

PORTUGUESE WATER DOG FOUNDATION, INC.



2009 FALL UPDATE

PWDF CONTINUES TO SUPPORT RABIES CHALLENGE FUND FOR 3RD YEAR

The goal of The Rabies Challenge Fund Charitable Trust is to extend the legally required interval for rabies boosters to 5 and then 7 years, based on the findings of the rabies challenge studies currently underway at the University of Wisconsin School of Veterinary Medicine. If the studies' results demonstrate that the rabies vaccine confers 5, and possibly 7, years of immunity, there would be a significant impact on controlling rabies and reducing adverse reactions associated with the vaccine.

The Rabies Challenge Fund relies on donations to finance the multi-year challenge studies that began in November 2007. Due to the economic downturn, the Fund has a \$97,000 shortfall for the third year of the studies, scheduled for this fall. This deficit threatens the future of the research.

Costs for the studies' third year are \$175,000. Since January, they have raised nearly \$78,000 of that amount. They need to have eighty percent of the total funding for the year's budget in hand to begin the third year of the studies. All donations received will be used to finance the direct research costs of the rabies challenge studies. The PWDF has donated for year one and increased the donation substantially in year two. Due to the fact that the RCF has a tremendous shortfall this year, in December we plan on discussing whether or not to send an additional amount to the RCF to help them meet their goal. Should you have any thoughts either way please feel free to email us at president@pwwdfoundation.org. We welcome your input.

CO-SPONSORED MORRIS ANIMAL FOUNDATION UPDATE

D07CA-034 MicroRNA Expression Profiling of Canine Osteosarcoma

W. C. Kisseberth, DVM, PhD, DipACVIM (Oncology)

Ohio State University

UPDATE: Osteosarcoma, commonly known as bone cancer, is a significant cause of death in large and giant dog breeds. Because cancer is believed to be a genetic disease, genomic approaches are needed to study canine bone cancer. Researchers at The Ohio State University have developed a

customized genetic tool to study Osteosarcoma. This tool - called a canine microRNA microarray - will be used to characterize microRNA expression in Osteosarcoma and to determine if there are differences between tumors from Greyhounds and Rottweilers - two breeds predisposed to Osteosarcoma. The investigators hope to identify new molecular targets for therapy that will lead to better treatment of this disease. This grant is serving as the research project for a PhD/Veterinary Medical Oncology resident's graduate thesis and a Morris Animal Foundation (MAF) Veterinary Student Scholar (VSS) project. The VSS will present her work at the MAF Annual Meeting in June, 2009.

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CO-SPONSORED MORRIS ANIMAL FOUNDATION UPDATES

D08CA-402 Genetic Analysis of Hypoadrenocorticism in Nova Scotia Duck Tolling Retrievers

Angela M. Hughes, DVM
Anita M. Oberbauer, PhD
University of California-Davis

UPDATE: Addison's disease, also known as hypoadrenocorticism, is a deficiency of hormones (corticosteroids and mineralocorticoids) that are produced by the adrenal glands and help regulate a 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, it is believed to be an inherited disease. Researchers from University of California at Davis have narrowed down four chromosomal regions that have been associated with the development of canine Addison's disease. They are further examining these regions to isolate the gene or genes responsible for Addison's disease in this breed. Once the gene mutation is identified, a genetic test can be developed that will help eliminate this disease through informed breeding practices. Breeds that could directly benefit from this research, as they also are at increased risk for Addison's disease, include the Bearded Collie, Great Dane, Leonberger, **Portuguese Water Dog**, Standard Poodle and West Highland White Terrier. This fellowship training grant is providing hands-on training for a veterinary student interested in pursuing a research career.

