

The
ARISTOCRAT

Summer 2020



A Publication of the Borzoi Club of America, Inc.

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for this issue
submitted by &
In Memory of
Joy Windle

The 2019 AKC Canine Health Foundation National Parent Club Canine Health Conference

Submitted by Nancy Hopkins, Health Chair

The CHF National Parent Club Canine Health Conference is held every two years and brings some of the top scientists conducting research of interest to dog owners and breeders.

2019's Parent Club Canine Health Conference was divided into five topics: Nutrition and Disease, Autoimmunity and disease, Infectious disease and canine cancer, approaches to genetics and breed diversity, and genetics and disease. The last three articles focused on nutrition and disease, autoimmunity and disease, and infectious disease and canine cancer. This summary focuses on approaches to genetics and breed diversity and genetics and disease.

Approaches to genetics and breed diversity and genetics and disease

Harmonization of Genetic Testing and Breed-Specific Resources

Brenda Bonnett, DVM, PhD, Consulting Epidemiologist and CEO of the non-profit International Partnership for Dogs (IPFD). Lead Scientist at Morris Animal Foundation (2010) where she assisted in the development of what is now known as the Golden Retriever Lifetime Study.

Currently, there is no quality control system for DNA testing in veterinary medicine leaving the industry with no standards, rules, or regulations about who can offer tests or the conditions under which those tests should be run. In addition, the purebred dog fancy is left with many questions while trying to keep up with the rapidly changing developments in genetic testing. How is one to know which test providers/labs provide reliable test results? Which tests are important for one's breed and which should be ignored? Should some tests be ignored?

These are valid questions and concerns as recent history in the industry can demonstrate. As recently as five to two years ago there have been too many new DNA testing labs with a focus on single gene tests. In some cases, discovery has outpaced the validation of the test from discovery to application leading to lack of reliability of the tests.

Further, throughout the fancy there has been a shift from resistance to testing to an overemphasis on DNA tests over all other health evaluations. Breed clubs and breeders adopted tests early without adequate validation for their specific breed/disease situation. And in some cases there have been a misunderstanding of test results and/or an inappropriate application of those results.

The International Partnership for Dogs (IPFD) is working to develop tools and resources that will give breeders and breed clubs practical support when navigating through these testing questions and will allow an enhancement of collaboration across researchers, veterinarians, breed clubs and kennel clubs. This tool, the Harmonization of Genetic Testing for Dogs (HGTD), is a database of genetic test providers who are sharing details about their "quality" voluntarily. The HGTD provides for the critical evaluation of tests and test providers.

The HGTD is located on DogWellNet.com along with a continuing enlarging body of information to support genetic counseling. In the future there will be access to an "Expert Panel" program composed of internationally renowned experts that provides collective advice on issues/controversies of genetic testing. Also planned is a Health Strategies Database for Dogs (HSDD) which will help breeders/clubs identify the tests best for their breeding purposes/long-term breed health that will be searchable by breed, condition, and country.

Please take some time to go through the websites listed below. The HGTD is continually updating and developing, so look now but come back later!

For more information:

- Information on the International Partnership for Dogs through the Canadian Kennel Club information portal: <https://www.ckc.ca/en/About-the-CKC/International-Partnership-for-Dogs.aspx>
- Harmonization of Genetic Testing for Dogs: <https://dogwell-net.com/ctp/>

To see Dr. Bonnett's IPFD web page with a link to a list of her blogs: <https://dogwellnet.com/profile/4-brenda-bonnett/>

Recent research on the CHF Website:

- 02328-A:** Harmonization of Genetic Testing for Dogs
- Status is open. <http://www.akcCHF.org/research/research-portfolio/02328-A.html>

Cardiac Disease of Purebred Dogs - Genetics & Beyond

Joshua A. Stern, DVM, DACVIM (Cardiology), Associate professor of cardiology at the University of California, Davis and the Small Animal Clinic Director for the Veterinary Medical Teaching Hospital at UC Davis. Dr. Stern is also a member of the Center for Companion Animal Health, an associate editor for the Journal of Veterinary Cardiology and a Small Animal Advisory Board Member for the Morris Animal Foundation.

Continued on page 9

New Title Holders

Earned January, February, March 2020

Submitted by K.C. Artley, kcartley@earthlink.net

AKC Conformation Champions (CH)

CH Aldemoor N Imagine The Great Scout RN (D) HP50199203, 21-Oct-2015, by GCH Jubilee Glacier Ozlandia SC FCH & DC Imagine Chryseis Of Troy RN SC, br/ow: Peri Neill & Sandra Simmons-Gamble
CH Avalon Katinka Under The Mistletoe (B) HP54859108, 15-Dec-2017, by GCH DC Avalon Druid Dance Willowind FDC SC BCAT THD CGCA CGCU TKN & Coburn's Serenity Prayer SC, br: Sandra Moore, ow: Keishla Brito
CH Blackmoor When Stars Align At Eidolon (B) HP56793601, 15-Oct-2018, by CH Marakhoff Paavel Sedona & CH Blackmoor Sedona Hearts On Fire, br: Kim Sime & Karen Wilken & Christina, ow: Connie Taylor & Daniel Taylor & Karen Wilkin & Christina Hart
CH Chase N' Dreamz Girl On Fire (B) HP53840409, 26-Jun-2017, by CH Windor Dragon's Wrath V Gladkii Vetr & CH Coburn's Golden Trinket V Chasendreamz CGC, br: Stephanie Parker & Patricia Shaw & Roy Silguero & Curtis Judd, ow: Dora McDonald & Stephanie Parker
CH Del Sol Ursa Major (D) HP54746201, 12-Oct-2017, by CH Del Sol Prince Charles & CH Del Sol Polar Vortex Ice, br/ow: Susan Van De Water
CH Dunroving Adventure Awaits (B) HP57235302, 04-Dec-2018, by GCH Windrift Wild Accusations JC & GCH Phaedra Ushara DE CGC, br/ow: Corissa Fanning
CH Dunroving Arlo Guthrie (D) HP57235302, 04-Dec-2018, by GCH Windrift Wild Accusations JC & GCH Phaedra Ushara DE CGC, br/ow: Corissa Fanning
CH Elance Ruffles And Truffles (B) HP54842704, 12-Sep-2017 by CH Elance Master And Commander & Elance Truth Or Dare, br: Cherie Hunchak, ow: Kay Cassella & Cherie Hunchak
CH Estet Classic Luchezar (D) HP54865701, 05-Sep-2017, by Cavallierik Disco Inferno At Estet Classic & Estet Classic Vsemila, br: Olga Gorbatsjova & Natalie Kasements, ow: Diane & Mike Bilak
CH Glacier's Maybe She's Born With It (B) HP55862501, 30-Apr-2018, by CH Elance Master And Commander & CH Glacier's Dream Within A Dream, br: Lisa & Allan

Durand, ow: Wendy Wilkinson & Lisa Durand
CH Folly Quarters Windcatcher (D) HP47578201, 09-Jul-2014, by Ravenna Jafinn Clouds In Water & CH Folly Quarters' Zosia JC, br/ow: Maggie Rice
CH Folly Quarters Windhunter (B) HP47578205, 09-Jul-2014, by Ravenna Jafinn Clouds In Water & CH Folly Quarters' Zosia JC, br/ow: Maggie Rice
CH Horse And Hound Full Of Surprise (B) HP53998407, 01-Jul-2017, by GCHG Konza-Plum Creek Bugatti At Elance ROMX-C & GCH Horse And Hound Paimpont, br: Pamela Buffington, ow: Pamela Buffington & Loraine Gough
CH Horse And Hound-Kyrov Make Your Mark (D) HP53957601, 10-Jun-2017, by CH Horse And Hound Custom Made & CH Kyrov-Katz My Oh My At Horse And Hound, br: Pamela Buffington & Amy Sorbie, ow: Pamela Buffington
CH Iorek's Supreme For Oberon (B) HP55904302, 09-Mar-2018, by Lynx Ray Of Shine & Iorek's Honey Honey, br: Anna Akerstrom, ow: Melissa & Dean Eelman
CH K-C Windsheer Crazy On You (B) HP54094107, 05-Jun-2017, by CH Highgarden Téine Simply Faberge JC & DC Windsheer K-C Lovin' Touchin' Squeezin' MC, br: Kasey Parks & Leah Lanier & Amy Sikula & Dale Parks, ow: Amy Sikula & Kasey Parks & Dale Parks
CH K-C Windsheer Send Her My Love SC (B) HP48051910, 24-Aug-2014, by GCH Timeless One Of These Nights & DC Windsheer K-C Lovin' Touchin' Squeezin' MC, br: Kasey Parks & Leah Lanier & Dale Parks, ow: Stephanie & Michael Parker
CH Karitonova's Grand Affaire At Foxfire (B) HP54157207, 17-May-2017, by GCHS Belisarius Jp Hat N Tails & CH Majenkir Bookstor Timeless Glamour At Karitonova, br: Kimberley Janek & Robert Urban & Robert Janek & Megan Anderson, ow: Megan Anderson & Robert Urban
CH Kirov Windrift Fly So Free SC (B) HP49909001, 29-Jul-2015 by CH Kachina-Valeska Dream Dancer JC SC ROM & GCH Kirov Embrujada RN JC FCH CC CM ROMX, br/ow: Barbara Ewing & Nancy Reimer
CH Korsakov's Portrait Of Love (B) HP51527204, 20-Apr-2016, by Lynx

Seri Savitskij & CH Korsakov's Vanilla Crème ROM-C, br: Patricia Triandos & Linda Harvey & Jane Bishop, ow: Patricia Triandos & Jane Bishop
CH Krasivi Arctic Tern CGC (B) HP53225602, 31-Mar-2017, by GCH Phaedra Mig Volschebnivitch & CH Krasivi Charodeika, br/ow: Yoriko Dixon & Lois Schultz
CH Medovyi Iz Sudarevichei JC (D) HP56707101, 20-Mar-2018, by Edin Zlaty Iz Sudarevichei & Vega Shelk Love Story At Sudarevichi, br: E Nefedova, ow: Lois Hough & Emma Lloyd & Anna Calabrese
CH RunTuff RiverRun Thunder Funk (D) HP55011905, 21-Dec-2017, by GCH DC Téine Zharkov Lucky Number SC & DC RiverRun Oxota Fire In The Glen Avalon JC MC CGC FCH SGRC, br: Kristen Suhrenbrock & Karla Smith & Tina Wismer & Tim Williams, ow: JJ Moore
CH Sedona Malachite (D) HP54361806, 27-May-2017, by GCH Sedona Bariatinsky & CH Sedona Deja La Meilleure, br: Tamara Carey, ow: Carolyn Mewborn & Tamara Carey
CH Svora's Golden Tiara (B) HP53871005, 09-Jul-2017, by GCHG Konza-Plum Creek Bugatti At Elance ROMX-C & CH Svora's Secret Heiress, br/ow: Shirley McFadden
CH Sylvan Elance Cosmic Dance Of Shiva (D) HP56623209, 06-Aug-2018, by GCHB DC Sylvan Pimlico CDX BN RE SC BCAT CGCA CGCU TKN & GCHB Sylvan Elance Summerlane's Limelight, br Patti Neale & Christopher Neale & Cherie Hunchak, ow: Leslie Bird Torre
CH Téine Fendi Sandals RN JC CGC (B) HP56255405, 17-Jul-2018, by CH Borzowski's Magical Mirage JC & FC Téine Zharkov Kismet SC, br: Anne Midgarden, ow: Sheryl Amburgey & Harry Van Vliet
CH Val-Thor Golightly Cha Cha Slide (B) HP54353102, 27-Sep-2017, by GCH Golightly Rosa Vetrov Eirwen & DC Katushka's Breakfast At Tiffanys At Val-Thor SC, br: Betty De La Rosa & Marcella Zobel, ow: Betty De La Rosa
CH Valkyrie Vom Wolfendans (B) HP56182504, 08-Jun-2018, by GCH Golightly Rosa Vetrov Eirwen & Secret Garden Genesis Von Wolfendans, br/ow: Benaminh Le Wolfendans

