



Weltweit ältester Förderverein für die Hunderassen Tibets - gegründet 1967
Mitglied im Verband für das Deutsche Hundewesen e.V. und in der Fédération Cynologique Internationale



Internationaler Klub für Tibetische Hunderassen e.V.

Professor Distl and Mrs. Dr. Wöhlke presented us to 23.09.2009 the newest research results to the NCL/CCL.

In Hannover they developed a genetic test which can identify at security of bordering probability in which category your Tibetan Terrier belongs:

- a. **Genotyp** (homozygot – healthy): This dog does not carry the mutation and has an extremely small risk at CCL to get sick. It cannot pass the mutation on at its descendants.
- b. **Genotyp** (heterozygoter – carriers): This dog carries a copy of the mutated gene. It has to get sick an extremely small risk at CCL, can pass the mutation with a probability of 50% on to its descendants. Such a dog should only be mated to a mutation-free dog.
- c. **Genotyp** (homozygot – affected): This dog carries two copies of the mutated gene and has an extremely high risk at CCL to get sick. It will pass the mutation on to 100% at its descendants.

Only with the statement (C. Genotyp) whether its animal has two copies of the mutated (ill) gene lies the accuracy with 90%. This is because of the fact that due to of missing statements or no longer comprehensible statements, which are controllable not free of doubts datat.

Here the research will hopefully continue. KTR, ILT and CTA placed a request together against the GKF and pleading for financial support around the project to finish it. But it is necessarily to test more dogs. Therefore you let your dog test.

The cost of the NCL/CCL – test is for dogs which have blood already stored with the KTR data base 32 EUROS (from 2010 40 Euros)

Please fill in the form of KTR.

For Tibet Terrier, by which no blood on the KTR data base is stored. The blood is to be send to the following address:

Prof. Dr. Ottmar Distl
Institute for Animal Breeding and Genetics
University of Veterinary Medicine Hannover
Buenteweg 17 p
30559 Hannover, Germany

The costs are 45 EURO

Please fill in the form of the University of Veterinary Medicine Hannover

Dogs with pure english pedigrees – please go in contact with Anke Peine



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Request to the DNA - evaluation of the blood tests stored at present in Hannover

You would like to let your Tibetan Terrier test for NCL/CCL

Give please to the names of the dog and/or the blood storage number

NCL: Neuronale Ceroid Lipofuscinosis / **CCL:** Canine Ceroid Lipofuscinosis

Name des Hundes: Name of the dog:	oder > or	Bluteinlagerungs- Nummer: DNA Blood storage number	NCL/CCL
E-Mail: Anschrift: Address:			

With your signature you explain to take the developing cost and to transfer the money on the account of the KTR No. 222416 606 BLZ: 500,100 60 Postbank Frankfurt am Main **IBAN: DE44 5001 0060 0222 4166 06 BIC PBNKDEFF**

Date and signature

Please send to: HZW@tibethunde-ktr.de od. Anke Peine, Am Heukamp 4, 59199 Bönen

Lab entry Tibetan terrier:	Lab. number: TT-
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Sample handling for canine DNA research and DNA testing in Tibetan terriers

We welcome your participation in the canine research projects and/or DNA testing in Tibetan terriers. These projects are jointly performed by Tibetan terrier breeders, the International Klub für Tibetische Hunderassen e.V. (KTR), International Club für Lhasa Apso und Tibet Terrier e.V. (ILT), the Spezialclub für Tibet Terrier und Lhasa Apso e.V. (CTA) in Germany and the Institute for Animal Breeding and Genetics of the University of Veterinary Medicine Hannover (TiHo) in Germany. We establish a DNA-bank for the Tibetan terrier aiming at to investigate inherited diseases and conditions using molecular genetic techniques. **Canine ceroid lipofuscinosis (CCL, NCL)** is of special interest for an actually ongoing project. The samples collected will be exclusively at the disposal for research projects at the Institute for Animal Breeding and Genetics of TiHo. DNA extracted from these samples will be delivered to third parties only in the case when the owner of the dog will authorize us. Following points need your attention when a blood sample is collected and shipped:

1. The blood sample should be taken as sterile as possible. Ideally, 5 cc's of whole blood should be placed in the tube by the veterinarian. For very young dogs and puppies, 3 cc's are sufficient.
2. The tube should be coated with an anticoagulant. We recommend **EDTA-K monovettes**.
3. The sample has to be labeled with the ID of the dog (registered number of the dog, name of the dog and kennel, country code). Puppies have to be registered (chip, tattoo number, ID of the kennel club) before a sample is taken.
4. Please complete the individual dog information form and include a pedigree copy to tie in the correct ancestors.
5. The sample should be shipped immediately. If samples are held for a day or over the weekend, blood must be cooled at 4 °C. If samples are held for a longer time, blood must be refrigerated at -20 °C.

CUSTOMS STATEMENT that must appear on package: Canine whole blood for DNA extraction – not exposed to any infectious agents.

Please provide following information for us:

Name and address of the dog's owner:

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Country: Email: Fax:

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Name and address of the veterinarian:

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Signature of the vet to confirm the ID of the dog:

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Sex of the dog: male female Kennel club:

Birth date: Date of investigation for CCL:

Diagnosis of CCL: yes no Examination by a veterinarian/pathologist: yes no

Other diseases:(please add vet's diagnosis)

Name of the dog and its kennel name:

Registered number of the dog:

Chip-/Tattoo no. of the dog:.....

Registered number of the dog's sire:

Registered number of the dog's dam:

I hereby request a DNA test for CCL from the sample enclosed and confirm that the sample enclosed has been collected from dog described above.

Signed:

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Please include payment of 45.00 Euro. Cheques should be made payable to the Institute of Animal Breeding and Genetics, 30559 Hannover, Germany.

We appreciate to receive a copy of the official pedigree certified by the kennel club. Our investigations include a scientific use of some of the results. All data used in scientific publications will be made anonymous and thus the ID of the dog or the owner of the dog can not be inferred. Herewith, I confirm that the EDTA blood sample of the dog can be used for scientific projects and I agree on the anonymous use of the scientific data.

Date _____ and _____ signature: _____

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Please send samples to:

Prof. Dr. Ottmar Distl
Institute for Animal Breeding and Genetics
University of Veterinary Medicine Hannover
Buenteweg 17 p
30559 Hannover, Germany
Phone: +49-511-953-8875; Fax: +49-511-953-8582
Email: ottmar.distl@tiho-hannover.de