Neocles Realizar C'Brilho  
 Christopher & Bevin Taylor  
 In memory of Dutch for His Courage and service to the World  
 MaryBeth Turner in honor of the PWD PSG  
 Joyce Vanek in honor of Timbermist's – Ch Kita & Toti  
 Terry & Nicholas J. Vincenti in memory of James J. McLaughlin  
 Janet Warnsdorfer & Galaxy PWD's in  
 memory of Ch. Starlite's Agua Cruzodor  
 Janet Warnsdorfer & Galaxy PWD's in  
 memory of Galaxy's Class with Sass  
 Janet Warnsdorfer & Galaxy PWD's in Honor of the PWD PSG  
 Janis Watts in memory of Myrna L. Dinning  
 Lisa Wilkinson in memory of Seven  
 Sian Wilstrup in honor of the PWD PSG