GD Biotech
INNOVATION & EXPERTISE

WHITE PAPER

EXPERTISES & SERVICES FOR ANIMAL NUTRITION

2026

https://www.gdbiotech.eu

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EXPERTISES & SERVICES FOR ANIMAL NUTRITION

GD's GALAXY

LIVESTOCK BREEDING

~ 17 000 farms served in bovine, porcine, equine, caprine, ovine

LIVESTOCK ADVISORY SERVICES

~ 3800 dairy breeders

~ 1 750 000 milk samples /year

TESTING LAB AND FIRM SERVICES

~ 85 000 genotyping/year*

~ 4 000 microbiota analyses/year



*Cofrac Accreditation Testing, N°1-7320, scope available on www.cofrac.fr

FIELD STUDY



" Accelerate the development and market adoption of your solutions with field trials conducted under real-world dairy farming conditions "

THE COWTOLAB® PROCESS

① Definition of your objectives
② Selection of the farms best suited to your needs
③ Deployment of the field trial and monitoring of its progress
④ Help you turn data into actionable insights

Qualified technicians for animal handling, biological sampling and experimental procedures

GD BIOTECH's SERVICES

- Weight gain, Milk production, Mortality rate…
- Somatic cell count, Protein content, Fat content
- Metabolic Energy Status → Risk of ketosis and negative energy balance
- Urea → Ration balance
- Fatty acids → Feed intake and energy losses
- Feed ratio analysis → Mycotoxins and mineral nitrogen residues
- 16S/18S microbiome analysis
- Whole Genome Sequencing (WGS), Transcriptomics (RNA sequencing), Epigenotyping...
- Targeted qPCR and Serology

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EXPERTISES & SERVICES FOR ANIMAL NUTRITION

MICROBIOTA ANALYSIS

PRODUCT EFFICACY & IMPACT STUDIES

- Association with animal performances
- Kinetics
- Insights into mechanisms of action