D07CA-085 Pooled Association Mapping for Canine Hereditary Disorders

Gregory M. Acland, BVSc
Cornell University

UPDATE: More than 450 diseases in dogs have a genetic cause. Collectively, these diseases affect all body systems in dogs and can cause health problems ranging from mild disease susceptibility to severe illness and death. The task of researching and identifying genetic reasons for disease traits is daunting. Researchers from Cornell University are exploring a more efficient way to use the relatively new genetic tool called the Affymetrix Canine SNP Chip. They hope to develop a "pooled sample" strategy that will more rapidly identify genes for hereditary canine retinal disorders - diseases that cause blindness. This method promises to be 10 times more efficient and cost-effective than

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current methods. Currently, the blood from each dog is analyzed DNA — one sample from one dog at a time. With pooled sample strategies, scientists combine the DNA from several affected dogs into one sample and run them together. This allows more samples to be tested at a reduced cost — sort of like a screening test to first determine if the "bad" gene might be present prior to developing the test that would test for the gene in individual dogs. However, this research strategy also creates complexities of data analysis. So far, the researchers have validated the process of using pooled DNA samples and have worked through the complexities using an improved genotyping method developed at Cornell University. In addition, they have successfully mapped the chromosomal location of genes for cone rod dystrophy (a cause of blindness) in American Pitbull Terriers and Irish Glen of Imaal Terriers. The specific gene mutation for one of these forms of cone rod dystrophy has been identified, and a diagnostic test will be announced shortly.

D06CA-050 Comparison of 2 ACTH Stimulation Tests in Determining Adrenal Function in Critically Ill Dogs

Linda G. Martin, DVM
Washington State University

UPDATE: When an animal or human is struck with illness, the pituitary-adrenal system produces hormones such as adrenocorticotrophic hormone (ACTH) and cortisol to help fight the illness. ACTH is a hormone produced in the pituitary gland that stimulates the adrenal glands to release cortisol. Human and veterinary studies have shown that critically ill patients do not respond

appropriately to the stress of illness and have low cortisol and ACTH levels, which is described as adrenal insufficiency. These patients remain hospitalized longer and have higher death rates. Scientists at Auburn University are working to develop a better diagnostic test to detect this inappropriate hormonal state. They hope to determine if a low-dose ACTH stimulation test is a more accurate indicator of adrenal function in critically ill dogs than the current standard-dose ACTH stimulation test. By increasing awareness of this deadly syndrome and providing better diagnostic tests to determine its presence, many lives could be saved.

*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.

CO-SPONSORED AKC CANINE HEALTH FOUNDATION UPDATES

AKC CHF Grant #768 - Canine Lymphoma - A Collaborative Study by Veterinary Oncologists, Pathologists and Diagnostic Laboratories to Enhance the Detection, Diagnosis and Treatment of Canine Lymphoma

Ted Valli, DVM

University of Illinois

Update: Lymphoma is the most common canine cancer treated by chemotherapy and a most common neoplasm that afflicts dogs of all breeds and ages. The canine genome has remarkable similarities to that of humans and many of the malignancies that occur in dogs are also like their human counterparts especially for the tumors of the lymphoid system. The new World Health Organization system of recognizing and categorizing the many subtypes of lymphoid tumors was applied to dogs and this study showed that veterinary pathologists in a blinded test achieved an 86% accuracy in a practical application based on 300 cases of canine lymphoma. Now the many types of these tumors in dogs are being treated as specific diseases with markedly increased survival times. The second goal of this study is to demonstrate benefit from specific identification and treatment of these tumors in dogs. A total of 1000 cases of canine lymphoma have been categorized by the new WHO system with treatments tailored to the specific grade of lymphoma for each dog. Follow-up studies are ongoing to determine the impact on survival times of these specific diagnoses and treatments. The results of this study are being shared with other researchers who are employing molecular probes to determine the specific genetic changes associated with subtypes of canine lymphoma. In an amazing turn around the genetic changes associated with lymphomas are more easily determined in a pure bred dog as compared to an outbred human and thus, the results of this study has the potential to benefit both humans and dogs. Now treatment according to tumor type can increase survival in the animal companions that share our lives and environments.

