








# Animal Cytogenetics and Genomics

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The research activities aim to the genetic improvement of farm animals and both human and animal health monitoring by integrated approaches:

- Genetic selection of free chromosome abnormality reproducers, cause of ipofertility or sterility, through karyotype analysis.
- Phylogenetic comparison studies among the major livestock species, through high resolution banding techniques and comparative FISH analysis.
- The extension of cytogenetic maps of farm animals, through FISH analysis, essential for advanced studies of genes related to both fertility and qualitative-quantitative animal productions.
- Environmental monitoring, through “animal sentinel systems” (local animals), gives health information by chromosome damage analysis, due to the presence of several environmental contaminants, potentially hazardous to other animals or humans.

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