PROBIOTIC & BIOMARKER DISCOVERY

- 2 probiotic candidates
- 1 biomarker of health

EXPERTISES



Robust methodologies
→ Minimize bias and maximize data reliability



Advanced biostatistical expertise
→ turn data into meaningful insights

TOOLS



Collection kit
at room T°



Tailored bioinformatics pipelines designed around your biological questions

MICIV

MicIV: User-friendly interface for results interpretation

SERVICES

Access to real-world field trials



Metabolomics (Fatty acids…),
Serology, Milk spectra…



Scientific publication support

COMMERCIAL PRODUCTS & PROGRAMS

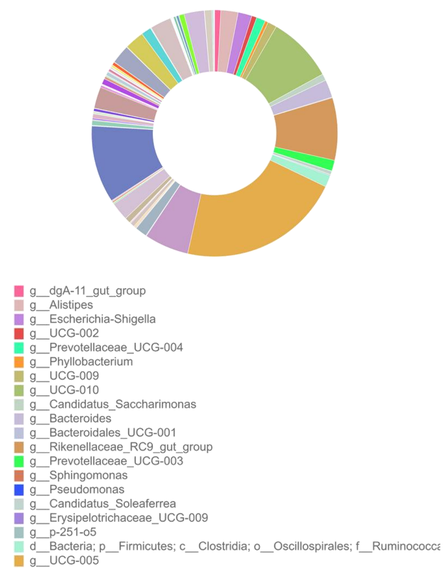
GHP GÉNÉTIQUE HAUTE PERFORMANCE

CowBiot

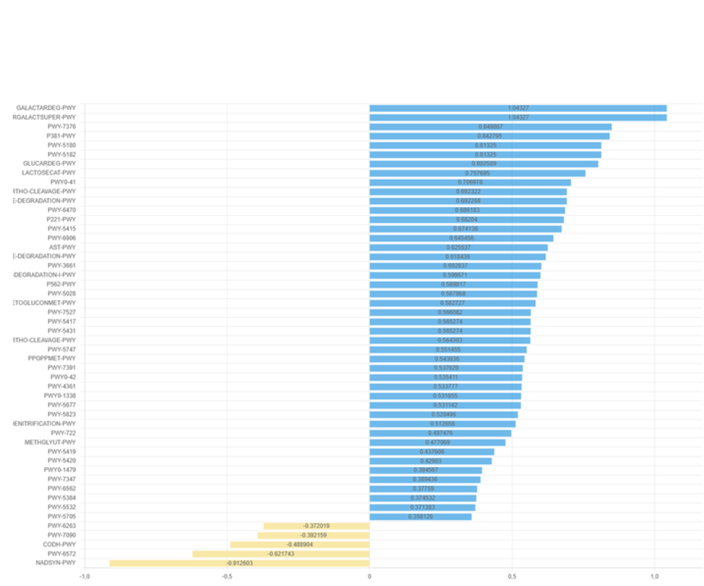
SCORING



COMPOSITION



FUNCTIONAL ANALYSIS



SCIENCE

- First survey on the occurrence, subtype distribution and circulation of the enteric protozoan *Blastocystis* sp. in French broiler chicken farms, *Poultry Science*, 2026
- *Bifidobacterium* abundance in the fecal microbiota is strongly associated with milk traits in dairy cattle, *Animal,* 2024
- The effect of yeast-derived β-glucans in reducing the adverse outcome of *Lawsonia intracellularis* in finishing pigs, *Frontiers in Animal Science*, 2023

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CRÉDIT D'IMPÔT RECHERCHE

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IMMUNITY STUDY

COWBIOT®

" A biomarker of gut health associated with an increased microbiota diversity "

PATENTED

CowBiot

↗ MICROBIOTA DIVERSITY

Immune system training

↗ HEALTH

- ↘ Lameness
- ↘ Mastitis
- ↘ Escherichia-Shigella

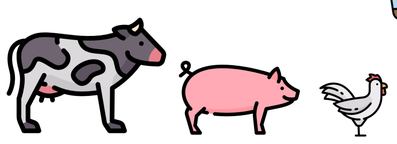
-20 % CULLING

- ↗ Productive longevity (>138 d)
- ↗ Farmer ROI
- ↘ Carbon balance (-18%)

Feces collection and transport at room temperature

PCR

CowBiot



~10 months heifers
~2 months piglets (PigBiot)
~6 weeks poultry (AviBiot)

% HERD/FLOCK PREVALENCE

PRODUCT IMPACT ON PREVALENCE ?

HEALTH POTENTIAL

High

Superior health & immunity

Low

↗ risks of disease and culling

FEED PRODUCT REFERENCE ?

Boost performance

Boost immunity

OUR FARMS IN THE COWBIOT® LONGEVITY PROGRAM

VIRTUOZ

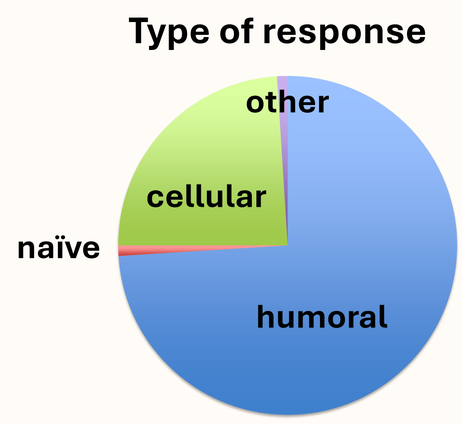
① Herd longevity audit: scoring based on 4 key criteria
② Cowbiot® testing: longevity potential in 10-month-old heifers
③ Personalized action plan: herd management and nutrition

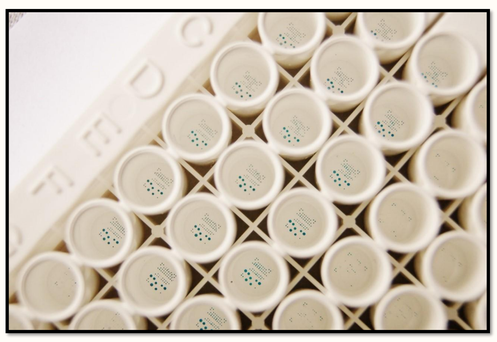
ANTIBODY PROFILE

" A multiplex ELISA technology to decipher the complexity of the immune response "