AKC CHF Grant 0632: MicroRNAs and Canine Lymphoma

William C Kisseberth, DVM, PhD, DipACVIM (Oncology)

Ohio State University

Update: Lymphoma is one of the most common cancers in the dog. Current methods of classifying lymphoma neither explain nor predict its variable clinical behavior. Much of the progress in diagnosis, prognosis, and treatment of lymphoma and other cancers in people has been the result of advances in "genomics". Recently the canine genome has been sequenced, providing the opportunity to apply new genomic approaches to better understand and treat cancer in the dog. MicroRNAs (miRNA) are small non-protein coding molecules that have been implicated in humans as having an important role in cancer and a variety of other diseases. In AKC CHF Grant 0632: *MicroRNAs and Canine Lymphoma* bioinformatic methods were used to identify microRNA genes in the dog genome. This information was then used to create a novel canine-specific microRNA microarray that can be used to determine the relative amounts of different microRNAs present in a tissue or tumor specimen. When this "tool" was used to analyze normal canine tissues, it was found that tissues from different organs were characterized by distinct microRNA expression profiles, or "signatures", i.e., a characteristic pattern of microRNA expression. Dr. William Kisseberth, a veterinary oncologist at The Ohio State University College of Veterinary Medicine and principal investigator of this study, and colleagues are now using a second-generation canine microRNA microarray to analyze over 100 tumor samples from dogs with lymphoma. These results (miRNA expression profiles) are being correlated with histological diagnosis and clinical parameters. Besides generating new tools studying microRNAs in the dogs, the goals of this study are to identify canine microRNAs and their normal patterns of expression, to determine if specific histologic subtypes of lymphoma are characterized by unique microRNA expression profiles and if specific microRNAs have prognostic significance, and to identify potential targets for future investigation and therapies.

CO-SPONSORED MORRIS ANIMAL FOUNDATION UPDATE

D06CA-065 Reciprocal Relationship of PTEN and p21 in Canine Cancer

Jaime F. Modiano, VMD, Ph.D.

University of Colorado-Denver

UPDATE: Cancer is the leading cause of disease-related death in dogs, which is why Morris Animal Foundation has invested considerable resources to understand this group of diseases to develop more effective treatments. Cancer happens when genes that control the balance of division and survival cease to function normally in a cell and cause it to become malignant. One of these genes is called PTEN. The protein product of this gene generally restrains cell division, in part by controlling another protein called p21. Scientists at the University of Minnesota and at the University of California, Davis have found that using compounds to lower the levels of p21 in some tumors decreased the resistance to conventional chemotherapy drugs. They also concluded that chemoresistance per se is unrelated to PTEN and specifically associated with elevations of p21 only. The results from this MAF-funded project (co-sponsored with the PWDF) has allowed the investigators to justify efforts to move these compounds through to the next steps of clinical trials.

ONGOING RESEARCH AT VETERINARY UNIVERSITIES

Editors Note: *We intend this to be the first of a series (space permitting) of what is being done in research at various universities. This issue is about the University of Pennsylvania School of Veterinary Medicine.*

Finding a cure for cancer

Of the approximately 65 million dogs and 32 million cats in the United States, the National Cancer Institute estimates that each year roughly six million dogs and about the same number of cats will be diagnosed with cancers that share many features with human malignancies—including osteosarcoma, prostate and breast cancers, non-Hodgkin's lymphoma, melanoma, soft-tissue sarcoma and head and neck carcinoma. The sheer numbers of these cases and the many biological similarities between people and dogs make the latter especially ideal models for studying comparable human cancers. Also, because animals age more quickly than people and have shorter life spans, data from studies of new therapy methods and drugs are obtained more quickly when working with animals—knowledge that can be applied that much sooner to human treatments. And one hand (or paw) washes the other when results of large-scale research efforts for humans can also be administered to animals. Veterinary and medical oncologists, the pharmaceutical industry and academic research centers are all studying comparative oncology, the study of naturally occurring cancers in animals as models for human disease. Many areas of research offer promise: anti-cancer vaccines, bioengineering for new delivery systems, early detection.

