

Curcuvet® * and the expression of inflammatory enzymes in osteoarthritis dogs

* Veterinarian brand of Meriva®



Nature of the study: Randomized Comparative study vs. Firocoxib

Animals: 12 osteoarthritic dogs and 6 healthy dogs

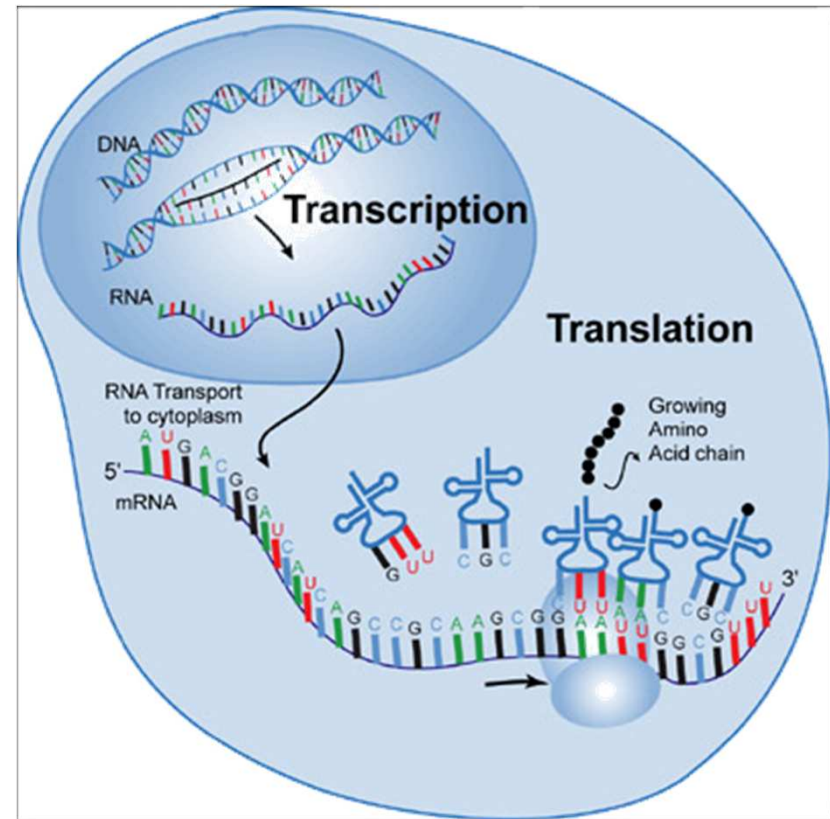
Dosage: 2 x 4 mg Curcuvet® /Kg/die vs 5 mg/Kg/day of Firocoxib

Duration: 20 days

End Point: modification of expression of the whole *Canis familiaris* genome after treatment with curcumin and NSAIDs.

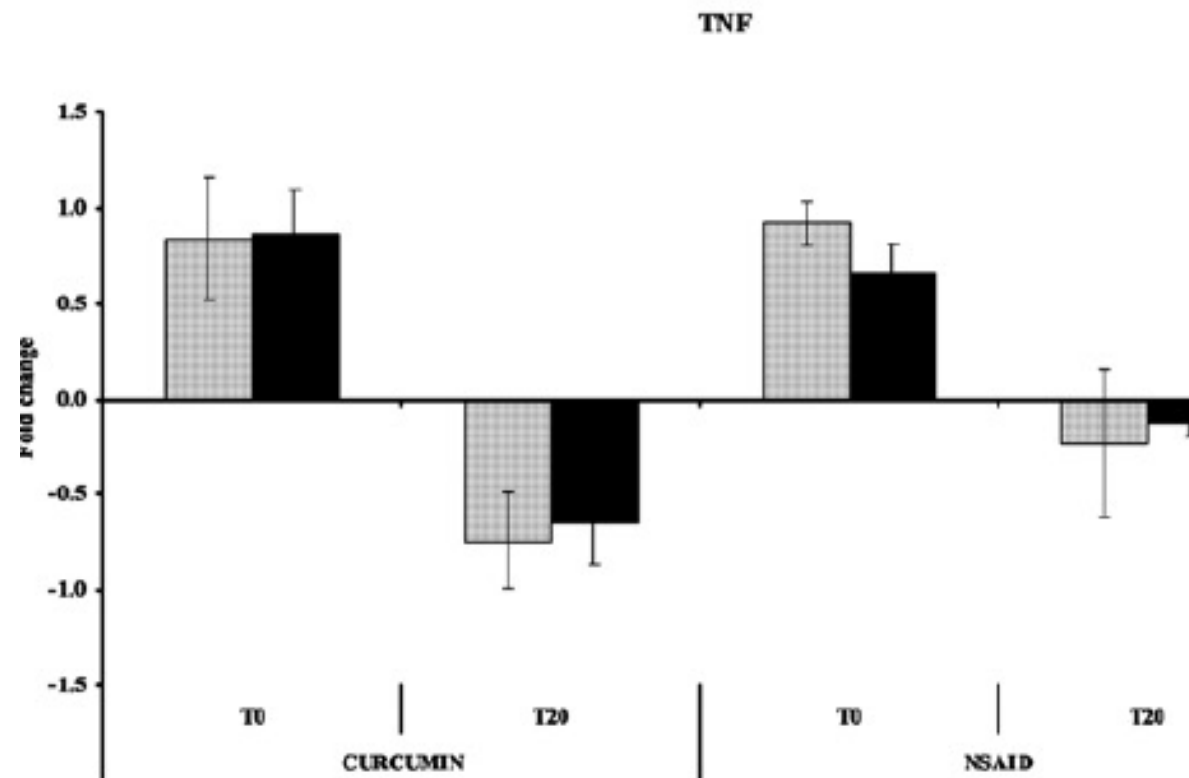
Curcuvet[®] regulates the expression of the molecular targets of inflammatory responses

- Both treatment downregulated genes involved in Inflammatory response development and function of connective tissue
- **Curcuvet[®] selectively**
 - **Upregulated IκB**
 - **Downregulated TNFα and IL1β signalling pathways**



Colitti , M. et al *Vet. Immunol. Immunopathol.* 2012, 147, 136- 146

Curcuvet[®] regulates the expression of the molecular targets of inflammatory responses



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Curcuvet[®] and NSAIDS are complementary

- NSAIDS inhibit the **activity** of the COXs, the enzymes that produce prostaglandins
- Curcumin inhibits the **production** of COXs, acting at the level of the transcription of their genes