PRODUCT IMPACT ON TYPE OF IMMUNE RESPONSE

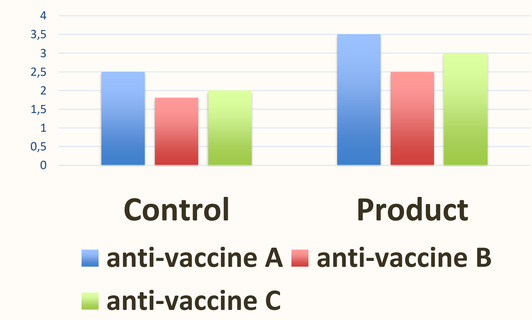
All in one characterization of cellular, humoral and naïve immune responses





PRODUCT IMPACT ON VACCINATION RESPONSE

Diversity, intensity, homogeneity, persistence and transfer of the immune response



SCIENCE

Agrodiag PorCoV: A multiplex immunoassay for the differential diagnosis of porcine enteric coronaviruses, Journal of Immunological Methods, 2020

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CRÉDIT D'IMPÔT CIR RECHERCHE

PIGBIOT

Porcine Precision Nutrition Starts with Precision Identification

In today's competitive porcine market, the challenge is not simply offering premium immune-support feed solutions but identifying the farms that need them most.

PigBiot, the porcine adaptation of CowBiot®, provides feed companies with an objective, science-based tool to pinpoint farms where microbiota and immune-support interventions can deliver the greatest return.

Why PigBiot ?

- ✓ **Target high-value opportunities**

  Identify farms where immune-support nutritional solutions can deliver the greatest benefit.

- ✓ **Differentiate your offering**

  Provide customers with objective, science-based insights instead of generic recommendations.

- ✓ **Drive customer loyalty**

  Create a recurring service that strengthens technical relationships and adds measurable value.

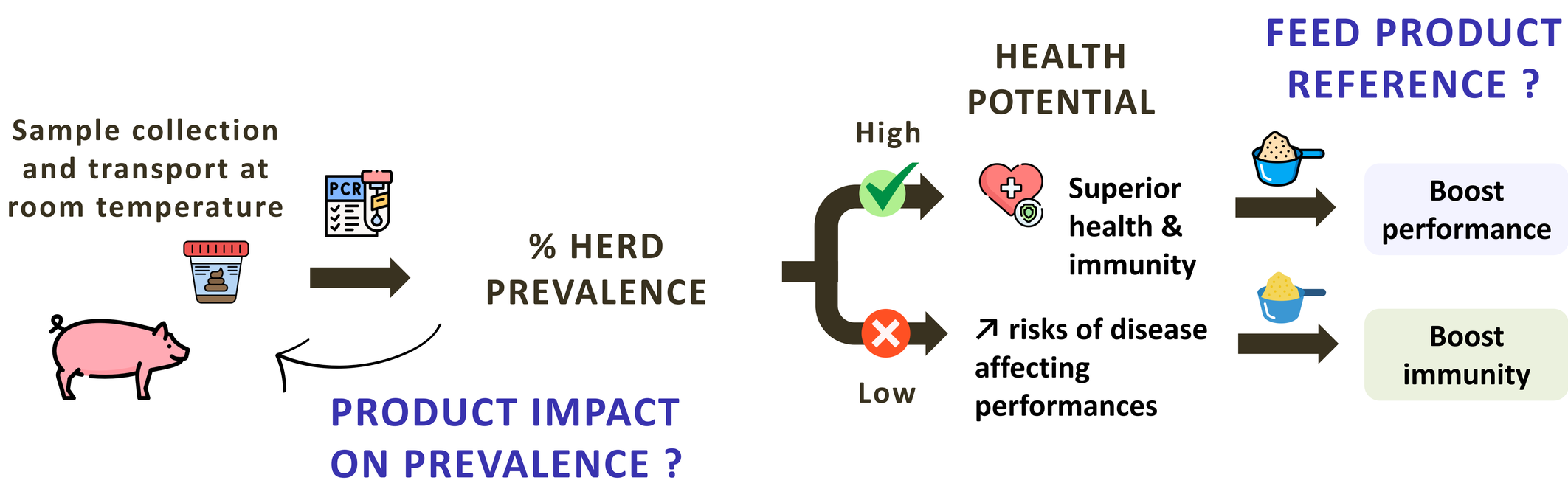
- ✓ **Support premium product adoption**

  Help producers invest in the right solutions, at the right farms, at the right time.

- ✓ **Simple and repeatable**

  Easy sampling, clear reporting, and annual monitoring to track progress over time.

