

# Cicle de Conferències

2012-13

Sessions Científiques  
en les àrees d'Enginyeria  
i Biociència

*Seminari*

## “The use of cytogenetics in animal breeding and selection”

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Cytogenetics is a genetics discipline that concerns the study of the structure and function of the chromosomes. It includes routine analysis of G-banded chromosomes, other cytogenetic banding techniques, as well as molecular cytogenetics such as fluorescent in situ hybridization (FISH) and comparative genomic hybridization (CGH).

The importance of cytogenetics in the breeding and selection of animals of economic interest becomes reality in 1964 when was published the first chromosomal abnormality in cattle. The evidence of large negative influence of these anomalies on fertility mean that today cytogenetic analysis represent an indispensable tool for modern animal selection.

The most recent results obtained in this discipline and future prospects will be presented.

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