Clinical Trials

The University of Pennsylvania School of Veterinary Medicine is uniquely positioned to be a pioneer in comparative oncology. As one of the only vet schools closely integrated with a medical school, collaboration among researchers and clinicians from diverse backgrounds and interests is stronger than at other universities. Clinical trials involving animals with spontaneous disease are perhaps the most important component of comparative oncology studies. Although considered “experimental,” treatments used in clinical trials have been previously evaluated in laboratory animals, and their safety has been demonstrated in normal dogs and cats. The hope is that these new approaches will significantly benefit the patients receiving them or produce new knowledge for others with the same condition. In fact, many effective treatments are available today because of lab research and patient participation in clinical trials.

Another Perspective

Funded by the Alliance for Cancer Gene Therapy, an ongoing clinical trial that marks a joint effort of PennVet, Abramson Family Cancer Research Institute and Children's Hospital of Philadelphia involves dogs with lymphoma, an aggressive disease of malignant lymph glands and/or cells. Because canine lymphoma is a

systemic disease—comparable to non-Hodgkin's lymphoma in people—chemotherapy usually is the recommended course of treatment. Seventy to 80 percent of dogs respond to chemotherapy at first, but the majority relapses, and the new tumors eventually become resistant to treatment. On average, survival time is one year. The trial's purpose is to assess the potential benefits and side effects of a novel type of immunotherapy (a cancer vaccine) used after remission is achieved with standard chemotherapy. The vaccine is designed to stimulate the immune system to recognize and attack the cancer anywhere in the body, preventing relapse of the original malignancy. With this, researchers hope to prolong the time during which the patient is disease-free, increase the percentage of long-term lymphoma survivors and facilitate further development of this vaccine strategy in children patients. Ryan's Oncology Section is also a member of the National Cancer Institute's Comparative Oncology Trial Consortium (COTC), a new-drug development consortium based on collaborative relationships with accredited schools of veterinary medicine throughout the country. As part of the COTC, PennVet was involved in another, recently closed trial for dogs with various non-operative malignant tumors that were treated with “tumor necrosis factor” (TNF), a cytokine naturally produced in response to infection, inflammatory conditions and tumors. The purpose of this trial in to see if it's still safe when it's given multiple times, but also to determine if it results in shrinkage of the tumor.

Banking on a Cure

At the intersection of basic and clinical research is the School's new Tumor Tissue Bank (TTB), housing tissue specimens from clinical trial participants and other patients from the Ryan Veterinary Hospital. The TTB will serve basic scientists in a wide range of research applications— from genomics and proteomics to creating vaccines for cancers—and will act as a repository of canine and feline primary tumor tissue and related biofluids, like serum and plasma. It will be linked to a searchable database that will form the basis of a university core facility aimed at providing resources for basic and translational comparative oncology research. PennVet's TTB will provide a comprehensive collection of cancer specimens with related clinical information that will enable researchers to address unanswered questions concerning the prognosis and treatment of cancer. As a multi-user resource, the TTB will be available to a wide range of cancer researchers at Penn and elsewhere. Researchers at Penn's veterinary and medical schools are already using some of the developed lines to investigate roles of certain signaling pathways in tumor development and to assess levels of expression of tumor antigens that may be targeted using novel immunotherapeutic approaches. Work with these samples will lead to a greater understanding of cancer biology and allow great strides to be made in the field of translational cancer research.

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The Portuguese Water Dog Foundation, Inc.
P.O. Box 203
Parker Ford, PA 19457-0203
Tel (610) 707-2589

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.

