CARE 4BIO

Horizon Europe Brokerage Event
Cluster 6 Calls 2024

Brussels , 26 September 2023

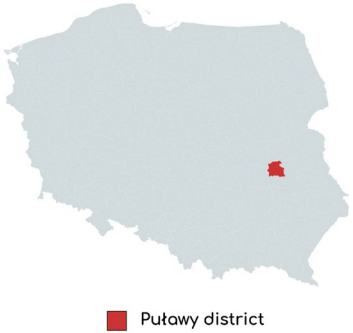
Veterinary Research Contributions to Horizon 2024: Advancing Public Health, Environmental Sustainability, and Food Security

Maciej Kochanowski, DVM, PhD
e-mail: maciej.Kochanowski@piwet.pulawy.pl
Department of Swine Diseases, National Veterinary Research Institute (Poland)

This project has received funding from the European Union's Horizon Europe research and innovation programme, under Grant Agreement No 101059839

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission. Neither the European Union nor the granting authority can be held responsible for them.

National Veterinary Research Institute



Key Facts

- History dates to 1862, established 1945
- Applied veterinary research focus (infectious diseases, food hygiene, veterinary toxicology, and animal feed)
- National epidemiological monitoring
- Expert consultancy services
- Postgraduate education offerings
- National Ref. Lab, 138 directions
- 560 employees as of Dec 2022

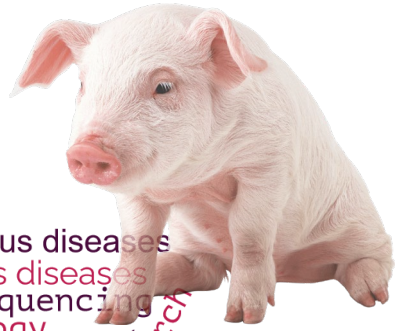
Scientific Departments

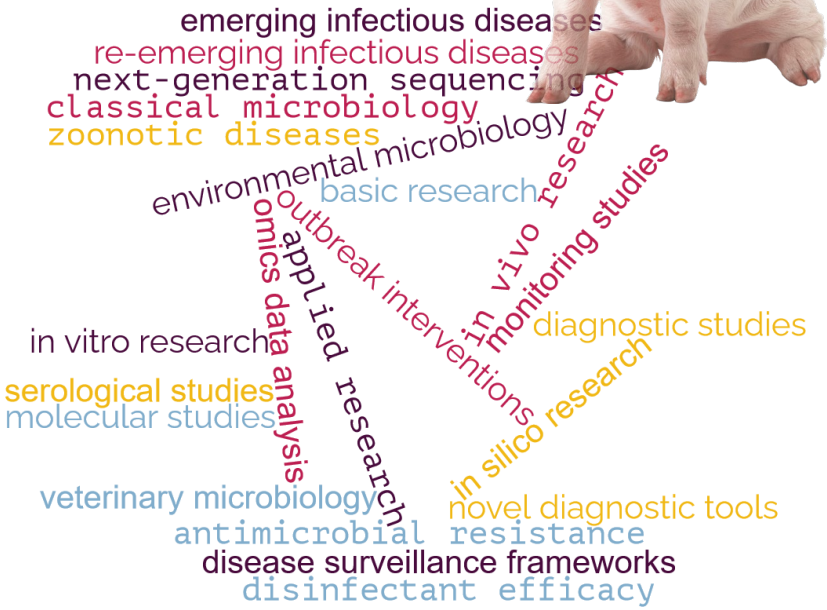
- Department of Biochemistry
- Department of Cattle and Sheep Diseases
- Department of Epidemiology and Risk Assessment
- Department of Fish Diseases
- Department of Food and Environmental Virology
- Department of Foot and Mouth Disease
- Department of Honeybee Diseases
- Department of Hygiene of Animal Feedingstuffs
- Department of Hygiene of Food of Animal Origin
- Department of Microbiology
- Department of Omics Analyses
- Department of Parasitology
- Department of Pathology
- Department of Pharmacology and Toxicology
- Department of Poultry Diseases
- Department of Radiobiology
- **Department of Swine Diseases**
- Department of Veterinary Pharmacy
- Department of Virology

Department of Swine Diseases

Capabilities and Current Activities

- **Multidisciplinary Team of 45:** Expertise in swine diseases, diagnostics, and epidemiology.
- **Advanced Lab Infrastructure:** 18 labs including PCL2, PCL3, and PCL3+.
- **National Reference Labs:** Authoritative in national swine disease research.
- **Global Recognition:** WOAH Lab for Classical Swine Fever & PRRS
- **Broad Research Portfolio:** 21 active projects this year.
- **Service-Oriented Research:** Focus on swine disease diagnostics
- **Collaborative Partnerships:** Ties with veterinary agencies, practitioners, and pig industry.





HORIZON-CL6-2024-FARM2FORK-01-7: Impact of the development of novel foods based on alternative sources of protein

Key Areas of Contribution

I. **Veterinary Health**:
- ✓ Algae & Insect Feeds: Assess livestock well-being.
- ✓ Diagnostics: Use vet-specific tools.

II. **Economic Viability**:
- ✓ Cost-Effectiveness: Vet care impact on costs.
- ✓ Yield: Vet insights into productivity.

III. **Emission Mitigation**:
- ✓ Methane Reduction: Vet-guided strategies.
- ✓ Feed Optimization: Vet data for sustainability.

HORIZON-CL6-2024-FARM2FORK-01-4: Climate change and food safety: effects of climate change on food safety across food systems

Key Areas of Contribution

I. Pathogen Identification:

- ✓ Improve methods for detecting (re)emerging food safety pathogens.
- ✓ Utilize veterinary-specific surveillance techniques for longitudinal monitoring.

II. Climate-Pathogen Dynamics:

- ✓ Examine the impact of climate shifts on pathogen spread.
- ✓ Study correlations between climate and pathogen activity.

III. Emission Mitigation:

- ✓ Create actionable plans for outbreak response.
- ✓ Incorporate veterinary expertise in intervention strategies.

HORIZON-CL6-2024-ZEROPOLLUTION-01-3:
Environmental impacts of food systems

Key Areas of Contribution

I. Environmental Bioload Analysis:

- ✓ Assess bioload from livestock farming and related industries.
- ✓ Utilize veterinary research for environmental scrutiny.

II. Public Health Impact:

- ✓ Examine public health ramifications of livestock-related pollution.
- ✓ Leverage veterinary expertise to assess health risks.

III. Biosecurity Framework:

- ✓ Establish an environmental biosecurity framework.
- ✓ Integrate veterinary knowledge for robust planning.

THANK YOU FOR YOUR ATTENTION