COST Action FA1401

European network on the factors affecting the gastro-intestinal microbial balance and the impact on the health status of pigs (PiGutNet)
The PiGutNet network

- 22 EU countries

- ✓ 49 Research Institutions
- ✓ 10 companies
- ✓ 5 breeders associations
- ✓ (EAAP)

+ ✓ 3 extra-EU countries
  - - 3 Research institutions
The main objective of the Action

Increase the knowledge about the effect/interaction of environmental and genetic factors on the composition of the microbiota in the gastrointestinal tract of pigs and to improve the risk management associated with antibiotic resistance in pig production.
SCIENTIFIC FOCUS

Factors affecting the gastro-intestinal microbial balance

4 GAPS TO CONSIDER:

Gap 1 • Molecular microbiology

Gap 2 • Environment and host genetic

Gap 3 • Feeding strategies

Gap 4 • Antibiotic resistance
SCIENTIFIC WORK PLAN

PiGutNet

WG1 Microbial characterization

WG2 Genetic / Environment

WG3 Feeding strategies

WG4 Antibiotic and dysbiosis

WG5 Dissemination
Session 61 -
Genetic and environmental factors to understand dysbiosis in the GI tract of pigs
Session 61 - Genetic and environmental factors to understand dysbiosis in the GI tract of pigs

Invited speaker

Prof. Thomas Thymann - Associate professor - Department of Veterinary Clinical and Animal Sciences - University of Copenhagen

Title of the Speech: “Microbes, diet and host, - how do they interact in newborn piglets?”

Invited speaker

Dr Jordi Estellé - Researcher - INRA, UMR Génétique Animale et Biologie Intégrative - Jouy-en-Josas, France

Title of the Speech: “The porcine gut microbiota: composition and links with host’s genetics and phenotypes”
Session 61
Genetic and environmental factors to understand dysbiosis in the GI tract of pigs

Oral presentations:

**Hulsegge, B.** - Delineating spatio-temporal processes in the gut mucosa of pigs

**Maushammer, M.** - The effect of host genetics factors on shaping pig gut microbiota

**Lauridsen, C.** - FUT1 gene polymorphism: impact on gut microbiota, immune response and metabolomic profile of piglets

**Motta, V.** - The A0 blood groups effect on the porcine gut microbiota colonization

**Leblois, J.** - Impact of high-wheat bran diet on sows’ microbiota, performances and progeny’s growth and health

**Kar, S.K.** - Effects of dietary protein sources on intestinal and systemic responses of pigs

You are kindly invited to visit the poster session
The PiGutNet network thanks you for attending the “Session 61”

For more information on PiGutNet and to join the network:

Chair: **Prof. Paolo Trevisi** - paolo.trevisi@unibo.it

Vice-Chair: **Prof. Jürgen Zentek** - Juergen.Zentek@fu-berlin.de

Website:
- www.pigutnet.eu/
- www.cost.eu/COST_Actions/fa/FA1401