Marker associated with increased α-diversity, immunity, gut homeostasis, metabolic processes, piglet body weight*



- **~25 samples /building**
- **~2 months-old piglets**
- **Fecal swab**

⚠ **Prevalence high and low are set depending on the production system and practices**
→ Over 60% prevalence is generally considered as high

⚠ **Anti-parasitic treatments** (metronidazole, nitazoxanide, TMP-SMX) **might interfere with Pigbiot**

From gut health insights to precision porcine nutrition

*Gut eukaryotic communities in pigs: diversity, composition and host genetics contribution, *Animal Microbiome*, 2020

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AVIBIOT

Poultry Precision Nutrition Starts with Precision Identification

In today's competitive poultry market, the challenge is not simply offering premium immune-support feed solutions but identifying the flocks that need them most.

AviBiot, the poultry adaptation of CowBiot®, provides feed companies with an objective, science-based tool to pinpoint farms where microbiota and immune-support interventions can deliver the greatest return.

Why AviBiot ?

- ✓ **Target high-value opportunities**

  Identify farms where immune-support nutritional solutions can deliver the greatest benefit.

- ✓ **Differentiate your offering**

  Provide customers with objective, science-based insights instead of generic recommendations.

- ✓ **Drive customer loyalty**

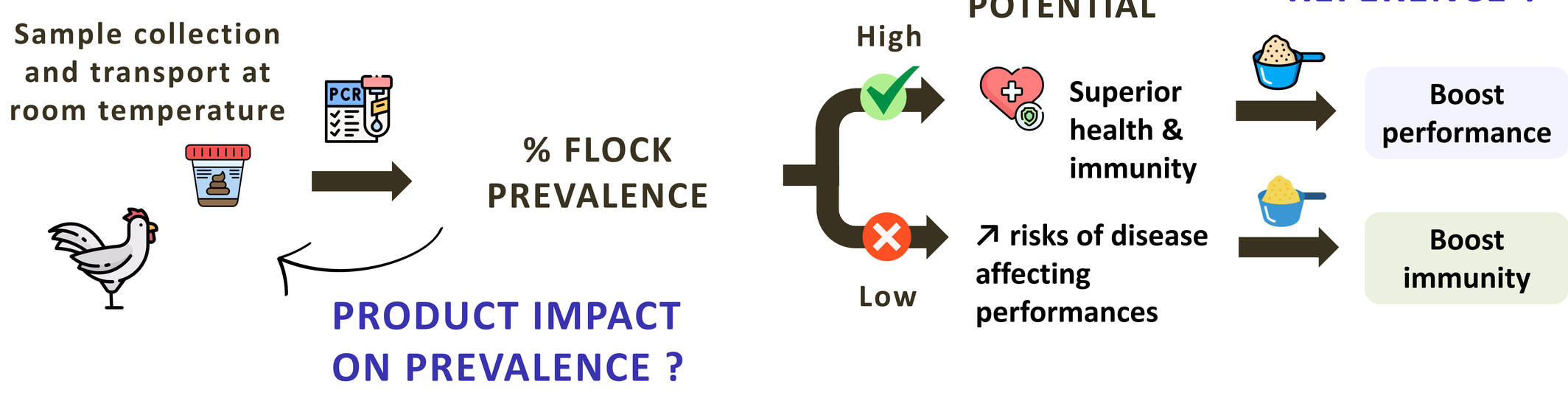
  Create a recurring service that strengthens technical relationships and adds measurable value.

- ✓ **Support premium product adoption**

  Help producers invest in the right solutions, at the right farms, at the right time.

- ✓ **Simple and repeatable**

  Easy sampling, clear reporting, and annual monitoring to track progress over time.



- **~25 samples /building**
- **Collection at ~6 weeks (mature gut health)**
- **Fecal swab or caecum at slaughter**
- **Opportunity potential in laying hen**

⚠ **Prevalence high and low are set depending on the production system, collection age and season**
→ cut-off for French certified 2-months-old- broiler farm, collected during summer season = 60% prevalence*

⚠ **Anti-parasitic treatments** (metronidazole, nitazoxanide, TMP-SMX) **might interfere with Avibiot**

From gut health insights to precision poultry nutrition

*First survey on the occurrence, subtype distribution and circulation of the enteric protozoan *Blastocystis* sp. in French broiler chicken farms, *Poultry Science*, 2026

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