



The LAGENBIO group carries out its research, development and innovation activities in molecular genetics and cellular biology on the level of fundamental research as well as applied to animal production, health, and the bioindustry. LAGENBIO is a founding member of the International Society for Animal Genetics (ISAG), and the only laboratory in Aragon participating in that society's international comparison test that uses genetic markers to identify individuals pertaining to several animal species (bovine, equine, ovine, porcine, caprine, and canine), thus obtaining international differentiation and parenthood information on each of those species. Due to its widely recognized activity in the area of animal genetics, the Government of Aragon has selected LAGENBIO as a Regional Animal Genetics Benchmark Centre. Apart from fundamental research, the group has established a considerable number of standing agreements and service cooperations with associations and individuals in the agrifood and health sectors, with the aim of transferring innovative methodologies in the area of molecular and cellular genetics to the agricultural and food sectors for their improvement.

LINES OF RESEARCH

- Preservation of the biodiversity of local breeds of domestic animals with the goal of achieving sustainable local development
- Quality and safety of food products for human and animal consumption.
- Genetic basis, diagnostic, and pathogeny of animal and human diseases.
- Innovative therapies and biomarkers for neurodegenerative diseases and ageing processes.
- Therapies based on regenerative medicine in several domestic animal species.

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PROYECTOS DESTACADOS

- Epigenetics on the ALS-FDT spectrum: understanding phenotypic variability and new advances in personalized medicine (II). INSTITUTO DE SALUD CARLOS III. (01/01/2022 - 31/12/2024).
- Genetic studies of Infectious Bovine Rhinotracheitis (IBR) within the project: Innovation in the process of defining and eradicating IBR in bovine farms in Aragon – IbovinR Aragón. SAT - Nº 188 RL - GANADERA PARDA DE MONTAÑA. (01/09/2021 - 15/10/2024).
- PID2020-116352GB-I00. Interaction of nduced pluripotent stem (IBS) cells with the immune system in an equine model: a necessary step in developing and applying advanced therapies. AGENCIA ESTATAL DE INVESTIGACIÓN. (01/09/2021-31/08/2024).
- PDC2021-121047-I00. ALLO-EQUIBANK: A bank of mesenchymal stem cells destined for allogeneic therapies. MINISTERIO DE CIENCIA E INNOVACIÓN. (01/12/2021 - 30/11/2023).
- Canine idiopathic epilepsy: cognitive-behavioral alterations, genetic basis, biomarkers, and involvement of intestinal microbiota in its development. GOBIERNO DE ARAGÓN. (18/09/2021 - 30/09/2023).

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