

FBF-Projects

Animal Reproduction

Issues of research

- Quality management in A.I. centres
- Durability of liquid preserved boar semen
- Survival of sperms after insemination
- Decrease osmotic stress of bull sperm during cryoconservation

Genome Analysis

Issues of research

- Transfer results of functional genomics research in breeding systems
- Metabolic and genomic analyses of milk for dairy cattle health
- Genomic selection
- Genetic markers for resistance to porcine respiratory tract infections



FBF Members



Biotechnology Research (FBF)

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Biotechnology Research

The future of breeding dairy cattle and pigs



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Idea

The Association for Biotechnology Research (FBF) is a non-profit registered association supporting research projects in the field of animal reproductive biology and genome analysis.

- FBF is the umbrella organisation for Small- and Medium-Sized Enterprises (SME) in Germany, Austria and Switzerland
- The members are A.I. and breeding organisations in the dairy and pig sector
- The aim is the improvement of animal breeding notably by promoting innovative methods
- Financing is provided by private funding
- Choice of research topics by FBF

FBF makes sure that

- research projects are practically oriented
- results of projects are available for all member
- industrial research is implemented by the member organisations

Animal Reproduction

In cooperation with two reference laboratories FBF has established a semen quality standard. This covers sperm quality monitoring using advanced methods, analysis of semen processing, regular training of A.I. station personnel, and the work according to semen processing guidelines.

The products of FBF members who participate in the pig project are characterised by the ZDS label.



Genome Analysis

For economically important traits there is great interest in better knowing the genetic background. Therefore FBF supports research and development projects in genome analysis.

In the dairy sector the scientific genome research started with detecting genes for the trait "somatic cell score" (SCS) and "milk protein content".

The genome project in the pig sector started with detecting genes for hereditary defects (inverted teats, hernia).



Because research is of common interest and funding is necessary, the Federal Ministry of Education and Research

in Germany promoted the *functional genome analysis in animal organisms* (FUGATO).

Within the scope of these projects there is a close collaboration between research institutes and industry.

The results from the previous projects will be transferred into practice with the help of genomic selection.

Innovation process

FBF operates as "compiler" from research to industry. Its members are responsible for the implementation.

From scientific project to application

