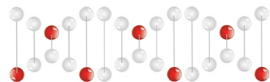




GENETIC NEWSLETTER



Crufts 2025

We are very pleased and excited to announce that we will be at Crufts again this year, which is always a fantastic event that we look forward to. It is always pleasure meeting breeders whether they come to drop off a sample, to have a chat about a test, suggest a new bundle, enquire about coat colour inheritance or just to say hi. Crufts is always a great opportunity to talk to breeders about their testing requirements and to see what we can do to help. Again our ever popular **10% Crufts discount** will be available this year too. Visit our stand at Crufts this year, it is in **Hall 3 Stand 20**.

Dog Genetics XXL bundle

Comprehensive Canine DNA bundle

NEW TEST



Unveil the secrets of your dog's DNA with the comprehensive Dog Genetics XXL bundle, which analyzes over 340 genetic variants to provide you with detailed insights into your dog's health, characteristics, and genetic makeup. This all-inclusive test is perfect for both purebred dogs and mixed breeds.

Multocular Defect in Old English Sheepdog

Dogs affected by Multocular Defects (MOD) typically suffer from cataracts, which in advanced stages lead to loss of vision. Other clinical signs may include: small lens (microphakia), splitting of the lens (coloboma), enlarged eyeball (macrophthalmia), retinal folds and detachment, vitreous disease (vitreopathy) and secondary glaucoma. The age at diagnosis is variable (0.5-10 years), with an average age of about 2 years.



NEW TEST

Cleft Lip, Palate and Syndactyly (CLPS)

in Nova Scotia Duck Tolling Retrievers

Another genetic variant causing cleft palate in Nova Scotia Duck Tolling Retrievers has now been identified, and our test detects both variants. both inherited in an autosomal recessive pattern

NEW TEST

Paradoxical Pseudomyotonia (PP)

in English Cocker and English Springer Spaniels

NEW TEST

The disease is characterized by episodes of muscle stiffness that are triggered by exercise. These episodes occur suddenly during exercise and cause a generalized myotonic-like muscle stiffness..

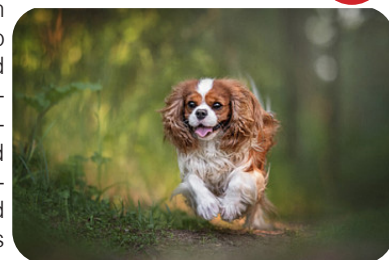


Primary Immunodeficiency type 2 (PIPS2)

in Cavalier King Charles Spaniel

NEW TEST

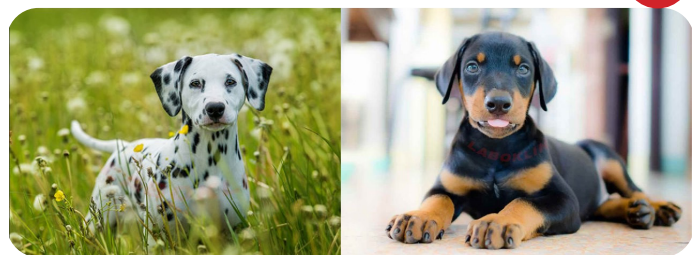
Affected animals show an increased susceptibility to respiratory pathogens and display symptoms of refractory pneumonia. In the medical history of the affected dogs, infections with gastrointestinal parasites and chronic diarrhoea as well as skin diseases and abscess formation were documented.



Lysosomal Storage Diseases (LSD)

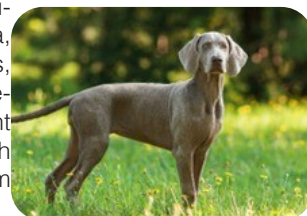
in Dalmatian, Doberman and Weimaraner

NEW TEST



Lysosomal storage diseases refer to a collection of disorders characterized by the body's inability to produce essential metabolic enzymes. Lysosomes serve as cellular 'recycling centres' converting worn-out materials into substances that cells can utilize. When specific metabolic enzymes are lacking, the unprocessed material accumulates, leading to tissue damage and eventual failure of organ systems.

Symptoms include decreased vision, changes in behaviour, ataxia, incoordination, lethargy, weakness, tremors, seizures, stiff gait and dementia. Please note that the variant which cause the disease in each breed is different. We will perform the test that is relevant to the breed.



