



Atomic Girl de la Terrardière

## Krabbe disease

### Definition

This disease (also called *cellulaire leucodystrophy globoïde*) is due lack of destruction of a lipidic element by the organism (fat element) belonging to the **myeline** (Coat of protection of neurones, that is nerve cells): the **galactocérébroside**. This is the **consequence of the enzyme called galactocerebrosidase**, what lead to accumulation of galactocérébrosides in the organism. This pulls the accumulation of a called **psychosine substance in the nervous system**, what provokes the destruction of the cells which produce the myeline, the oligodendrocytes.

The mutation responsible of the disease is located in the **GALC gene**

### Symptoms

Affected puppies present a lower growth as the other puppies of the clutch. From 3 to 6 months or sometimes later from 1 to 4 year they developp progressiv signs of the disease : Shivers, stiff approach, general weakness, disorders of the proprioception (together receivers, ways and nerve centres implied in the perception), **modifications at the level of the vision or the behavior**. This disease can lead to death. This disease is said **autosomale** (connected to a single gene) **recessive** (the animal has to inherit from the gene moved by each of these parents to be declared affected). The pathology was described at the Cairn Den and West Highland White Terrier.

### Modalities

To realize the DNA screening of this disease, a simple oral smear or a blood test allows us to make the analysis. On simple request of your part, we send you a free of charge kit of oral or blood taking. At reception of your taking in the laboratory, only 10 working days are enough so that you have your results by email.

For more information, do not hesitate to contact us !