Continued on page 8



BCOA 2019

TOP CONFORMATION BORZOI



**MBISS MBOSS GCHG MIELIKKI HI NOTE
SECRET AGENT MAN RN, SGRC**
Owners: Renee McCartin & Janice Tyler



BCOA 2019

TOP BEST OF OPPOSITE SEX BORZOI



**BIS BISS GCH MAJENKIR THUNDERSTRUCK
WHITE STORM RISING**
Owners: Marie Yoesel & Mark Yoesel



BCOA 2019

BREEDER OF THE TOP CONFORMATION BORZOI



**RENEE MCCARTIN
AND MARGARET STROTHERS**



BCOA 2019

BCOA TOP BORZOI OWNER/HANDLER



GCHB CH SOYARA'S DEVILISH DELILAH
Owners: Prudence G Hlatky & Gregory G Hlatky



BCOA 2019

BCOA TOP AKC NOHS BORZOI



GCHB ZABAVA NOW OR NEVER

Owners: Irina Terra and Kristina Terra



BCOA 2019

TOP AKC LURE COURSER



FC STARSWIFT BLACK LIGHTNING'S LEGACY SC

Owner: Jamie L. Bobrowski



BCOA 2019

TOP ASFA LURE COURSER



**GCH DC C'LESTIAL RED LANTERN @ RYHKA,
LCM2, V-LCM2, LCX, SORC2, SC**

Owner: Diana Darling



BCOA 2019

TOP LGRA RACER



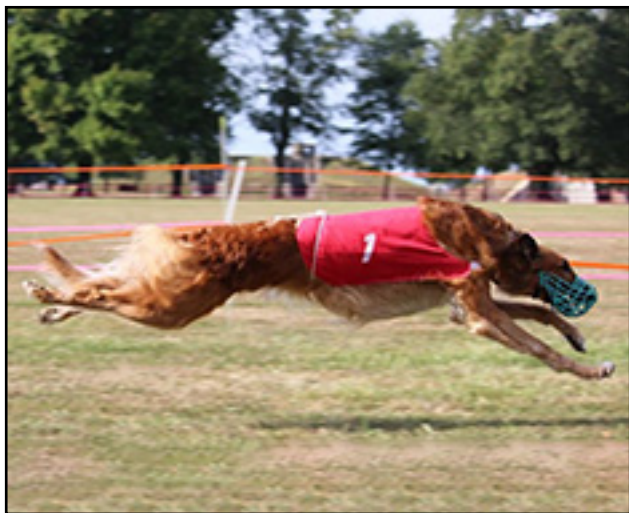
MIELIKKI GETT OFF SGRC2

Owners: Renee McCartin and Kathleen Poneatowski



BCOA 2019

TOP NOTRA RACER



CH AVALON KEEP ON DANCING DCAT, GRC, ORC
Owners: Susanne Cecere and Sandra Moore-Doby



BCOA 2019

TOP OPEN FIELD COURSER



AVALON PERLOVA READY SET GO
Owner: Linda Turner



BCOA 2019

TOP OBEDIENCE BORZOI



FC TÉINE MIRAGE AT RIJU SC, CDX, BN, GO, SHDN
Owner: June Mintchell



BCOA 2019

TOP VERSATILITY BORZOI

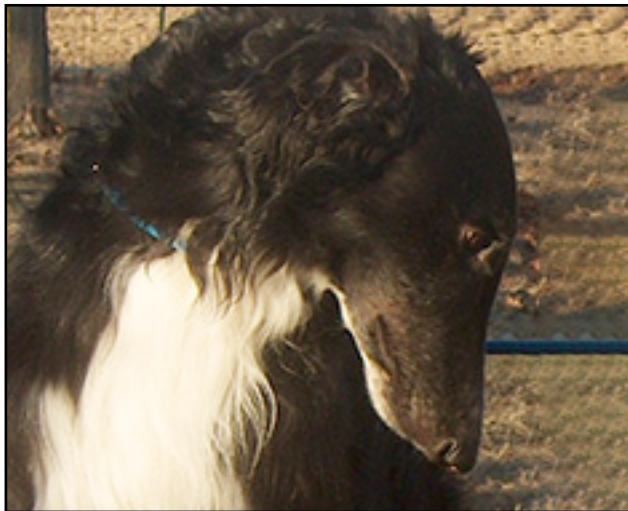


CH HEMLOCK HOLLOW ARUZIA ENJOY THE JOURNEY BN RE NA NAJ NAP NJP OJP JC
Owners: Chris Danker and Paul Danker



BCOA 2019

TOP HIGH-SCORING RALLY BORZOI



**DEL SOL RIJU KEEPER OF THE FLAME JC, RN,
SWE, SCME, SIME, SEME, SHDN**
Owner: June Mintchell



BCOA 2019

TOP AGILITY BORZOI



**CH MACH HEMLOCK HOLLOW'S JOURNEY
TO RULE SIXTY-TWO, BN, RN, JC, MXS, MJS,
CGCA, TKA, DJ, DN, CGCU, ATT**
Owners: Lou Avant and Colleen Allen



BCOA 2019

TOP JUNIOR HANDLER



MOLLY FORSYTH

NEW TITLE HOLDERS CONTINUED FROM PAGE 4

Grand Champion (GCH)

- GCH Belisarius Jp Wild Rumpus (B) HP52567002, 22-Feb-2016, by GCHS Jubilee Tadbit O'Brindle Mist & CH Belisarius Jp Amazing Grace, br: Kyoko Ozeki, ow: Toshie Ohya
- GCH Crown Jewel Zhivago Of Majenkir (D) HP51747002, 13-May-2016, by GCHB Jantar Deja Vu At Majenkir & GCHP Crown Jewel Tatiana ROM-C, br/ow: Jean Durdin
- GCH Estet Classic Timofei (D) HP52994203, 17-Oct-2016, by Donskoi Vigow & Estet Classic Monisto, br: Olga Gorbatsjova & Natalie Kawements, ow: James Modica, Jeffrey Winton & Olga Gorbatsjova
- GCH Jubilee Sambuca Seven (D) HP54812907, 11-Nov-2017, by GCH Estet Classic Yarolik At Chrysalis & GCHB DC Jubilee Drop Of Golden Sun SC FCH, br/ow: Cindi Gredys
- GCH Justart Hot Commodity (B) HP49004207, 24-Jan-2015, by CH Taugo's Ulric & CH Majenkir Hunter's Dawn, br: Stuart McGraw & Justine Spiers & Karen Staudt-Cartabona, ow: Stuart McGraw & Kalista Ganser & Justine Spires
- GCH K-C Windsheer Dockside Dolls (B) HP43635606, 02-Aug-2012 by GCH DC K-C Windsheer Stayin' Alive CD RN SC CGC FCH TDI ROMX-C & CH Nickolai Olovo Alyss CD ROM-C, br: Kasey A Parks & Leah N Lanier & Dale Parks, ow: Thomas Curtis
- GCH Kaara Divinae Ventus (B) HP42096203, 30-Dec-2011, by Stillwater Black Bart & Adams' Sabrina-Ferruginous In Flight, br: Deborah Adams, ow: Ljubica Bogic & Ivana Karapandzic
- GCH Kirov Windrift Speed To Spare (B) HP51410206, 02-May-2016

Continued on page 17

There are over 1000 mutations that lead to human heart disease. These include cardiomyopathies, channelopathies, and congenital disorders. Congenital disorders include such problems as subvalvular aortic stenosis (or sub aortic stenosis), patent ductus arteriosis, pulmonic stenosis, and tricuspid valve dysplasia.

Subaortic Stenosis (SAS)

Subaortic stenosis is an area of narrowing just underneath the aortic valve. The severity of the problem can vary from only a mild narrowing causing almost no difficulty to more severe obstruction of flow into the aorta from the heart. Depending on the severity, it can cause a pressure overload on the left ventricle. The primary lesion is at the aortic subvalvular ridge or ring. Secondary pathology can include left ventricular hypertrophy, aortic insufficiency, post-stenosis dilatation of the aorta, and mitral valve regurgitation. Also, a “brightness” of the ventricle

Pulmonic Stenosis

Pulmonic stenosis is the same problem as SAS but on the right side of the heart. Again, the narrowing causes a pressure overload, this time on the right ventricle. The primary lesion has multiple etiologies that include fusion (most common) or thickening of the pulmonic valve at either the subvalvular or supra valvular ridge/ring. Secondary problems can include right ventricular hypertrophy and pulmonic insufficiency. Outcomes of this disease are arrhythmias, exercise intolerance, syncope, sudden death, right sided congestive heart failure, cyanosis and heart disease. Life expectancy for severe pulmonic stenosis without treatment is about 2 years, this can be extended to 3-5 years with the use of beta blockers. Again, as with SAS, mild pulmonic stenosis can be clinically silent.

The prevalence of pulmonic stenosis was 0.4% overall at the UC Davis Veterinary Medical Teaching Hospital and 6.1% at

Known prevalence, heritability, and gene location of four breeds with SAS (table below):

Breed	Mode of Inheritance	Prevalence if Stated	Chromosome Location
Bulldogs	Autosomal Recessive	6.5%	Chromosome 21
Golden Retrievers	Autosomal Recessive		Chromosome 13
Rottweiler	Autosomal Recessive		Chromosome 38
Newfoundland	Autosomal Dominant		Chromosome 13 (but not at the same place as Golden Retrievers, though close)

heart muscle may be seen which is an indication of ischemia of the muscle. Outcomes for this disease include arrhythmias (due to heart muscle ischemia), fainting, sudden death, congestive heart failure (due to back flow of blood), and increased risk for aortic valve endocarditis. In cases of severe untreated SAS life expectancy is about 19 months. This can be extended to 4-5 years through the use of beta blockers such as atenolol. Mild SAS may be clinically silent with the only sign a heart murmur which can easily be missed.

Prevalence of SAS was 0.3% overall at the UC Davis Veterinary Medicine Teaching Hospital with 4.7% for US Davis Cardiology between 2007 and 2017.

An important thing to note that was not included in this presentation — Dr. Stern stated in a presentation on the subject in Newfoundlands at the last Parent Club Conference that it was important to think of all levels of SAS severity as genetically equal. Dogs who have very minor, subclinical cases of SAS can produce puppies with severe SAS. So, just because a dog has a minor case of this abnormality that produces no clinical symptoms at all it does NOT mean the dog is clear of the disease and cleared for breeding. At this conference, I asked Dr. Stern privately if his continued research on SAS had caused any change in his recommendation to withhold any dog with any level of SAS from breeding and he answered “No” with no reservations.

UC Davis Cardiology between 2007-2017. Bulldogs inherit pulmonic stenosis through an autosomal recessive gene that is located on chromosome 1. There is also a secondary lesion of a coronary artery anomaly, though this appears to be genetically distinct. French Bulldogs have a homozygous mutant at the same region on chromosome 1 as seen in Bulldogs. The research on this is not complete, but there seems to be a suggestion of a gene network that governs outflow track development.

Atrial fibrillation (AF)

Atrial fibrillation is an abnormally rapid contraction (tachycardia) or the atria (supraventricular) which leads to ineffective contraction of the atria. AF is a very common arrhythmia in dogs most commonly associated with severe atrial chamber dilation. The hallmarks of AF on an ECG are: no p-waves in all leads, irregularly irregular rhythm, and supra ventricular QRS-T complexes. Sometimes F waves are seen. These are variable baseline oscillations or undulations.

Irish Wolfhounds have a mean AF heritability of 69%. In this breed AF has been found to be autosomal dominantly inherited.

Dilated Cardiomyopathy (DCM)

Dilated Cardiomyopathy essentially is a big dilated left ventricle that does not contract as well as it should.

In Dobermans the cause is a problem with mitochondria.

Continued on page 12

BCOA 2020 Obedience Rankings

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Corrections to June Mintchell, PO Box 31, N Manchester, IN 46961, rmintchell@yahoo.com

The first person listed as the dog's owner by AKC must be a BCOA member to be included. To be ranked #1 overall at year's end, a dog must have at least 3 QS from the regular classes and all QS from the regular classes will be averaged for that dog. To be ranked #1 in any particular class at year's end only 1 score is needed.

NOVICE

1. Zabava Dendy Let It Be Me CD, BN, RI, THDA, CGCA, CGCU, TKN, J Browne..... 188.5 1

BEGINNER NOVICE (optional titling class)

1. Fiery Run Winter Soldier RN, E Tolley & D Nutting 186 2

BCOA 2020 Rally Rankings

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Corrections to June Mintchell, PO Box 31, N Manchester, IN 46961, rmintchell@yahoo.com

The first person listed as the dog's owner by AKC must be a BCOA member to be included. To be ranked #1 overall at year's end, a dog must have at least 3 QS from the regular classes and all QS from the regular classes will be averaged for that dog. To be ranked #1 in any particular class at year's end only 1 score is needed.

Started in 2016 was the offering of an OVERALL #1 dog in rally. Same rules apply to rally as to obedience. A minimum of 3 scores are needed to be the OVERALL #1 dog. All of the dogs scores from the REGULAR rally are averaged so if a dog competes in more than level all of his scores are rolled into one. Just like obedience, only 1 score is required to be #1 in any given class.