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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+

Deb Bender/Calimel
 Roberta W. Knight in loving memory of Slippers & Lillian
 Paulsen Family Foundation – William F Paulsen & Laura Taft Paulsen

Captain \$500-\$999

Anonymous as a Thank You to the PWDF
 A donation to improve the health and quality of life for our wonderful PWDs from the COPWDC 2009 Water Trial Raffle
 Melinda Hatton in memory of Layla our beloved PWD
 Pacific Northwest Portuguese Water Dog Club as a Thank You and In Great Appreciation to Lauren McDermott for Leading our March 2009 Dry-Land Water Workshop
 Portuguese Water Dog Club of the Twin Cities in memory of their member's dogs who crossed over the Rainbow Bridge in 2008

In memory of Barbara and Jim Schmit from their friends;
 Suzanne Bohan, Molly Bradley, Linda & Jim Carey,
 Jim & Barbara Carpenter, Rosanne & Lorri & Art Cherkinsky,
 Gail Clark, Joanne Cook, Ellen Gale, Rolli Grayson, Laurie Hardman,
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First Mate \$250-\$499

Benita Bottom-Svitchan in honor of Siena's puppies 1st
 Birthday – Toby, Bayley, Savoy, Hogan, Nala, Macia and Ryder
 Roberta Capuano & Thomas Heffernan as
 a Thank You to Jane Freeman

Susan Hopkins in memory of Bogey for JDCM research
 Carolyn Knutson

Nancy & Michael Kurkjian in memory of
 Jazz – Amigo's Mars MX MXJ XF CGC

Andrew & Laura McCullough Family Fund in memory
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 in memory of Kalista's Admiral Porter UDX2 RA OA
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Marianne Beesley in memory of Zoe and all the Bayswater dogs
 Belouro PWDz: Agua-Marhina, Callie, Indi, 50, Lora & Juno as
 a Thank You to Dr. Melanie, Eric, & 'Lord Beamer' & 'Snoopy'
 Deb Bender in memory of "Grace"

CH Tanaki Grace Note O Helms Alee

Deb Bender in memory of "Jazz" - Amigo's Mars MX MXJ XF CGC
 Shirley & Allison Blakely in memory of Sandy
 Sandra & Robert Caruso

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

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 Do Gato PWDs in honor of the PWD PSG
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 Verne Foster in memory of Martha Stern
 Verne Foster in memory of Terry & Frank's 'Nemo' & 'Halsey'
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 Vicki & Ken Goldberg thanking Ginnie Santoli &
 Carol Mattingley for always being there for them
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 in memory of Lily Graham; Lily, you made it almost to
 14 years, you were so much loved & will be missed
 Francis C. Grant III wishing a happy birthday to Lulu & JT
 Elena Gretch, CPDT and Harry Chernoff In Honor Of Splash & Diver
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 Gabby - 2 funny Porty Clowns
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 Melinda Hatton - A thank you to our PWD, Layla, who we adore
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 Ken & Caren Stanley in memory of Seltzer & Splash

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

Barbara Strauss wishing Joy a Happy Birthday!
 Diana & Jay Talsania in memory of Stryker
 The Tanriverdi Family in honor of Kalista's New Aqua
 Kurt & Lore Tesnow
 In memory of "Amigo's Happy Days" affectionately called "Zoey"
 Barbara Weisman in memory of Sea Angel's Chloe Hannah
 Julie Woods CnSand Puppy Pledge
 Geri Zuckerman in memory of Bob White