GENETIC NEWSLETTER

X-Linked Retinal Dysplasia (RD / TRD) in English Cocker Spaniel

NEW TEST

Retinal dysplasia (RD) is an inherited disease caused by abnormal development of the retina, which is the layer of cells at the back of the eye, resulting in vision impairment from the time the eyes first open. In Cocker Spaniels, this form of RD presents as total retinal detachment and severe visual deficits by 6 weeks of age. It is caused by a genetic mutation in the NDP gene, which is located on the X chromosome. Consequently, male dogs will be affected if they carry one copy of the defective gene.



Startle Disease in Old English Sheepdog

NEW TEST

Startle disease, or hyperekplexia, is a genetic condition found in some dogs, including Old English Sheepdogs. It affects the brain's ability to control muscles due to a problem with glycine transport. Puppies with this disease show symptoms like stiff muscles, shaking, and difficulty standing or walking. These symptoms get worse with activity. They might also have trouble breathing while nursing. Sadly, affected puppies often need to be put to sleep.



Microphthalmia Portuguese Water Dogs

NEW TEST

A genetic variant in the DNA-JC21 gene in Portuguese Water Dogs causes microphthalmia with haematopoietic defects. Affected dogs have significantly reduced eye size and may also exhibit cataracts, corneal dystrophy, microphakia/aphakia, glaucoma, retinal lesions, and persistent pupillary membranes. Other symptoms include enamel changes, growth retardation, thrombocytopenia, and anaemia.



Dilated cardiomyopathy (DCM) in Nova Scotia Duck Tolling Retrievers

NEW TEST

Dilated cardiomyopathy (DCM) is a heart muscle disease where the left ventricle becomes thickened, dilated, and weakened, impairing the heart's ability to pump blood. In Nova Scotia Duck Tolling Retrievers, DCM is linked to an autosomal recessive variant in the LMNA gene. The condition causes sudden accelerated heart activity, mitral valve malformations, and myocardial fibrosis. Onset varies, but DCM can cause sudden death as early as 10-15 months.



Bunny Hopping Syndrome (BHS1) in Weimaraner

NEW TEST

Bunny Hopping Syndrome (BHS1) in Weimaraners is an autosomal recessive movement disorder caused by a neurological defect. Normally, nerve fibres travel on one side of the body, but in BHS1, they switch sides, disrupting movement control. Affected dogs hop with both hind legs, resembling a bunny's gait. Unlike shaking puppy syndrome, the gait does not improve, often leading to euthanasia due to the lack of a cure.



New DNA Breed Specific bundles

Our DNA bundles include the most relevant DNA tests for your breed at discounted price!

Dachshund 2 DNA bundle:

CDDY / CDPA + OI + NCL + cord1 / crd4-PRA + crd-PRA

Continental Bulldog DNA bundle:

Cystinuria + DVL2 + B-Locus

Great Dane DNA bundle:

DM Exon 2 + Congenital Ichthyosis + CNM + LEMP

Bull Mastiff DNA bundle:

DM EXon 2 + CMR + Cystinuria + MFE + dom-PRA

Manchester and Toy Terrier DNA bundle:

DCM + vWD Type 1 + Xanthinuria type II

Samoyed DNA bundle:

AI / FEH + Hereditary Nephritis (FN) + XL-PRA

Havanese DNA bundle:

DM Exon 2 + F8 + IVDD-risk + MTC + Furnishing

Coat (Hair) Type / texture DNA bundle:

CL I + CL II + Curly Coat C1 + C2 + Furnishing (Improper Coat)

Dog Genetics XXL bundle

Comprehensive Canine DNA bundle, which analyzes over 340 genetic variants to provide you with detailed insights into your dog's health, characteristics, and genetic makeup.

update Vizsla DNA bundle now includes:

DM + ECLE + NCCD + HUU/SLC + Coat Length + Furnishing

update Poodle Pack 2 DNA bundle now includes:

DM + NEWS + prcd-PRA* + rcd4-PRA / LORPA + vWD Type I + Coat Colours (A, B, D, E, I, S and K Loci)

update English Springer Spaniel DNA bundle now includes:

AMS + FN + Cord1-PRA* + Fuco + PFKD + SPS + DAMS

update Cavalier King Charles Spaniel Pack B DNA bundle now includes:

EF + DryEye + MCAD + MMVD + MTC

update White Swiss Shepherd DNA bundle now includes:

DM + MDR1 + Pituitary Dwarfism + CL I + CH

New Kennel Club DNA testing Schemes

- Degenerativ Myelopathy DM Exon 2 in *Rhodesian Ridgeback*
- GM1-Gangliosidosis in *Shiba Inu*
- GM2 Gangliosidosis Variant 0 (Sandhoff Disease) in *Shiba Inu*