RALLY EXCELLENT

1. GCH Hemlock Hollow Aruzia Desertwinds Journey BN, RE, JC, CGC, W & T Merendini 81.67 6

RALLY ADVANCED

1. GCH Hemlock Hollow Aruzia Desertwinds Journey BN, RE, JC, CGC, W & T Merendini 90.8 5

2. CH Islehaven Sentinel BN, RI, FDC, SCN, SIN, SBN, SHDN, CGCA, CGCU, TKE, L Beisswenger .. 78 1

RALLY NOVICE

1. CH Téine Fendi Sandals RN, SC, CGC, S Ambergey & H Van Vliet 83.33 3

RALLY INTERMEDIATE (Optional titling class)

1. CH Sedona Reignstorm Willow Wind BN, RN, D Ferrentino & T Carey 98 1

2. Fiery Run Winter Soldier RN, E Tolley & D Nutting 90 2

3. GCH, DC Wildhunt Quantum Singularity Of Ryhka BN, RI, FDC, SC, SWN, SIA, SBA, DEA,
DMA, CGCA, CGCU, TKP, A Duncan & D Darling 83 2



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For additional information contact Carol Enz

Mail order forms to Carol Enz, PO Box 876, Ramah, NM 87321

Make checks payable to: BCOA 2020

E-mail order forms to: kachinaborzoi@gmail.com

There are several mutations that can cause DCM. Other breeds besides Dobermans have problems with this type of heart disease including Standard Schnauzers and Welsh Spaniels.

In Dobes, there are two identified genes that cause DCM. Each gene causes some differences in the presentation of the disease though they are indistinguishable phenotypically. These genes are the PDK4 gene and the Titin Gene (TTN), with TTN apparently being the most important. There are still Dobes with DCM who have neither of these two genes.

DCM etiologies can be either familial/genetic, nutritional, metabolic, viral, or immune mediated. DCM with a metabolic cause is uncommon. The number of nutritionally caused DCM has gone through the roof over the last few years. Research is still ongoing to identify the specific nutritional component of the foods causing the current spate of diet induced DCM.

Pharmacogenomics

Pharmacogenomics is the study of what your DNA does with reference to different drugs. An example of this is with Pulmonary hypertension. In some dogs Viagra (Sildenafil) is an effective treatment. But dogs with certain genetic profiles do not respond as well to this treatment.

OFA ACA Screening

When using the OFA Advanced cardiac screening exam (ACA) please use this to help cardiologists identify diseases that are more common than were originally thought. It is important that a true cardiac clearance is not by auscultation alone. Use the OFA ACA to identify early disease. Remember with breeding animals, more data is never a bad thing. And contribute samples to genetic research either directly or through the CHIC DNA Repository. This will help with drug discovery.

Articles of interest:

- Congenital Cardiac Outflow Tract Abnormalities in Dogs: Prevalence and Pattern of Inheritance from 2008 to 2017. <https://www.frontiersin.org/articles/10.3389/fvets.2019.00052/full>
- Canine Atrial Fibrillation: <https://www.vetfolio.com/learn/article/canine-atrial-fibrillation>

Websites of interest:

- A Purina Pro Club article on SAS in Rottweilers: <https://www.purinaproclub.com/resources/dog-articles/health/sas-research-in-rottweilers-may-lead-to-gene-mutation-discovery-new-therapy>
- Cornell University's informational page on SAS: <https://www.vet.cornell.edu/hospitals/companion-animal-hospital/cardiology/aortic-subaortic-stenosis>
- A CVCA informational page on SAS with a nice Echocardiogram picture: <https://www.cvcavets.com/diseases-conditions/subaortic-stenosis/>

- Cornell University's Pulmonic Stenosis in Dogs website: <https://www.vet.cornell.edu/hospitals/companion-animal-hospital/cardiology/pulmonic-stenosis-dogs>
- UPENN's informational page on Pulmonic Stenosis: [https://www.vet.upenn.edu/docs/default-source/ryan/cardiology-brochures-\(ryan\)/understanding-pulmonic-stenosis.pdf?sfvrsn=21fa0aba_0](https://www.vet.upenn.edu/docs/default-source/ryan/cardiology-brochures-(ryan)/understanding-pulmonic-stenosis.pdf?sfvrsn=21fa0aba_0)
- Washington State University's DCM informational page: <https://www.vetmed.wsu.edu/outreach/Pet-Health-Topics/categories/diseases/dilated-cardiomyopathy-in-dogs>
- Excellent client informational pamphlet developed by Texas A&M University: <https://vethospital.tamu.edu/hospital/wp-content/uploads/sites/15/2018/01/cardiology-DCMHalfBooklet.pdf>

To see Dr. Stern's university web page with a link to a page with his recent papers: <https://ccah.vetmed.ucdavis.edu/areas-study/genetics/josh-stern-cardiac-genetics-laboratory>

Recent research on the CHF Website:

- 02327-MOU: Identification of Genetic Markers for Familial Subvalvular Aortic Stenosis in Bullmastiffs. Status is Open. <http://www.akcchf.org/research/research-portfolio/02327-MOU.html>
- 02388-MOU: Genetic Markers for Familial Subvalvular Aortic Stenosis in Newfoundlands. Status is Open. <http://www.akcchf.org/research/research-portfolio/02388-MOU.html>
- 02520-MOU: Identification of Genetic Markers for Familial Subvalvular Aortic Stenosis in Rottweilers. Status is Open. <http://www.akcchf.org/research/research-portfolio/2520.html>
- 02521-MOU: Identification of Genetic Markers for Familial Subvalvular Aortic Stenosis in Golden Retrievers. Status is Open. <http://www.akcchf.org/research/research-portfolio/2521-MOU.html>
- 02424: Identification of Genetic Variants Associated with Pulmonary Valve Stenosis in Bulldogs through Whole-Genome Sequencing. Status is Open. <http://www.akcchf.org/research/research-portfolio/2424.html>

Understanding Dog Breeds as Populations

Jerold S. Bell DVM, Adjunct Professor of Genetics at the Cummings School of Veterinary Medicine at Tufts University. Chairman of the Hereditary Diseases Committee of the World Small Animal veterinary Medical Association. Dr. Bell is also on the Board of Directors of the OFA and the AKC Canine Health & Welfare Advisory Panel.

Dr. Bell presented the information contained in his paper that was provided for your review. He will do a much better job of discussing the topics than I will:

Continued on page 14

BCOA 2020 Conformation Statistics

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Submitted by Caryl Dumaine, caryldumaine@gmail.com (source: Canine Chronicle)

NOTE: The FIRST owner listed must be a BCOA member to be included in these standings

All-breed Standings

	Owner(s)	Sex	Points
1 GCHS CH Majenkir Bookstor Spellbinder	K Staudt-Cartabona/K Spey/H Spey	M	1347
2 GCHS CH Crown Jewel Princess Eugenia Of Majenkir	J Durdin.....	F	721
3 GCHS CH Aruzia Joyous Pennyroyal At Rivervue	V Jones	F	421
4 GCHB CH Soyara's Devilish Delilah	P Hlatky/G Hlatky	F	401
5 GCHB CH Kyrov's Scottish Lilt At Horse And Hound.....	P Buffington/K Seymour.....	F	349
6 GCHS CH Majenkir Thunderstruck White Storm Rising.....	M Yoesel/M Yoesel.....	F	347
7 GCH CH Del Sol Oxota Fire And Ice	S Van De Water	F	264
8 GCH CH Crown Jewel Zhivago Of Majenkir.....	J Durdin.....	M	155
9 GCH CH Tantezampe Kilimanjaro Trek At Rey	K Novotny	M	118
10 GCHG CH Fiery Run Rider On The Storm BCAT	E Tolley/D Nutting	M	83

Breed Standings

	Owner(s)	Sex	Points
1 GCHS CH Majenkir Bookstor Spellbinder	K Staudt-Cartabona/K Spey/H Spey	M	217
2 GCHS CH Crown Jewel Princess Eugenia Of Majenkir	J Durdin	F	97
3 GCHG CH Fiery Run Rider On The Storm BCAT	E Tolley/D Nutting	M	83
4 GCHB CH Soyara's Devilish Delilah	P Hlatky/G Hlatky	F	54
5 GCH CH Del Sol Oxota Fire And Ice	S Van De Water	F	46
6 GCHB CH Kyrov's Scottish Lilt At Horse And Hound	P Buffington/K Seymour	F	40
7 CH Val-Thor Golightly Cha Cha Slide	B De La Rosa	F	36
8 GCH CH Tantezampe Kilimanjaro Trek At Rey	K Novotny	M	33
9 GCH CH Howff Carbonel Evolgo Of Avalon JC	L Littleton/V Littleton	M	32
10 GCHS CH Majenkir Thunderstruck White Storm Rising	M Yoesel/M Yoesel	F	30

BCOA 2020 National Owner-Handled Statistics

As of May 16, 2020, BCOA member-owned Borzoi

Submitted by Deb Vidaver-Cohen, vidaver@att.net

NOTE: The FIRST owner listed must be a BCOA member to be included in these standings

Dog Name	Owner Name	Sex.....	Pts
1 GCH CH Tantezampe Kilimanjaro Trek At Rey	Kathleen Novotny.....	Dog	305
2 GCH CH Wolfblitz The Red Rocker	Laurie Courtney/Steve Courtney	Dog ...	240
3 GCH CH Justart Majenkir Noble Kinsman	Molly Anne Forsyth/Suzanne Morrison Forsyth	Dog	205
4 GCH CH Russkiy Azart Diamant Di Yalmea Too Hot To Handle JC FCAT ..	Jill Zamowski/Katrina Averill	Dog ...	150
5 GCHB CH Korsakov Love A Mystery At Lost Key BCAT RATN CGC TKP...	Rhonda Robins	Dog ...	140
6 GCH CH Jubilee Sambuca Seven.....	Mrs. Cindi Gredys	Dog	110
CH Kirov Windrift Fly So Free SC.....	Barbara Ewing/Nancy Reimer	Bitch	110
8 GCHB CH Raynbo's Seabiscuit At Shalamar.....	Marina Pearce/Roni Zucker/Jennifer Zucker.....	Dog	95
9 CH Horse And Hound Full Of Hope	Pamela Buffington	Bitch	65
10 GCH CH Oxota RiverRun Tangmalangaloo Avalon RN JC CGCA CGCU TKN ..	Leigh Paintin/Ken J Paintin	Dog	60

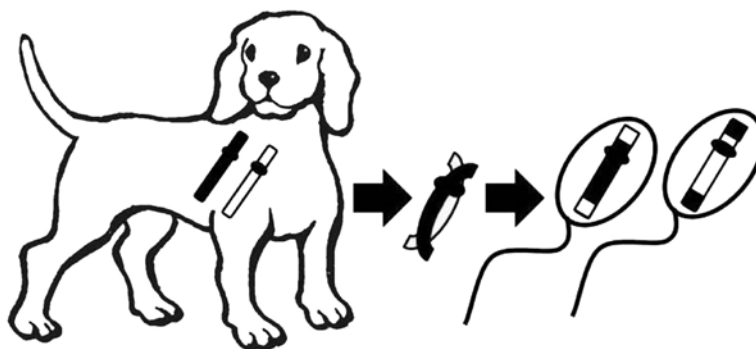
Dog breeds are like different ethnic populations of people. All people on earth are humans (*Homo sapiens*), but we are not all closely related. Ethnic populations originally arose due to geographic isolation. There are some mutated genes (and hereditary diseases) that are shared by different ethnic populations. These mutations occurred a long time ago in distant ancestors that preceded population migrations and the separation of ethnic populations. In some ethnic populations certain common genetic diseases occur at a higher frequency (like high blood pressure and diabetes). Some ethnic populations are prone to certain genetic diseases that are seen very rarely in other populations.

The same thing occurs in purebred dog populations. Dog breed populations are like early isolated human populations. The most common genetic diseases that are seen by veterinarians every day in practice are due to ancient liability genes that originated in ancestors that preceded the separation of breeds. They occur in both purebred and mixed breed dogs. These include allergies, hip dysplasia, heart disease, cruciate ligament disease, slipping kneecaps, cataracts, hereditary cancers and others. Breed-specific genetic disorders are due to more recent mutations. For many genetic disorders, validated genetic tests are available to identify carriers. For others, genetic screening and medical history differentiate normal from affected dogs.

Breed Formation & Chromosomal Inheritance

Breeds were formed by selecting for a working, behavioral and/or conformational standard. Dogs that did not adhere to a standard or were unhealthy were discarded. Those that did adhere were used for breeding. As only a small number of dogs are used to produce the next generation, rapid change can occur in the breed's genetic background. Dogs that embody and produce health and quality were considered superior to the standard and their offspring were used more frequently. Their genes were retained and propagated in the breed gene pool. Dogs that produced offspring that were unhealthy or inferior to a standard were not used. Their influence and that of their ancestors was diminished.