Sailor \$50-\$99

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 Maxine & Hannah Brainer in memory of our boy Harley
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 Ch Pennrico's Southern Cross (Chrissy)
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 Kris Cofield & CnSand PWDs in honor of the PWD PSG
 In memory of Barbara Schmidt and the Sunnyhill
 Kennel from the Colorado Portuguese Water Dog Club
 Julie Conger
 Jo-Ann Curnow in honor of the PWD PSG
 Alvaro O. & Ilse de Granda in memory
 of Quilha (Benhil's Stillwater Quilha)
 Libby Devlin
 Herb & Jeri Foster in memory of Hunters Bagaco de Camlin "Boo"
 Verne Foster in memory of 'Berry' & 'Cruiser' owned
 & loved by Lynn & John Marcinek & Family
 Mary Goodman in honor of the PWD PSG
 Meg Harper in honor of Annie & Bentley
 Ann W. Harrison
 Beverley Ironside in memory of Max & Ghillie
 Patricia Joaquin as a Thank You to Liz Shannon & Ginnie Santoli
 John & Sue Jobe in memory of Ch Laurelwood's All That Jazz
 Terry Johnes in honor of the PWD PSG
 Pam & Tom Jones in memory of Ch Haleakala's Sailor's Dream
 Scott & Liz Kantor
 Klimas Family in memory of Baron, Lizzie & Glory
 Ralph & Karla Klump in honor of Abby
 Krushel family in memory of beloved Cody
 Nancy Kurkjian in memory of Martha
 Stern; Thank you Martha, for everything
 Karen & Randy Latham in honor of the PWD PSG
 Karen & Randy Latham in memory of Bob
 Hollander's Simba, Ch Rough Rider's Just Add Water
 Warren Lloyd in honor of the PWD PSG
 Warren Lloyd in memory of Kwik Do
 Condinho and Windruff's Riptide
 Joe & Sylvia Lopez in memory of Martha Stern
 Keith Mabrey
 Tom & Tina March
 Lynn & John Marcinek in memory of Martha Stern
 Marsha, Douglas, Pearl & Mousse Marcus in
 memory of Dixie, Daisy, Pokey & Paisley
 Joe & Paula Markiewicz in honor of The Girls - Indy & Halle
 Shelley & Jason Mart
 In memory of John Bumiller with Love from Ursula, John & Quinn

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

Janet & Andrew Masetti in honor of Brinca & Mac
 Stella & Charlotte in memory of Gus, our pal
 Norm & Jan Mosher in memory of Bob
 White, loving husband of Margaret White
 Susan Myrick, Pickwick in memory of John Bumiller, Sweetmeadow
 Susan Myrick, Pickwick in memory of
 Pennkrest Havana Daydreamin "Griffin"
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 Sherrill Nelson in honor of Pennrico Total Eclipse
 Kathleen Palumbo in memory of 'Rosco' Ch Starlite's Agua Cruzador;
 my life has been unmeasurably blessed to have a Rosco puppy
 Luca & Nautie in honor of the PWD PSG
 Pouch Cove in honor of the PWD PSG
 Carole Prangley-Mclvor in memory of "Ginny" - Virginia Oldrin
 Carole Prangley-Mclvor in memory of "Skyler" Miller-Riley
 Bill & Marlene Rebello
 Dan Recht & Elaine Selsberg in memory of Barbara Schmit - Sunnyhill
 Sandra Rendon in memory of Martha Stern
 Janine Richter in honor of "Puddles"
 Rio Salgado Portuguese Water Dog Club in memory
 of "Abby" Ch Alto Mare Abadia De Belavista
 Rio Salgado Portuguese Water Dog Club in memory
 of "Oliver" RoseKnolls Oliver Whitehawk
 Rio Salgado Portuguese Water Dog Club in memory
 of "Nikita" Piedelai Gotinha de Chuva
 Rio Salgado Portuguese Water Dog Club in memory
 of "Rosa" Ch Planalto Rosa Dos Ventosta
 Angela Robinson in honor of the PWD PSG
 Barry & Judy Roland in memory of Robert K. White
 Congratulations to Susan & Tex on your AKC Championship
 General S. W. Sennewald & S. Horne in memory of Martha Stern
 Charles & Marge Schreiber in memory of Martha Stern
 Charles & Marge Schreiber in honor of Laura Taft Paulsen's first
 home grown champion, "Harry" Ch Far Away Harry Of Gryffindor
 Kathleen Skeels thanks the PWDF!
 Suzanne Steele in honor of the PWD PSG
 Stowaway PWDs in honor of the PWD PSG
 Martha Thomas - ODYSEA in honor of the PWD PSG
 Tabitha Thompson in honor of the PWD PSG
 United Sunshine State PWD Club in appreciation of
 Verne Foster for the artwork she designed for
 our Splash Away at Callaway water trial in August
 Nancy Vencill in memory of Ben
 Nancy Vener in memory of Cody
 Mrs. Rosemary Walmsley in memory of Ben
 Janet Warnsdorfer & Galaxy PWD's in
 memory of Galaxy's Deuce's Wild (Noah)
 Lisa Wiley in honor of the PWD PSG
 The Wolcoveick Family in memory of Alice Vicha and "Frannie"
 Bob & Charlene Wolfe in honor of
 "Rainy", Roughrider's Glacier Rainbow

