

GLOMICAVE project aims to combine and analyse different types of omic data to obtain relevant information and discover new links between animal, vegetable and environment's phenotype and genotype.

The project is developing an innovative **multi-omics data analysis open platform relying on Big Data Analytics and Artificial Intelligence** and using publicly available and experimental omic datasets.

GLOMICAVE addresses the need to build systems that allow the use of primary data and analytical processes and support large-scale omic experiments, thus **maximising the utility of omic data at a massive level and understanding of biological systems as a whole.**



Animal sector

Validating the platform in two business cases focused on livestock, the fertility level of these animals and the beef cattle quality



Vegetal sector

The platform will be validated to predict fruit quality and to identify biomarkers in order to improve yield and generate designer plants



Environmental sector

Two business cases focused on the identification and characterisation of microbes and microbial consortia in terms of phosphorus recovery and bioenergy production



GLOMICAVE platform presents a novel and unique integration of structured data from omics datasets with information without a pre-defined organised model, stored in text documents or similar sources, with a variety of formats

MORE INFORMATION

www.glomicave.eu
@Glomicave_EU
info@glomicave.eu



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