Dogs have 39 pairs of chromosomes – one in each pair from its sire and one from its dam. Dogs used for breeding supply one chromosome from each pair to every offspring. Due to chromosomal crossovers during meiosis producing sperm or eggs, each chromosome can include a mixture of chromosomal segments from its two parents. When genes are selected, the chromosomal segment (haplotype block) containing the gene is inherited along with many other “linked” genes in the segment.



Chromosomal crossover during meiosis forming sperm or eggs can mix maternal and paternal segments on each chromosome.

Selection for positive traits will cause the inheritance of a chromosomal segment from the parent(s) containing causative genes. Selection against deleterious traits or diseases will cause the loss of a chromosomal segment containing causative genes. As meiotic crossovers occur producing sperm and eggs through the generations, the size of the chromosomal segment containing genes under positive and negative selection can get smaller.

As ancestors and dogs who pass on positive traits to the breed are linebred on (appearing in both the sire and dam's sides of the pedigree) this can cause haplotype blocks to pair up - causing runs of homozygosity (ROH). Even without close linebreeding, selection for positive traits will increase their homozygosity having originated from distant ancestors. Breed-defining genes would be expected to be collected in runs of homozygosity due to selection over time.

Deleterious (primarily recessive) mutated genes can accumulate in the background of the breed gene pool. These accumulate primarily because they are not expressed in the heterozygous (carrier) state. Deleterious genes can increase in frequency if linked to positively selected genes, or through genetic drift. An increasing frequency of breed-related disease will be due to homozygosity of deleterious recessive or additive liability genes. Individual liability genes can cause embryonic death (thus resulting in smaller litter size or infertility), increased neonatal death, or breed-specific genetic disease. This is due to the expression of specific deleterious genes and not a general result of increased homozygosity.

If disease liability genes are linked in haplotype blocks to positively selected genes, then dogs that demonstrate the positive traits and do not carry the disease-liability genes should be selected for breeding. These dogs can occur due to phenocopies (selected traits due to other genetic causes), or due to meiotic chromosomal crossovers that break the linkage between the positive and disease-liability genes. If the positive and deleterious genes cannot be separated due to tight linkage (adjacent genes or even multiple effects of the same gene) then this is not a healthy breed standard. The standard may need to be changed, achieved through other selected genes or possibly through crossbreeding.

As breeds develop and reproduce to a standard, their genetic difference from other breeds increases. Runs of homozygosity for breed-defining traits and quality genes is a positive development, even though it results in a loss of genetic diversity from genes

Continued on page 16



2021 BCOA NATIONAL SPECIALTY

“Roaring 20s Borzoi Promenade” May 23-29, 2021

Roberts Centre in Wilmington, Ohio

Holiday Inn attached to Roberts Centre
123 Gano Rd., Wilmington, Ohio 45177 • 937-283-3200

**Reservations must be made
between July 1, 2020 and May 1, 2021.
Singles and Double Rooms are \$119 per night
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Specified dog walking and ex-pen areas.

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RV rental via Buckeye RV 937-382-2344**

JUDGES (tentative)

Regular Classes & Junior Showmanship: Michael Canalizo

Obedience & Rally: Shirley Spall

Sweepstakes Classes: Carol Kubiak-Zamora, Phaedra

AKC Lure Coursing & JC Tests: Katie Kaltenborn & Kirby Overcash

Futurity: To be determined

EVENTS

Sunday May 23: AKC lure coursing at Hisey Park in Waynesville, Ohio

Monday May 24: LGRA at Hisey Park; Obedience/ Rally practice at Roberts Center

Tuesday May 25: Obedience & Rally and Futurity at Roberts Center

Wednesday May 26: Puppy & Veteran Sweepstakes, judge Carol Kubiak-Zamora, Health Clinics

Thursday May 27: Triathlon, Altered, Regular Dog Classes, Health Clinics, Roaring 20s Borzoi Promenade - wear your top hats, zoot suits, feather boas & flapper dresses and walk all your Borzoi in a Borzoi promenade!

Friday May 28: Bitch Classes, Annual Meeting and Luncheon, Educational Seminars

Saturday May 29: Veteran Classes, Juniors, Best of Breed, Stud Dog & Brood Bitch, Awards Banquet

SHOW COMMITTEE

Show Chairman: Barbara O'Neill - sheyash@comcast.net

Facility Coordinator: Anne Midgarden, DVM - teineborzoi@nktelco.net

Obedience: June Mintchell - rmintchell@yahoo.com

Field Events: Amy Balthrop - abalthrop@gmail.com

Grounds: Jamie Lynn Bobrowski - starswiftborzoi@yahoo.com

Grooming: Rebecca Drollinger - accberaussie@aol.com

Vendors: Caryl Dumaine - caryldumaine@gmail.com

Trophies: Dedra Jones - borzoi@bellsouth.net

Specialty Sales: Carol Enz - kachinaborzoi@gmail.com

that do not reproduce a standard or maintain health. The genetic diversity between breeds is large. This is why pure breeds can be separated by their DNA signatures. Breed subgroups (conformation versus working or breed populations on different continents) can also be differentiated based on their DNA. This can provide an important source of breed genetic variation if needed. The genetic diversity within the breed should be small, so that the breed reproduces itself to a healthy standard. This is the “big picture” of genetic diversity in dog breeds.

The fine detail of genetic diversity within a breed concerns maintaining a healthy phenotype and reproductive ability. Dogs from the breadth of the gene pool should be used for breeding as long as they represent health and quality. Restricted genetic diversity is not an issue in pure breeds, unless there is no alternative direction to go for health and quality.

Differences Between Breeds And Species

The force of species evolution is natural selection - the ability to thrive and reproduce within the species' environment. Artificial selection that could be detrimental to species survival is not an issue in the wild. Genetic isolation can create subspecies (often with multiple isolation events) and can cause random genetic changes due to genetic drift.

Endangered species can share several population parameters with breeds. Their population size is usually small, and they have a closed population. In many instances, there is a limited foundation base (founder genome equivalent). Endangered species can experience decreased fertility and ability to thrive due to both genetic and environmental variation.

Genetic disease in endangered species occurs primarily through genetic drift. This is the random accumulation of disease liability genes in the absence of selection. As carriers of recessive and additive disease liability genes are healthy, they are not selected against and their genes are propagated in the offspring. Who reproduces in the population is random, and if carriers reproduce, the liability genes are passed on. When recessive disease liability genes pair up, or when additive genes combine to cross a threshold, clinical disease results.

Species survival plans (SSPs) were developed by population geneticists working with rare and endangered species who have a limited number of available breedable individuals. With the assumption that avoidance of homozygosity of deleterious recessive genes provides for the healthiest and robust offspring, SSPs are designed to mate the most unrelated individuals together (through pedigree or molecular genetic markers). This hopefully limits the expression of recessive disease-causing genes. SSPs also work to maintain the breadth of genetic diversity (evaluating the rareness or commonness of genetic background) in the species population. The only individual selection in SSP systems is to not breed unhealthy animals. However, if an unhealthy animal represents a unique genetic background it could still be used in matings to maintain genetic diversity. The goal of an SSP is suc-

cessful reproduction with the production of healthy, live offspring representing the diverse background of the species.

Purebred breeding requires constant (artificial) selection for positive traits including health, and against negative traits and disorders. Without constant selection for specific breeding goals and their associated genes, the health and quality of the offspring will decline. The ability of selective pressure to create change in the population is limited by the amount of variation that is present for the selected trait in the breed. Selecting for heterozygosity as a goal and mating the least related parents together, erases the differences between dogs in the breed that are required for selection. This limits the ability to apply selective pressure for improvement. As a breeder selects for more goals in any mating, the amount of selective pressure for each individual goal diminishes. I.e., it is easier and more productive to select for one to three goals at one time than for eight or nine goals. Any selective pressure (selection goal) that is not specifically directed toward health and quality will diminish the selective pressure for both.

SSP breeding systems are not appropriate for pure breeds. Only outbreeding for the most heterozygous dogs randomizes the positive and deleterious genes in the gene pool. Breed-specific genetic disorders are caused by liability genes that are already dispersed in the breed's gene pool. Outbreeding will not decrease the frequency of these genes in the population. The clinical occurrence and frequency of such disorders will not diminish based on outbreeding versus linebreeding. The disorder will just appear randomly in offspring from different matings. Outbreeding and linebreeding are tools, not goals. There are specific reasons for using either in planned matings.

Improving Breed Population Health Through Health Conscious Breeding

Purebred dog breeds were developed through artificial selection when dedicated breeders judiciously purged dogs and their genes from the breed gene pools if they were unhealthy or did not perform to a standard. Somewhere along the way, the responsibility to select for health and produce healthy offspring disappeared from dog breeding. Today, people just breed dogs and expect healthy offspring.

People decide which dogs get bred, and which get bred to each other. This is the difference between natural selection and artificial selection. If artificial selection does not select for health, then there can be no expectation of genetic health. If artificial selection selects for breed characteristics that impair health, then breed-related disease is the natural outcome. Dog breeding is all about selection.

In the planning of any proposed mating, the selection of healthy parents is paramount to the health of the offspring. A pre-breeding health examination includes phenotypic examination of the major organ systems for; musculoskeletal, cardiac, ophthalmologic,

Continued on page 20

BCOA 2020 Agility Rankings

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Corrections to Chris Danker, hemlock@nycap.rr.com

**Avg
Score #Qs**

Masters Standard 24"

MACH CH Hemlock Hollow's Journey To Rule Sixty-Two BN RN JC MX MXB MXJ MJB DJ DN
CGCA CGCU TKA, Lou Avant and Colleen Allen 100 (4)

Masters Jumpers 24"

MACH CH Hemlock Hollow's Journey To Rule Sixty-Two BN RN JC MX MXB MXJ MJB DJ DN CGCA
CGCU TKA, Lou Avant and Colleen Allen 100 (5)

Excellent Jumpers Preferred 20"

CH Hemlock Hollow Aruzia Enjoy The Journey RE BN NA NAJ NAP OJP JC, Christine and Paul Danker 100 (1)

NEW TITLE HOLDERS CONTINUED FROM PAGE 8

by GCH Kachina Radar Love & GCH Kirov Pulsatilla ROM-C, br: Barbara Ewing, ow: Nancy Reimer & Barbara Ewing
GCH Majenkir Rain Maker At Fairyland (D) HP53539806, 03-Feb-2017, by GCHB Jantar Deja Vu At Majenkir & GCHB Majenkir Eureka, br: Karen Staudt-Cartabona, ow: Qingyu Pan & Jie Feng
GCH Majenkir Bookstor Tsuper Glider (D) HP52112501, 25-May-2016, by CH Majenkir Tsuper Glider & GCHG Majenkir Bookstor Vintage Glamour, br: Karen Staudt-Cartabona & Karen & Howard Spey, ow: Karen Ackerman & Karen Staudt-Cartabona & Karen Spey
GCH Tantezampe Kilimanjaro Trek At Rey (D) HP56029401, 01-Feb-2018, by Milionaire Bielle Noci & , Fortune Cookie, br: Marina Cornaglia, ow: Kathleen Novotny

Grand Champion Bronze (GCHB)

GCHB Kyrov's Scottish Lilt At Horse And Hound (B) HP52959504, 01-Dec-2016, by GCHG Konza-Plum Creek Bugatti At Elance ROMX-C & Kyrov's Somewhere In Time, br: Amy Sorbie & Brenna Sorbie, ow: Pamela Buffington & Kristine Seymour

Grand Champion Silver (GCHS)

GCHS Aruzia Joyous Pennyroyal At Rivervue (B) HP49286405, 15-Apr-2015 by GCHP Raynbo's Run For The Roses ROMX-C & CH Aruzia Joyous Moondance JC ROM-C, br: Joy Windle & Lorrie Scott, ow: Virginia Jones

GCHS Crown Jewel Princess Eugenia Of Majenkir (B) HP51747001, 13-May-2016 by GCHB Jantar Deja Vu At Majenkir & GCHP Crown Jewel Tatiana ROM-C, br/ow: Jean Durdin
GCHS Irishbrook's Sonoma Archangel Michael Of Serafim (D) HP49920503, 16-Aug-2015, by CH Sonoma's Twilight Moon Svora & Irishbrook O'Angels Out Of The Blue JC, br: Mike Savage & Vicki Savage & Cindy Klein & Loretta Binder-Wheeler, ow: Michael Savage & Vicki Savage & Cindy Klein
GCHS Majenkir Bookstor Spellbinder (D) HP52105102, 12-May-2016, by CH Majenkir Bookstor Fyodor Fine Art & Jantar Majenkir Fearless Lass, br/ow: Karen Staudt-Cartabona & Karen Spey & Howard Spey