Deck Hand up to \$49

Paula Adamson in honor of Einstein and Thor
 Cecille Balizet in memory of Martha Stern
 Gail Browne-McDonald in memory of
 CH Alto Mare Le'vado Nick Of Time CD RN CGC

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

Kathy Denote in Honor of the PWD PSG
 Karen Derr
 Anne Favoriti in honor of the PWD PSG
 Barbara Floch in honor of the PWD PSG
 Cindy Fooshee in honor of Maximus
 Gillian & Frank Goldschmidt in honor
 of Gayle & Frank's Chauncey, ADC
 Mary Goodman in memory of Sweetie
 Betty Gray in honor of the PWD PSG
 Lee & Susan Haygood in memory of Karen's
 Ch Planalto "Rosa" Dos Ventos
 Terry Herman in honor of the PWD PSG
 Linda Hinkle in honor of the PWD PSG
 Linda & Krista Hunt in memory of MACH
 Ch Downeast Song of the Sirens 'Gema'
 Linda & Krista Hunt in memory of Ch Mariner Flagship
 Jetty VCD2 UD RE MX MXJ CWDX GROM
 Linda & Krista Hunt in honor of Kalista's
 Icebreaker CD RA WWD for earning his WWD
 Linda & Krista Hunt in honor of Kalista's
 Irresistibly Tandy RN NA AWD for earning her AWD
 Linda & Krista Hunt in honor of Kalista's
 It's All About Me NA NAJ WWD 'Iggy's' WWD
 Barbara Lachney in honor of the PWD PSG
 Martha Martin & Gary Stern in memory of
 Robert White, beloved husband of Margaret White
 Michele & Jim Montgomery in honor of the PWD PSG
 Heather and Rob Morrissey in honor of
 Rockmere's Isabella do Mar 'Bella'
 Glynn & Jamie Moses in Memory in memory of Martha Stern
 Louise Mowbray
 Susan Myrick, Pickwick in memory of Susan Hayes McMahon
 Susan Myrick, Pickwick in honor of the PWD PSG
 Peninsula Kennel in honor of the PWD PSG
 Stan & Milarie Rude in memory of Kramer
 Stan & Milarie Rude in memory Lottie Da
 Martha Ruskai in honor of the PWD PSG
 Martha Ruskai & Susan Vicha in honor of the PWD PSG
 Martha Ruskai in memory of Alice Vicha
 Santa Clara Dog Training Club in honor of
 Ch. Alto Mare Le Vado Nick of Time CD RN CGC
 Charles and Marge Schreiber in memory of "Dexter"
 CH Watermark Below Deck CD, (U-CD), RA, OA,
 NAJ, NAP, NJP, WWD, AOM, GROM, CGC
 Charles & Marge Schreiber in memory of "Gema"
 MACH Ch. Downeast Song of the Sirens, MX, MXJ
 Charles and Marge Schreiber in memory
 Of "Kai" Ruff-Wave The Lionhearted
 Renée K. Smith in loving memory of Ch Benhils Stillwater
 Chiquita CD RN "Chiqui" Microsoft Matching Grant
 Patricia Snyder in honor of the PWD PSG
 B. L. Stanek in honor of the PWD PSG
 Eileen Dowd Stukel
 Kim & Jenny in memory of Shelly - Downeast She Sells Seashells
 Cynthia Thorson
 Elaine Washek in memory of Spence
 Penny Yamamoto