



Feed-a-Gene



Adapting the *feed*,
the *animal* and the *feeding*
techniques to improve the efficiency
and sustainability of monogastric
livestock production systems

Feed-a-Gene aims to better adapt different components of monogastric livestock production systems (pigs, poultry and rabbits) to improve the overall efficiency of these systems, to reduce their environmental impact, and to enhance food security whilst maintaining food quality. Expected results include:

- ▶ **Alternative feeds and feed technologies** to make better use of local resources, green biomass and food and biofuel by-products.
- ▶ Methods for **real-time characterization** of the nutritional value of feeds.
- ▶ **New traits of feed efficiency and robustness** to select more adapted animals.
- ▶ **Models of livestock functioning** to better predict nutrient and energy utilization.
- ▶ New **management systems for precision feeding** and precision farming.
- ▶ Evaluation of the **sustainability** of those systems.

Those technologies will be demonstrated and disseminated in collaboration with industrial partners and farmers' organisations.

Feed-a-Gene at a glance

9.9 M€

EC contribution
9.0 M€

5 years

March 2015
February 2020

23

partners
9 countries



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6 R&D work packages

- WP1** Alternative feed ingredients and real-time characterization
- WP2** New traits for innovative feeding and breeding strategies
- WP3** Modelling feed use and mechanisms
- WP4** Management systems for precision feeding
- WP5** Use of traits in animal selection
- WP6** Sustainability assessment of the production system

plus 1 Dissemination WP and 1 Management WP

23 partners

- INRA
- Wageningen UR
- Newcastle University
- Universitat de Lleida
- IRTA
- Kaposvár University
- Aarhus University
- China Agricultural University
- Topigs Norsvin
- Cobb
- Hamlet Protein
- Bühler
- DuPont
- Exafan
- Claitec
- INCO
- Gran Suino italiano
- ACTA
- IFIP
- ITAVI
- Terres Inovia
- AFZ
- INRA Transfert

Stakeholders

- Farmers and cooperatives
- Genetics and breeding companies
- Producers of compound feeds, ingredients and additives
- Equipment manufacturers and IT solutions providers
- Food industry and retailers
- Extension services, technical advisors, consultants
- R&D organisations, academic institutions
- Networks and associations
- Consumer organisations

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