Companion Dog (CD)

Zabava Dendy Let It Be Me CD BN RI THDA CGCA CGCU TKN (D) HP52240305, 09-Sep-2016 by GCH Yegorov Zabava Dearmrfantasy & CH Zabava Jubilee Do-Re-Mi, br: Maggie Michael & Joe Michael & Kristina Terra & Irina Terra, ow: Janet Browne

Rally Intermediate (RI)

Starswift Everlasting Legacy BN RN RI (D) HP54591503, 17-Oct-2017, by GCH DC Starswift Let Freedom Ring BN RE SC BCAT THDD CGCA TKN FCH VFCH & CH Starswift Lightning Quick JC SC FCH, br: Jamie Bobrowski, ow: Jerrie Jarvis & Jamie Bobrowski

GCH DC Wild Hunt Quantum Singularity Of Ryhka BN RN RI FDC SC SWN SIA SBA DEA DMA CGCA CGCU TKP (B) HP51414701, 27-May-2016 by GCHP Aashtoria Wildhunt Hidden Agenda CGCA ROMX-C & CH C'Lestial Xcelerator Of Ryhka, br/ow: G Ariel Duncan & Diana Darling

Rally Novice (RN)

CH Téine Fendi Sandals RN JC CGC (B) HP56255405, 17-Jul-2018, by CH Borzowski's Magical Mirage JC & FC Téine Zharkov Kismet SC, br: Anne Midgarden, ow: Sheryl Amburgey & Harry Van Vliet

AKC Temperament Test (ATT)

CH MACH Hemlock Hollow's Journey To Rule Sixty-Two BN RN JC MXS MJS DJ DN CGCA CGCU TKA ATT (B) HP48679406, 05-Dec-2014 by CH Aashtoria Aruzia Java Chip ROM-C & GCH Borscana Melissa Loveletter BN RE JC OAJ OJP ROMX-C, br: Christine Danker & Lorrie Scott, ow: Lou Avant & Colleen Allen

Advanced Canine Good Citizen (CGCA)

RACH Iorek's Bambi CD RM2 RAE2 CGCA TKN (B) HP52608001, 10-Jul-2016, by Velikij Pravda & Vega Shelk Landyscha, br: Anna Akerstrom, ow: Melissa & Dean Eelman
RACH Iorek's Merlyn CD BN RAE2 RM2 CGCA TKN (D) HP52608002, 10-Jul-2016, by Velikij Pravda & Vega Shelk

Continued on page 18

BCOA 2020 Open Field Coursing

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Submitted by Karen Ackerman

NOFCA Top Ten

1. Avalon Perlova Ready Set Go, Margot, L. Turner.....	72
2. Zari, K. Berry	51
3. K-C Windsheer Trial By Fire SC, Deedee, C. Enz/D. Mills.....	32
4. Kirov Windrift Fly So Free, Sophie, B. Ewing/N. Reimer	24
5. BIF Oxota Molodezovna Hatsya JC, Hotsi, L. Paintin.....	14.5
6. Perlova Avalon Boldly Go, Kirk, D. Ross	14
7. Valeska Rarest of the Rare CC,CM, Layla, L. Turner	10
8. CH Kachina Story Book Love, CC,CM, Desiree, C. Enz	7
9. Kirov Kachina Porsche Turbo Carrera, Porsche, C. Enz/B. Ewing	5

With regard to the top ten for open field coursing, these ratings only reflect those BCOA members participating in NOFCA hunts. Results are based on NOFCA News website covering hunts held from January 1, 2020 through December 31, 2020 inclusive. Submit any corrections to Karen M. Ackerman, PO Box 507, Upton, Wyoming 82730.

NACA

Since the beginning of 2020, the North American Coursing Association had the following BCOA members and their hounds compete in open field coursing. All of the Borzoi listed below have accumulated points toward their open field titles

Majenkir Justart Iconic Evening's Hot Commodity, Evie, W&K Ackerman/K Staudt-Cartabona

These results were submitted by Linda Sanders, NACA Recorder. Please submit any corrections to Karen M. Ackerman, PO Box 507, Upton, Wyoming 82730. These lists are only indicative of BCOA member-owned Borzoi and are not reflective of all open field coursing Borzoi.

BCOA 2020 NOTRA TOP 10

for BCOA member-owned Borzoi as of May 2, 2020

Submitted by Karla Smith, gazehound_vet@yahoo.com

Call Name	Name	Owner	YTD Points
1	Zadria	Avalon Keep on Dancing ORC	Cecere.....7.00
2	Bruce	Avalon Dark Knight Willowind Delsol ORC	Kirbie Allen & Stephanie Allen1.50

NEW TITLE HOLDERS CONTINUED FROM PAGE 17

Landysha, br: Anna Akerstrom, ow:
Melissa & Dean Eelman

Canine Good Citizen (CGC)

Karitonova Majenkir First Time For Everything
RN RA BN CGC (B) HP48052005,
05-Jun-2014, by GCHB Jantar Deja Vu
At Majenkir & GCH Karitonova Majenkir
Some Enchanted Evening, br: Kimberley
Janek & Robert Janek & Karen Staudt-
Cartabona, ow: Kimberley Janek & Cathy
Gaudette

Promises Juna Reaching For A Star CGC (B)
HP55280206, 22-Dec-2017, by Promises
The Mighty One & Promises Shining Star,
br: Jackie Corsette, ow: Heather Lukashin
Red Baron's Nellie Belle CGC (B)
HP56470005, 06-Oct-2018, by FC
C'Lestial Noble House Red Baron SC &
Big As A Glacier Light As A Leaf JC, br:
Carissa Bryant, ow: Katharine Ellis-Copen

Junior Courser (JC)

Avalon Perlova Mhd Bad Case Of Lovin You

JC (B) HP57216903, 14-Dec-2018 by
GCH Oxota RiverRun Tangmalangaloo
Avalon RN JC CGCA CGCU TKN &
CH Avalon Dolce Tigrecilla Willowind
BN RE SC BCAT THDA CGCA CGCU
TKI, br: Javier Ocasio, Leigh Paintin &
Sandra Moore, ow: Emily Killian
C'Lestial Thunder & Lightning JC (D)
HP53854502, 03-Jul-2017, by C'Lestial
Cappuccino Crunch SC & FC C'Lestial
Madonna Lily SC CGC, br/ow: Liz Green

Continued on page 26

BCOA 2020 AKC Lure Coursing Borzoi

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Submitted by Leonore Abordo, borzoi_oxota@yahoo.com

Rank	Name	Owner(s)Bowens
1	Augustus CH Resolute's Augustus McCrae Jedawn At Full Tilt SC CGC TKN	Ashley Sydow and S Nichols.....20
2	River DC Mielikki Kalabria RiverRun Into Darkness SC	Ashley Sydow 19
2	Liza CH Jubilee Stonecreek Anisetta SC CA	Krista Hunt DVM and C Gredys 19
4	Raiya Elance Resolute's Raiya SC	Leslie Walenta.....11
4	Clark GCH CH Dehaven Through The Roof 'N Underground SC CA	Jenny Coomler11
6	Anya CH Kuskaya's Lady Of Kilkenny SC	Ashley Sydow 10
7	Zadira CH Avalon Keep On Dancing DCAT	Susanne Cecere and S Moore 6
8	Trevi DC C'Lestial Fontana Di Trevi SC CGC	Victoria Cassano 4
9	Clara Resolute's Clara Allen Jedawn SC	Leslie Walenta..... 3
9	Terra Cotta Sylvan Elance Terra Cotta SC	Christopher & Patti Neale 3

BCOA 2020 ASFA Lure Coursing Borzoi

for BCOA member-owned Borzoi, January 1 to March 31, 2020

Submitted by Leonore Abordo, borzoi_oxota@yahoo.com

Rank	Name	Owner(s).....Bowens
1	Langley Zoiboyz Langley	KC Thompson/T. Golcher11
2	Fendi Téine Fendi Sandals	S. Amburgey/H. Van Vliet..... 9
3	Lolita Zoiboyz Lolita FCh	L. Pocurull/KC Thompson 7
4	Hope FC Zoiboyz Hope At Islehaven FCh	P. Potter/KC Thompson 4
4	Sir Lancelot GCh,DC C'Lestial Red Lantern @ Ryhka LCM2,VLCM,SORC2,LCX	D. Darling/L. Green..... 4
6	Vail Weston's Gibson Flying V At Ryhka	C.& K. Grabosky 2
6	Rhayne FC C'Lestial Rainbow Room @ Ryhka FCh,SC	D. Darling..... 2
6	Fireball Jedawn Zoiboyz Resolute Fireball	D. Hall/KC Thompson/S. Jimenez 2
9	Indy Go Perlova Avalon Indy Go Zoiboyz LCM	KC Thompson/T. Golcher1
9	Tintaglia FC Chaya Sars The Black Ice Dragon "Tintaglia" @Ryhka FCh,SC	D. Darling.....1
9	Skaya DC Avalon WW Darkskaya Dare FCh,SC,RN,CGC	L. Paintin1

BCOA 2020 LGRA Borzoi

for BCOA member-owned Borzoi, through March 1, 2020

Submitted by Dawn Hall, news4me@gmail.com

1	B-1853	Zadira	CH Avalon Keep On Dancing BCAT GRC	Cecere	3.00
2	B-1832	Mischka	Avalon Krasavitsa Moya	Jackson	1.50
3	B-1634	Star-F	Oronzova Steppes North Star	Frisbie	1.00
4	B-1862	Apollo-G	Avalon Keeper Of Dreams	Greene	0.25
5	B-1876	Trevi	DC C'Lestial Fontana di Trevi SC FCh CGC	Cassano	0.25

logic, gastrointestinal, pulmonary, dermatologic and behavioral abnormalities. Medical history should be examined for episodic inherited disease that cannot be identified on examination; i.e., allergies, seizures, bloat, bladder stones, cruciate ligament disease, etc. Dogs demonstrating hereditary disease should be selected against for breeding.

Pure breeds can also have breed-specific genetic disease due to more recent mutations. For many of these there are breed-validated genetic tests that can identify causative or disease liability genes, or genetic screening to identify affected dogs. The OFA Canine Health Information Center (www.ofa.org) and the AKC Bred With H.E.A.R.T. program (<http://www.akc.org/breeder-programs/akc-bred-with-heart-program/>) both have breed-specific genetic testing requirements that have been determined by the parent breed club. All prospective breeding dogs should undergo a veterinary pre-breeding health assessment that covers screening and medical history evaluation for all common and breed-related genetic disorders. If all breeders include pre-breeding genetic screening in mate selection, then America's dogs will be healthier.

The advent of multiplex genetic panel testing (Mars Wisdom Health, Embark, etc.) provides genetic test results for over 180 canine traits and disorders. Unfortunately, most of the disease liability genes tested for in these panels are breed specific. Unless the gene(s) have been validated to cause clinical disease in other breeds or mixed breeds, the test result may not have any significance in your dog. In addition, the panel tests utilize SNPs (single nucleotide changes) instead of testing for a mutation, so false positive and negative results can occur. Breeding decisions regarding breed-validated liability genes should be based on direct mutation and not SNP testing.

Typical genetic counseling recommendations utilize the breeding of quality carriers to non-carrier dogs and replacing the carrier parent with a quality non-carrier offspring. In this way breeding lines (and breed genetic diversity) are not abandoned and testable disease liability genes can be lost in one generation. If a valid genetic test is not available then selection should be based on genetic screening and open health databases that identify relative risk of carrying disease liability genes.

Health conscious breeders are fulfilling their ethical responsibilities to produce healthier dogs. If a breeder is not willing or able to provide official health screening results for the parents of litters, then BUYER BEWARE! There will be no expectation of genetic health in the puppies. Without evidence of pre-breeding genetic screening, health guarantees that provide for a replacement of a family member once the emotional bonds have been made are worthless. It is only a piece of paper written to excuse a breeder from performing their ethical responsibility of pre-breeding health screening.

There are many conversations concerning issues with dog breeding in America. Many people prefer the predictable characteristics of purebred dogs. The "Adopt, Don't Shop" movement

promotes rescuing a dog from a shelter instead of buying from a breeder. The fact is that there isn't even a fraction of rescue dogs available to provide canine companionship to America's families. This has created the "bred for rescue" industry. Dogs will continue to be bred so that they can be our faithful companions. If any purebred or mixed-breed mating is being planned, health-conscious breeding through pre-breeding health examination, genetic screening and genetic testing should be performed. If the public demands health-conscious breeding then the issue of genetic disease in dogs will change.

