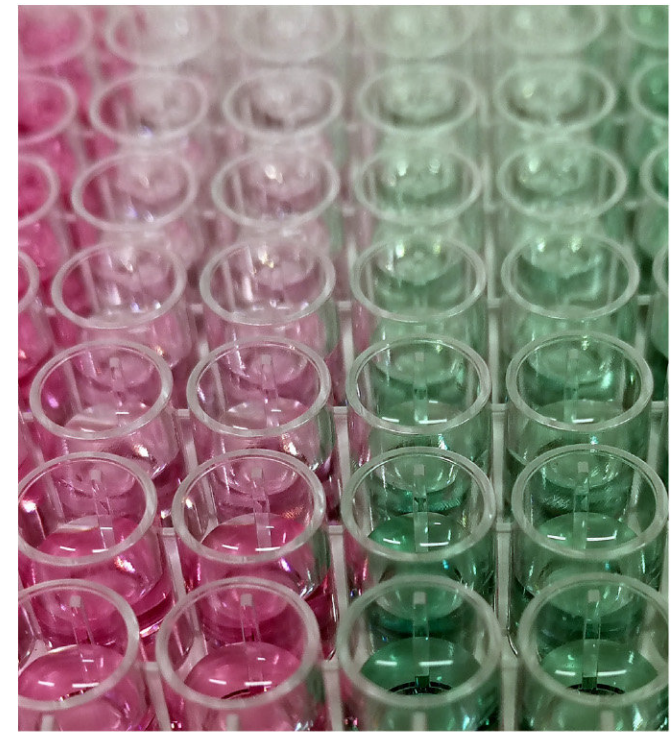


BioVetMed was established officially in 2017 as a research group of the Veterinary School at the University of Murcia.

The objectives of BioVetMed research group is to monitor animal health status and welfare using biological specimens which involve no-invasive and minimally stressful sampling procedures.

BioVetMed is focused on farm animals, mainly pigs and cows. However, the collaboration with other institutions and companies allows a global implementation of BioVetMed knowledge in veterinary medicine.



BioVetMed Team



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Biomarkers in Veterinary Medicine

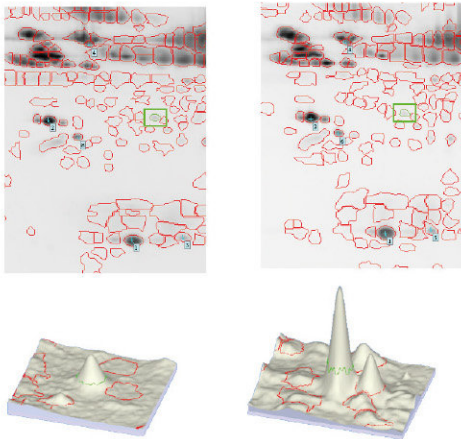


Services

Proteomic Lab

Main objectives:

- **Basic research** for the Discovery of new protein biomarkers in biological specimens such as saliva or serum.
- **Study of protein** pattern alterations due to specific health status or welfare conditions using gel electrophoresis.
- **Validation** of dysregulation in the expression levels of proteins by western blotting.



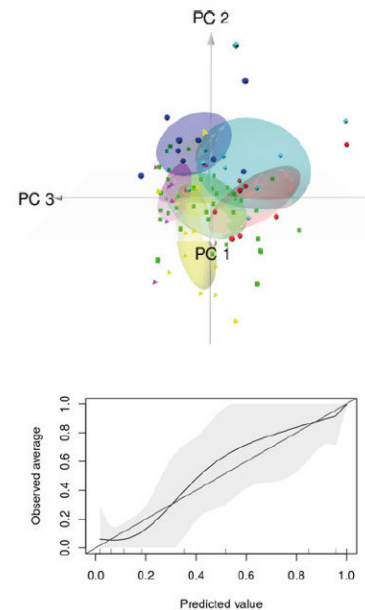
Services offered:

- **Identification** of new biomarkers of emerging diseases.
- **Confirmation** of protein expression of aberrant isoforms.
- **Optimal** biomarker panel detection for the technological development of quantification assays.
- **Study** of the molecular pathways involved in specific diseases.
- **Validation** of proteins as biomarkers.

Analytic lab

Main objectives

- **Establishment of reference range intervals** of biomarkers in saliva and serum specimens.
- **Development of specific assays** for the quantification of new biomarkers of psychological stress, oxidative stress, inflammation, immune status or acute phase reaction.



Services offered:

- **Global analysis of the health status** of the farm animals (health and welfare status).
- **Detection of the body's defence system** altered under specific conditions.
- **Effectiveness follow-up treatment** of diseased animals.
- **Animal health and welfare monitoring** in specific management or biosecurity conditions that could influence animal status directly or indirectly.



Pigs



Horses



Cows