"All dogs deserve to live healthy lives." William J. Feeney, Chairman of the AKC Board of Directors.

Articles of interest:

- Understanding Breeds as Populations: <https://www.akcchf.org/educational-resources/library/AKCCHF-Understanding-Breeds-as-Populations-002.pdf>
- The Aspect of Population Size on Healthy Breeding in Dog Breeds: <https://www.akcchf.org/assets/files/Dr-Bell-AKCCHF-Population-Size-Healthy-Breeding-post-event.pdf>

Webinar "A Clinical Genetics Approach to Understanding Genetic, Multiplex and Health Testing: <https://www.vetvine.com/article/377/akcchf-clinical-genetics>

Websites of Interest:

AKC's "Bred With H.E.A.R.T." Program: <https://www.akc.org/breeder-programs/akc-bred-with-heart-program/>
To see Dr. Bell's university web page with a list of his papers: <http://vetprofiles.tufts.edu/faculty/jerold-bell#tab-education>

Development and Utilization of a Genetic Risk Assessment for a Multifactorial Disease

Leigh Anne Clark, PhD. Associate Professor of Genetics and Biochemistry at Clemson University.

Most of us think of Mendelian genetics when we consider disease genes. We think of dominants and recessives - inheritance that involves just one gene. But there are characteristics and diseases that have a far more complex mode of inheritance. Complex inheritance can also be called polygenetic inheritance. This would include characteristics and diseases that take more than one gene for inheritance to occur.

Recessively inherited diseases are the most common, with 65% of heritable diseases in dogs being autosomal recessive. But some diseases not only take more genes to cause the disease, but also require an environmental trigger. Environmental triggers can include the following: diet, stress, toxins, hormones, UV exposure, activity level, viral exposure, etc. These diseases are

Continued on page 24

NEW TITLE HOLDER

RALLY NOVICE



Téine Girl in Velvet Combat Boots, CGC, JC, RN

“Prada” is the Perfect Princess. Beautiful, smart, and blazing fast. Both CH majors (including BOB over adult specials), has her QC. We can’t wait to get her back out and about when events resume.

GB CH Rothesby Shadowchant
SE CH Rothesby Sholwood Mystic (imp. UK)
GB CH Rothesby Savanna
CH Borzowski's Magical Mirage, JC (imp. SWE)
GB CH Rothesby Seahawk
C.I.B., NO CH, SE CH Borzowski's Hillary Hope
SE CH Borzowski's Magic Queen at Zaprof
FC AuDruid Bremen's Thorium of Ryhka, FCh, SC
DC Téine Twist of Fate, SC
CH Phoenixx Sweet Virginia New Moon
FC Téine Zharkov Kismet, SC
BIS, BISS, DC Téine Windmaster of Foxwood, SC, ROMX
DC Téine Rainbow Glacier, FCh, SC, CD, RN, DCh, DT
DC Annwn Edessa, LCM, DCh, DT

Owners

Leonore Abordo
Oxota, reg.

New Mexico • borzoi_oxota@yahoo.com

Breeders

Anne Midgarden DVM
Téine

Ohio • teineborzoi@nktelco.net

NEW TITLE HOLDER

AKC CH



CH Folly Quarters Windcatcher

“Draper” has been a therapy dog at Craig and Swedish Hospitals in Denver since he was 12 weeks old.

CH Téine Intrinsic JC, UD, OA, OAJ, RA, U-CD
CH Riju Téine Finnegan's Funtime TDI
CH Annwn Edessa FC LCM AKC DC
Ravenna JaFinn Clouds in Water
CH Po Dusham Royalist
CH Ravenna Tesseract FCH
CH Winterwind Beyond Th Willows
CH Astara's Lasting Impression Lido
Astara's Bring It On
Astara's Bring On The Lucie
CH Folly Quarters' Zosia
CH Astara's Lasting Impression Lido
CH Folly Qtrs' Svetlana Zoyanovna
CH Snowgriffin's Zima Vissalka FCH SC

Owners

Maggie Rice
Folly Quarters

Denver, Colorado USA • maggie_rice@comcast.net

Breeders

Maggie Rice
maggie@follyquarters.com

NEW TITLE HOLDER

AKC CH



CH Folly Quarters Windhunter

Both FiBee (Windhunter) and Draper (Windcatcher) finished their CH title on Saturday February 15th at the Colorado Kennel Club Shows. FiBee (number Flve born by the BEEhives) has been a therapy dog at Craig Hospital since she was 12 weeks old.

CH Téine Intrinsic JC, UD, OA, OAJ, RA, U-CD
CH Riju Téine Finnegan's Funtime TDI
CH Annwn Edessa FC LCM AKC DC
Ravenna JaFinn Clouds in Water
CH Po Dusham Royalist
CH Ravenna Tesseract FCH
CH Winterwind Beyond Th Willows
CH Astara's Lasting Impression Lido
Astara's Bring It On
Astara's Bring On The Lucie
CH Folly Quarters' Zosia
CH Astara's Lasting Impression Lido
CH Folly Qtrs' Svetlana Zoyanovna
CH Snowgriffin's Zima Vissalka FCH SC

Owners

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Folly Quarters

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Breeders

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known as Multifactorial complex. An example of a Multifactorial complex genetic disease is Dermatomyositis. Dermatomyositis is an immune-mediated disease of the blood vessels that causes skin lesions that can also involve the muscles. Usually seen in Collies and Shetland Sheepdogs it is caused by 3 genes plus an environmental trigger. The severity, age of onset, and duration varies between dogs. Primarily the skin lesions are found where the skin is thin; on the face, the ears, legs, tail. The affected tissue can go deep to involve the muscle so that severely affected dogs may have problems swallowing food or walking. In the case of Dermatomyositis the environmental trigger appears to be vaccinations with some individuals needing less of a trigger than others.

When studying the genetics of autoimmunity, the first place to look is at the MHC (or DLA—the name for the same area in dogs) which is a part of the genome that deals with immunity. Some DLA haplotypes associated with the disease are on chromosome 12 - DRB1, DQA1, and DQB1. These genes are important in the differentiation between the body's own cells and foreign invaders. These three genes tend to be inherited together and are called a haplotype.

US Collies have shockingly little DLA diversity. In the US, Collies only have three DLA haplotypes. Collies in Europe have a few more haplotypes. There is not enough difference in the DLA between the affected and unaffected collies to help figure out the inheritance of this disease. However, Shelties have more

DLA haplotypes and therefore more variability that allows for a meaningful scientific investigation into the inheritance of this disease.

This research shows that Shelties homozygous for the 201 DLA haplotype puts them at risk for dermatomyositis, but other genes had to be involved. Using GWAS two variants on chromosome 10 (seen in Collies and Shelties) and 31 (seen only in Shelties). Chromosome 10 in Shelties were found to be strongly associated with dermatomyositis. This gene, PAN2, was determined to have a great impact. The PAN2 gene disrupts the mechanism to turn off protein production. This gene will be designated as the “A” locus. The other gene, on Chromosome 31, is MAP3K7CL, this regulates inflammation. This gene will be designated as the “B” locus. The suspected DLA region on chromosome 12 is designated as the “C” locus. In the information below, lower case denotes wild type (non-disease causing), and capital letters denote the disease gene.

aabbCc - low risk
AabbCc - low risk
aaBbCc - low risk
AaBbCc - low risk
aaBBCC - low risk
AAbbCc - moderate risk
AABbCc - moderate risk
AaBBCC - Moderate risk
AABBCC - High risk

Look at a summary of these genes and their relative risk:

Risk Level	High Risk	Moderate Risk	Low Risk
% chance of being affected	90-100%	33-50%	Rare
Genotype	AABbCC - 2 healthy, 22 affected	aaBBCC - 6 healthy, 7 affected	aabbCc
	AaBBCC - 3 healthy, 26 affected	AAbbCc	aabbCC - 60 healthy, 2 affected
	AABBCc	AAbbCC - 34 healthy, 22 affected	AabbCc
	AABBCC - 100% affected. 0 healthy, 22 affected	AABbCc	AabbCC - 94 healthy, 4 affected
		AaBBCC	aaBbCc
			aaBbCC - 42 healthy, 0 affected
			aaBBCC
			AaBbCc
			AaBbCC - 36 healthy, 2 affected

When you look at the C locus, you can tell that heterozygosity of the DLA reduces the risk of Dermatomyositis. The four genotypes that were high risk included homozygosity of either the B locus or the A locus. This means that both parents contribute to this disease whether they are apparently affected or not or whether they are low risk or not.

If a dog has a genotype that is AABB the median age of onset is about 5 months, usually after vaccinations. If a dog has a genotype of AaBB or AABb there is a median age of onset (approximately 1.5 years - typically after a stressful event. And dogs with the genotypes of either AAbb or aaBB have an older age of onset. Animals with

Continued on page 26

greater risk need less of a trigger than do those with a lower risk. Merle Collies rarely develop Dermatomyositis because the gene that produces merle and the A locus gene wild type are linked. So if a dog gets a merle gene, it will also get a healthy A locus gene.

Collies have more A than B and Shelties have more B than A, but they both have significant amounts of the disease genes.

A lot of other breeds were found to have at least one or two of the three risk alleles. However only two breeds had 3 risk alleles besides Collies and Shelties - Cardigan Welsh Corgis and Cairn Terriers.

The key with multifactorial inheritance is that low risk dogs can produce high risk puppies. An affected dog can produce low risk puppies. Once a genetic test is available (as it is for Dermatomyositis) you can select sires and dams to assure all puppies are born without risk of dermatomyositis.

Articles of Interest:

- Beyond the MHC: A canine model of dermatomyositis shows a complex pattern of genetic risk involving novel loci. <https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1006604>

Websites of interest:

Dr. Leigh Anne Clark's presentation on Dermatomyositis and Interpreting Risk Assessment Results: <https://www.collehealth.org/dermatomyositis-dr-leigh-anne-clark/>

To see Dr. Clark's university web page with a list of her papers: <https://www.clemson.edu/science/departments/genetics-biochemistry/people/profiles/lclark4>

Recent research on the CHF Website:

- 00934: Investigation of inherited Diseases of the German Shepherd Dog using the SNP Array. Status is closed. <https://www.akcchf.org/research/research-portfolio/0934.html>
- 02261-MOU: Improvement or Risk Assessments for Dermatomyositis Testing. Status is closed. <https://www.akcchf.org/research/research-portfolio/2261.html>
- 01497-A: Dog leukocyte antigen 88 typing in German Shepherd Dogs having pancreatic insufficiency. Status is closed. <https://www.akcchf.org/research/research-portfolio/1497.html>

That is the end of the AKC CHF National Parent Club Canine Health Conference of 2019. I would also like to add this addendum:

Columnist's Note: As a member of the Borzoi Club of America I was filled with pride during the presentation of the Asa Mays Excellence in Canine Health Research Award to Anita Oberbaur, PhD. The outpouring of praise for Dr. Mays during the discussion of the history of this award was extremely touching. We are all extremely lucky to have benefited from a Borzoi breeder and judge with such dedication to the future of not only our breed, but pure-bred dogs as a whole. I would like to reach out to Karen Mays to thank her for sharing Asa with us and express my thanks for her continued participation in BCOA. We are lucky to have such a treasure in our midst. For more information on the Asa Mays Excellence in Canine Health Research Award, go to: <https://www.akcchf.org/about-us/awards-and-scholarships/asa-mays-excellence-in-canine.html>

NEW TITLE HOLDERS CONTINUED FROM PAGE 18

Senior Courser (SC)


C'Lestial Eldorado SC (D) HP55104001,
09-Feb-2018, by C'Lestial Cappuccino
Crunch SC & C'Lestial Golden Starr SC,
br/ow: Liz Green
GCH Dehaven Through The Roof 'N
Underground CA JC SC (D) HP49235401,
19-Feb-2015, by Russkaja Volnitsa
Molodez II & CH Havenview's Blak Spot,
br/ow: Jenny Coomler
CH Resolute's Augustus McCrae Jedawn
At Full Tilt JC SC (D) HP49989308,
08-Sep-2015, by CH Windnsatin Dragons
Brimstone SC x GCHB DC Jedawn's
Princess Aurora MC NA CGC FCH ROM-
C, br: Leslie Walenta & Dawn Hall, ow:
Ashley Sydow & Sherri Nichols

Field Champion (FC)

FC C'Lestial Alhambra JC SC (B)
HP51794406, 19-Jul-2016, By CH
C'Lestial Bachelors Button JC & CH
C'Lestial Powder Keg Of Ryhka, br/ow:
Liz Green
FC Steppes Shooting Star JC SC (B)
HP54659707, 20-Oct-2017, by Aashtoria's
Striped In Platinum & CH Steppes Dark
Side Of The Moon, br: Monika Stachon &
Robin Stachon, ow: Tatyana Strong

BCAT (100 yard test run)

CH Cavallierik Rafaello JC BCAT (D)
HP57541501, 08-Sep-2018, by Gordets
Cavallierik Mraja & Cavallierik Daiquiri,
br: Olga Barkovskaya, ow: Anna Calabrese
& Lois Hough

Dehaven Hang On St. Christopher JC CA
BCAT (D) HP52644003, 14-Dec-2016,
by CH Dehaven Through The Roof 'N
Underground JC & Dehaven Pala Tute JC,
br/ow: Jenny Coomler
Estet Classic Ruslan BCAT (D) HP58411403,
08-Jan-2019, by GCH Estet Classic
Timofei & Estet Classic Vsemila, br: Olga
Gorbatsjova & Natalie Kasemets, ow: Gwen
Little & Alexis Robertson & Keith Hicks
CH Kelcorov's Winter Is Coming JC SC
BCAT (B) HP45380002, 10-Jun-2013,
by Golightly By Daylight SC & CH
Kelcorov's Vashda Nirada ROM-C, br/ow:
Bunny Kelley
CH Medovyi Iz Sudarevichei JC BCAT (D)
HP56707101, 20-Mar-2018, by Edin Zlaty
Iz Sudarevichei & Vega Shelk Love 

From The BCOA Archives

Originally published in the AKC Gazette February 1960. Author Maxwell Riddle wrote this article while he was in South Africa on a judging assignment.

This story was written from Durban before I went up into Southern Rhodesia, where I had a chance to watch the Borzoi work.

From what I could learn from watching and questioning various people extremely roached Borzois are used for fast sprints on hares, where the greater roach makes turning more easy, and speed bursts swifter. The flatter-backed dogs are used for long distance work on jackals and Cape Hunting Dogs. It is an exciting sport.

Borzoi have speed and ferocity. I have met a man in South Africa who has wonderfully broadened my knowledge of dogs. He is a Borzoi breeder named R. R. Saddler. Borzoi in South Africa are of unusual quality. Saddler is an official of the Borzoi Club and a long time Borzoi enthusiast, though he formerly had Beagles and Harriers.

Here in South Africa, many Borzoi work for a living. They are used to kill jackals and Cape Hunting Dogs.

The jackal isn't very big, yet he's a rugged customer. He has survived in a land which has much bigger predators, lions, cheetahs, the Cape Hunting Dog and the hyena. Officials say jackals cause a loss of millions in sheep killing each year.

The Cape Hunting Dog is a wild dog. He is nearly as big as a hyena, has terrible, punishing jaws and is very fast. His color is buff, with black spots and he has erect and large ears. These dogs hunt in packs. They will run down and kill the springbok and other very swift antelopes. They do this in the following manner. One dog sets the pace. The others loaf off the pace, or wait to see which way the antelope will turn, then cut crosswise.

The antelope can save himself only by reaching a water hole. But the Cape dogs know this, and usually head them off. So deadly are these dogs that forest rangers, as for instance in Kruger National Park, have orders to shoot them on sight. The difficult is, they have a hard time sighting Cape dogs.

Now Saddler, and other South African Borzoi breeders, have trained Borzoi for coursing. Guided by a former Greyhound race trainer, they have taught their dogs the difficult art of coursing hare, jackals and Cape Hunting dogs. The dogs (Borzoi) are slipped in pairs, singly or in teams of three, depending on the quarry. It requires two Greyhounds to catch a hare. The first one uses a burst of speed to turn the hare; the second cuts across lots. This is repeated until the exhausted hare is caught.

A single Borzoi is capable of running down and catching a hare. His speed forces the hare to turn. But the Borzoi's roached back permits him to turn almost as quickly. The hare is soon captured.

Saddler and his group conduct regular jackal and Cape Hunting Dog hunts. Farmers welcome them. The dogs ride on the tops of trucks, which go through the veld. From their high perch, they are able to spot moving jackals. They leap from the top of the truck, and the chase is on.

One of the things that surprised me most was the flat statement of Saddler and others that the Borzoi can overtake and pass Greyhounds. §



NEW TITLE HOLDERS CONTINUED FROM PAGE 26

Story At Sudarevichi, br: E Nefedova,
ow: Lois Hough & Emma Lloyd & Anna
Calabrese

Scent Work Buried Master to earn the Scent Work Master (SWM) title

Del Sol Riju Keeper Of The Flame RN JC
SWM SCME SIME SEME SHDN (D)
HP54113402, (D) HP54113402, 28-Jun-
2017 by DC Riju Enjoy The Ride CD PCD
BN RA SC SWD SWM SCME SIME
SHDE & CH Del Sol End Of Reason Wns
LCM3 SGRC2 VFCH, br: Susan Van De
Water, ow: June Mintchell

Scent Work Container Master Elite (SCME)

DC Riju Enjoy The Ride CD PCD BN RA
SC SWD SWM SCME SIME SHDE (D)
HP41189103, 14-JUL-2011 by CH Riju
Téine Fun & Games CDX RA JC & CH
Téine Lunar Eclipse CD RN, br: June
Mintchell & Sandra Hilbert, ow: June
Mintchell & Anne Midgarden

Scent Work Interior Advanced (SIA)

GCH Maskova's Mascha Midnite Kiss Of The
Wild Hunt BN RE JC SWN SCE SIA SEA
THDN CGCA CGCU TKI (B) HP44396701,
03-Aug-2012, by GCHS Aashtoria Wildhunt

4 Your I's Only RA ROMX-C & CH
Maskova Isadora Of Majenkir, br/ow: G
Ariel Duncan & Elisabeth Szymanski & Jim
Szymanski & Ralph Jamison

GCH DC Wild Hunt Quantum Singularity
Of Ryhka BN RN RI FDC SC SWN SIA
SBA DEA DMA CGCA CGCU TKP (B)
HP51414701, 27-May-2016 by GCHP
Aashtoria Wildhunt Hidden Agenda CGCA
ROMX-C & CH C'Lestial Xcelerator Of
Ryhka, br/ow: G Ariel Duncan & Diana
Darling

Scent Work Exterior Advanced (SEA)

GCH Maskova's Mascha Midnite Kiss

From the BCOA Archives

Written by Mrs Lawrence Denton, secretary-treasurer of BCOA. Originally published in the May 1960 AKC Gazette.

The necessity for a complete and unmistakable Standard was the motive behind the organization of the Borzoi Club of America, or the Russian Wolfhound Club, as it was first named. Joseph B. Thomas, Simsbury Conn., owner of the Valley Farm kennels, decided that although his hounds had won many honors in the show ring, the judging of the breed was inclined to be erratic due to the ignorance of most people of the qualities that constituted a good Borzoi. He, Dr. De Mund, James Mortimer, and others, who realized the need of a recorded suitable Standard of perfection to guide judges, show committees and breeders, founded our club in December 1903 with that goal in mind. The breed Standard was formally adopted Sept. 1, 1905, and remains much the same today save for amendments made Feb. 13, 1940.

There has been several attempts to re-write the Standard, but so far, none went beyond the rough sketch stage. Perhaps one reason is that Mr. Thomas, who helped formulate the original, knew the breed so well, that no one has been able to improve on his ability to pin-point type and quality. His Valley Farm kennel name is still known worldwide for the hounds that bore it produced excellent Borzois used as foundation stock for many kennels.

Mr. Thomas made three trips to Russia in search of Borzois that would reproduce consistently true to type. He returned with the white and grey Bistri of Perchina, three white and tans of Perchina; Nayada, Schaloste and Nenagladni; three whites from Woronzova, Sorva, Rasskida and Atamtanka. They arrived in 1903 and '04. In 1911 he imported the brown mottled Zyclon of Perchina, the grey Vardi of Perchina, and the tan and white Postrel of Woronzova.

One of the finest studs in America descended from these imports, Ch. Kopchic O'Valley Farm (Bistri of Perchina – Schaloste of Perchina). His progeny helped to create the Sippican, Vladeska, Lorraine and Tatiana kennels, to name just a few.

The famous soprano, Miss Anna Case owned one of the sons of Zyclon of Perchina, Ch Ranco O'Valley Farm. Another one, Ch. Khotni O'Valley Farm, the pride of his owner, William H. Dietz, was shown fearlessly and defeated many of the best.

Templewood Rynda, the only bitch with American bloodlines every used by Miss E. Robinson in her Mythe kennels in England stemmed from Ariane O'Valley Farm. One might say lend-lease originated at Valley Farm, when Ch. Appraxis O'Valley Farm was loaned to Mrs. Beernaert's Zwaenhoek kennels in Belgium for stud purposes. He returned to his native land with a Belgian and French championship title under his collar.

During the years Mr. Thomas operated Valley Farm he did more to promote the breed and did more toward its welfare than any other one person. He was an ardent exhibitor. The 1904 Westminster show saw an entry of 24 Valley Farm Borzois. Between the years 1904 and 1912, inclusive, this kennel entered at Westminster seven times and won 7 WD and 5 WB awards. Borzoi owner, the history of Valley Farm, we have barely touched some of its high lights, is a part of your proud heritage. §



NEW TITLE HOLDERS CONTINUED FROM PAGE 27

Of The Wild Hunt BN RE JC SWN SCE
SIA SEA THDN CGCA CGCU TKI (B)
HP44396701, 03-Aug-2012, by GCHS
Aashtoria Wildhunt 4 Your I's Only RA
ROMX-C & CH Maskova Isadora Of
Majenkir, br/ow: G Ariel Duncan &
Elisabeth Szymanski & Jim Szymanski &
Ralph Jamison

Scent Work Container Excellent (SCE)

GCH Maskova's Mascha Midnite Kiss Of
The Wild Hunt BN RE JC SWN SCE
SIA SEA THDN CGCA CGCU TKI (B)
HP44396701, 03-Aug-2012, by GCHS
Aashtoria Wildhunt 4 Your I's Only RA
ROMX-C & CH Maskova Isadora Of
Majenkir, br/ow: G Ariel Duncan &

Elisabeth Szymanski & Jim Szymanski &
Ralph Jamison

Scent Work Container Novice & Interior Novice & Exterior Novice & Buried Novice to earn the Scent Work Novice (SWN)

FC Téine Mirage At Riju CDX BN GO RA
SC SWN SHDN CGC (B) HP49108202,
19-Feb-2015, by DC Riju Enjoy The Ride
CD PCD BN RA SC SWD SWM SCME
SIME SHDE & CH Zharkov Téine Black
Jade JC, br: Anne Midgarden, ow: June
Mintchell

Trick Dog Intermediate (TKI)

Avalon Perlova Mhd Sweet Fire Of Love CGC

TKI (B) HP57216905, 14-Dec-2018 by
GCH Oxota RiverRun Tangmalangaloo
Avalon RN JC CGCA CGCU TKN & CH
Avalon Dolce Tigrecilla Willowind BN
RE SC BCAT THDA CGCA CGCU TKI,
br: Javier Ocasio, Leigh Paintin & Sandra
Moore, ow: Sandi Taylor

Spryfeat Ambitious Zander On The Run JC
CAA BCAT CGC TKI (D) HP53223804,
15-Apr-2017 by DC K-C Windsheer Wheel
In The Sky SC & FC Silkenswift Shimmer
In The Night MC LCX CGC FCH, br:
Frank & Wendy Erdman, ow: Charlotte
Yealey

Trick Dog Novice (TKN)

RACH Iorek's Bambi CD RM2 RAE2

2019 Top Member-owned Versatility Borzoi

Submitted by Kay Novotny

Editor's note: My apologies for missing this report in the Spring 2020 issue

I am happy to report that BCOA had 6 dogs submitted for consideration for the Annual Versatility Award.

The overall winner for 2019 was:

CH Hemlock Hollow Aruzia Enjoy The Journey BN RE NA NAJ NJP OJP JC, call name Joy. HP 48679401

Congratulations, owners Chris and Paul Danker and Joy! Joy achieved a total score of 100 points! Hearty congratulations to owners Chris and Paul Danker, breeders Christine Danker and Lorrie Scott!

The other applicants and their scores in order:

Score 53.8164: GCH DCH Wildhunt Quantum Singularity Of Ryhka BN RN FDC SC SWN SBA DEA DNA CGCA CGCU TKP, HP 51414701, owned by Ariel Duncan and Diana Darling, bred by Ariel Duncan and Diana Darling.

Score 46.3332: DC Kirov Windrift Fly Above Tahoe JC SC RN RI BN CGCA CGCU FCH, HP 49909003, owned by K C Artley, bred by Barbara Ewing and Nancy Reimer.

Score 40.3375: GCHG Mielikki HiNote Secret Agent Man SGRC RN, HP 44827401, owned by Renee McCartin and Jan Tyler and bred by Renee McCartin and Margaret Strother.

Score 26.7166: GCH DC Hemlock Hollow Aruzia Journey to Tahoe JC SC RN RI BN CGC FCH, HP 48679408, Owners Steven Artley and K C Artley, breeder Christine Danker and Lorrie Scott.

Score 25.05: HnrCH-S AKC UKC INT CH Islehaven Sentinel BN RI FDC SCN SIN SBN SHDN CGCA CGCU TKE SSR RATN WDS TT SPOT-ON, HP 51081903, owned by Linda Beisswenger, bred by Phyllis Potter

Congratulations to all these wonderful dogs for having a great 2019!

Life-time Achievement Versatility Awards

Also, I would like to report that 3 dogs have been submitted for a life-time achievement versatility award. Those dogs are:

SBIS GCHG Mielikki HiNote Secret Agent Man SGRC RN, HP 44827401, owned by Renee McCartin and Jan Tyler and bred by Renee McCartin and Margaret Strother.

GCH DCH Wildhunt Quantum Singularity Of Ryhka BN RN FDC SC SWN SBA DEA DNA CGCA CGCU TKP, HP 51414701, owned by Ariel Duncan and Diana Darling, bred by Ariel Duncan and Diana Darling.

C.I.B., AKC CH, PanAm CH, PR GR CH, LatAm CH Avalon Dark Knight Willowind Del Sol FCh, SC, RN, BN, THD, CGC, CGCU, JOR, BCAT, TT, NOFCA ptd, FDC, TKN, CGCA AKC Fit Dog B.A.R.K. Ranger (Natchez Trace Parkway) HP44574103, owners Kirbie Allen & Stephanie Allen, breeders Sandra Moore-Doby, Diana Embry, Shelby Bergstresser, Susan Van de Water

Congratulations to these dogs and their owners for their lifetime achievements in many disciplines!

NEW TITLE HOLDERS CONTINUED FROM PAGE 28

CGCA TKN (B) HP52608001, 10-Jul-2016, by Velikij Pravda & Vega Shelk Landyssha, br: Anna Akerstrom, ow: Melissa & Dean Eelman

Therapy Dog (THD)

GCH DC Avalon Druid Dance Willowind FDC SC BCAT THD CGCA CGCU TKN (D) HP44574102, 20-Oct-2012, by DC Avalon WNS Rising Sun BN SC CGCA FCH & Avalon Tigress In The Dark JC SC FCH VFCH GRC CC CM ROMX, br: Sandra Moore & Diana Embry & Susan Van De

Water & Shelby Bergstresser, ow: Susanne Cecere & Sandra Moore
Starswift Legacy Of The Force SC THD CGCA TKN (D) HP54591502, 17-Oct-2017, by GCH DC Starswift Let Freedom Ring BN RE SC BCAT THDX CGCA FCH VFCH & CH Starswift Lightning Quick SC FCH, br: Jamie Bobrowski, ow: Martine Burton & Josee Burton & Jamie Bobrowski

Distinguished Therapy Dog (THDD)

GCH DC Starswift Let Freedom Ring BN

RE SC BCAT THDD CGCA TKN FCH VFCH (D) HP44209802, 11-Nov-2012 by DC Téine Twist Of Fate SC FCH ROM & GCH DC Avalon Victoria Cross BN RN SC LCM VFCH, br: Jamie Bobrowski, ow: Martine & Stewart Burton
GCH Zabava Neva BN RA THDD CGCA CGCU TKN (B) HP49852205, 14-Jun-2015 by CH Rising Star Danilov O'Sunbarr JC ROMX-C & GCHS Zabava Ostrov Casablanca ROM-C, Irina Terra & Kristina Terra, ow: Janet Browne. §

Top 5 Awards 2019

(Normally Presented at the National Specialty)

Compiled by Leonore Abordo

ASFA

	Call Name	Registered Name	Owner(s)	Bowens
1	Sir Lancelot	GCh, DC C'Lestial Red Lantern @ Ryhka LCM2,VLCM2,SORC2,LCX	Diana Darling and Liz Green	101
2	Zip	Avalon Perlova Go Darkly LCM	Susan Van de Water MD and Sandra Moore	99
3	Tintaglia	FC Chaya Sars The Black Ice Dragon "Tintaglia" @Ryhka FCh,SC	Diana Darling	83
4	Chase	Del Sol Oxota Chase The Fire FCh	Susan Van de Water MD	72
5	Weston	FC C'Lestial Wild & Wonderful Of Ryhka LCM4,VLCM4,LCX2,SORC2,MC ..	Diana Darling	71

AKC Lure Coursing

	Call Name	Registered Name	Owner(s)	Bowens
1	Legacy	FC Starswift Black Lightning's Legacy SC	Jamie Bobrowski	131
2	Karma	FC Starswift Legacy Lives On SC	Jamie Bobrowski	111
3	Stardust	DC Téine RunTuff Suffragette City SC	Jamie Bobrowski	98
4	Phantom	DC Téine Phantom Of The Opera SC	Anne Midgarden DVM	66
5	Galileo	FC Starswift Bohemian Rhapsody SC CGC	Jamie Bobrowski	56

LGRA

	Call Name	Registered Name	Owner(s)	NRC
1	Kissy-M	Mielikki Gett Off SGRC2	Renee McCartin	31
2	Lyli	Mielikki Heart's Way GRC	Renee McCartin	16.5
3	IndyGo	Perlova Avalon Indy Go Zoiboyz SGRC	KC Thompson & Tom Golcher	15
4	Galileo	Starswift Bohemian Rhapsody GRC	Jamie Bobrowski	14
5	Zadira	CH Avalon Keep On Dancing BCAT GRC	Susanne Cecere	12

NOTRA

	Call Name	Registered Name	Owner(s)	NORC
1	Zadira	Avalon Keep on Dancing ORC	Susanne Cecere	12
2	Zhivoy	Avalon Druid Dance Willowind SORC2.....	Susanne Cecere	3
3	Kane	Zoiboyz Jedawn Resolute Kane	KC Thompson & Tom Golcher	2
4	Ghitana	Gryffyn's Aeyrie Playing With Fire	Rlynn Shell & Victor Whitlock	1.5
5	Mordi	DelSol Morsmordre WindNSatin JOR	Rlynn Shell & Victor Whitlock	1.25

Open Field Coursing

	Call Name	Registered Name	Owner(s)	Points
1	Margot	Avalon Perlova Ready Set Go	Linda Turner	78
2	Kindle	CH Kachina All For Love, CC, CM	Linda Turner and Carol Enz	75
3	Sophie	Kirov Windrift Fly So Free	Barbara Ewing and Nancy Reimer	65
4	JR	Satara Aria Ramblin Man @ Phoenixx	Peter & Jane Schreiber	43
5	Barhatka	Valeska My Oh My	Rey & Yvonne McGehee	39

Obedience

	Call Name	Registered Name.....	Owner(s)	Avg Score
1	Mirage	FC Téine Mirage At Riju SC, CDX, BN, GO, RA, SHDN.....	June Mintchell	
2		CH Katz O' Nellie Of Woodacres' CD, BN, RE, FDC, CGCA, CGCU, TKN....	Rebecca Smith	
3		RACH Iorek's Merlyn CD, BN, RM2, RAE2, CGC, TKN	Melissa & Dean Eelman	
4	Grendel	GCH CH Oxota RiverRun Monster Mash Avalon CD, BN, RA.....	J.J. Moore and L. Abordo	
5		Meyta Prof Higgins BN, FDC, JC, CGC	Joan Tierney	

Rally

	Call Name	Registered Name.....	Owner(s)	
1	Keeper	Del Sol Riju Keeper Of The Flame JC, RN, SWE, SCME, SIME, SEME, SHDN ..	June Mintchell	
2		Konstantin Russian Burgandy CD, BN, RE, NAP, OJP, FCAT, CGC, TKN	Karen Haberkorn	
3		Meilikki Get OFF SC	Renee McCartin & C Poniatowski	
3		CH Timeless Midnight Flyer RN, CGCA, CGCU	Lori Miller	
5		RACH Iorek's Bambi CD, RM2, RAE2, CGC	Melissa & Dean Eelman	

Annual Versatility Award

	Call Name	Registered Name.....	Owner(s)	Points
1	Joy	CH Hemlock Hollow Aruzia Enjoy The Journey BN RE NA NAJ NJP OJP JC	Chris and Paul Danker	100
2		GCH DCH Wildhunt Quantum Singularity Of Ryhka BN RN FDC SC SWN SBA DEA DNA CGCA CGCU TKP.....	Ariel Duncan and Diana Darling	53.8
3	Dawn	DC Kirov Windrift Fly Above Tahoe JC SC RN RI BN CGCA CGCU FCH	K C Artley	46.3
4	Duckie	MBISS MBOSS GCHG CH Mielikki HiNote Secret Agent Man RN, SGRC, VLAA..	Renee McCartin & Jan Tyler	26.7
5	Joe	GCH DC Hemlock Hollow Aruzia Journey to Tahoe JC SC RN RI BN CGC FCH.....	Steven Artley and K C Artley	20.1

Conformation

	Registered Name	Owner(s)	Points
1	MBISS MBOSS GCHG CH Mielikki HiNote Secret Agent Man RN, SGRC, VLAA	Renee McCartin and Janice Tyler	535
2	GCHS CH Majenkir Bookstor Arctos	Karen Staudt-Cartabona, Karen & Howard Spey MD	410
3	GCHG CH Fiery Run Rider On The Storm BCAT	Elizabeth Tolley and David Nutting	405
4	GCHS CH Majenkir Thunderstruck White Storm Rising	Mark & Marie Yoesel	355
5	GCHG CH Crown Jewel Valentina Of Majenkir CA	Jean Durdin	283

National Owner Handled Series

	Call Name	Registered Name.....	Owner(s)	Points
1	Elvis	GCHB CH Zabava Now Or Never.....	Irina Terra/Kristina Terra	1045
2	Delilah	GCHB CH Soyara's Devilish Delilah	Prudence & Gregory G Hlatky	1005
3		GCHB CH Korsakov Love A Mystery At Lost Key BCAT RATN CGC TKP	Rhonda Robins	385
4		GCHG CH Lagniappe Cajun Zydeco Bon-Ton BCAT	Cynthia & Michael J Michalak	325
5		GCHB CH Sylvan Elance Summerlane's Limelight.....	Patti & Christopher Neale & Anne Quinn & Cherie Hunchak	260

Juniors

	Name
1	Molly Forsyth
2	Raina McCloskey
3	Logan Yankowski
4	Elise Patti
5	Samantha Kadinger

Aristocrat Mission Statement

The Aristocrat is the official publication of the Borzoi Club of America and is published quarterly in order to inform, educate and entertain the members by providing historical and current information on the Breed and issues affecting the well-being of our Borzoi.

Statement of Intent:

It is the intent that the Aristocrat:

- Serve as a record of BCOA and its activities
- To provide a convenient forum for the reporting of statistics on the accomplishments of the members in conformation and performance events.

Policies

- Deadlines for submission of material for the Aristocrat are February 15, May 15, August 15 and November 15. A separate Specialty issue may be offered so that the results can be published as soon as possible after the National.
- Deadlines established by the Aristocrat Committee will be strictly adhered to.
- The right to reasonably edit all material or refuse to print material thought to be questionable or not in the best interest of the breed or Club is reserved by the Aristocrat Committee and the Editor.
- Only signed letters or articles will be accepted for use.
- Only Borzoi-related artwork will be utilized for the cover of the Aristocrat. If artwork is not available for a particular issue then the Club Logo shall be utilized for the cover.
- The following material will be published in the Aristocrat issue immediately following the National Specialty:
 - o Photos of the recipients of the Annual Awards in:
 - ☐ Conformation
 - ☐ Best Opposite Sex in Conformation
 - ☐ Obedience
 - ☐ Rally
 - ☐ Agility
 - ☐ Open Field Coursing
 - ☐ Lure Coursing
 - ☐ LGRA
 - ☐ Breeder of Top Conformation Borzoi
 - ☐ Top Junior Showman
 - o Photos of the Specialty Conformation and Performance Winners
 - o Judge's critique of Conformation classes
 - o Catalog pages and performance results
 - o Candid photos as available

Guidelines

- Articles submitted by BCOA Committee Chairs will be included as available
- Any claims or statements by writers in the Aristocrat represent their own opinions and are not necessarily those of the Aristocrat Committee or the Officers and Directors of the Borzoi Club of America.
- All content is subject to the final approval of the Aristocrat Committee.
- Results and photos from BCOA Trophy Supported entries will be included as provided by the TSE Show Chairman.