

# SC2 and KET-B Brokerage Event

Food Security | Sustainable Agriculture and Forestry | Marine, Maritime  
and Inland Water Research | Bioeconomy | KET-Biotechnology |

Brussels, 26th June 2018



## Session 1: Sustainable Food Security

# Innovative tools for prevention/eradication of African swine fever virus in pigs and wild boars

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[www.ncp-biohorizon.net](http://www.ncp-biohorizon.net)

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 #BioBrokerage



## IBB PAS is a:

- national institute with over **250 researchers**
- member of **Center for Preclinical and Technological Research**
- recognized as an **EU Center of Excellence** in Molecular Biotechnology
- involved in over **130 national and international projects** (EU projects and COST actions)



EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND



\* Microbial Cell Biology

\* Functional Genomics

\* Protein Modelling & Drug Design

\* Molecular Biotechnology

\* Bio-Med-Vet Technologies

\* Agro-food studies

\* Bioinformatics



**DNA Sequencing and  
Oligonucleotides Synthesis**



**Microarrays Analyses**

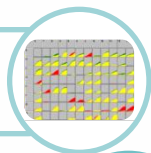


**Mass Spectrometry**

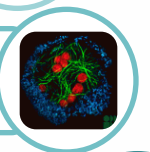


**Biological NMR**

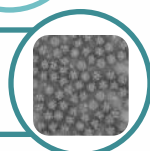
**Phenotype Microarray**



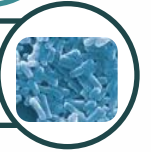
**Confocal & Fluorescence  
Microscopy**



**Baculovirus Service**



**Strain and Plasmid Collection**



# SFS-12-2019: A vaccine against African swine fever

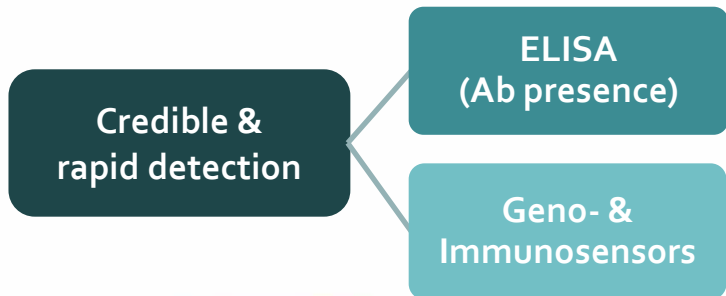


## We offer:

- platform for vaccine development against animal viruses



- detection and diagnostic tools



## We seek partners for technology evaluation and transfer

- agencies in possession of a collection of ASF virus serotypes
- laboratories with P3-4 biosafety levels for prototype testing
- animal farms for TRL5-6

## Previous EU-funded project:



"Centre of medicinal product biotechnology. Package of innovative biopharmaceuticals for human and animal therapy and prophylactics."





## SFS-o8-2018-2019: Improving animal welfare

### **Project idea:**

Optimum lifetime probiotic/synbiotic preparations for feeds to improve gut functionality and host performance

## SFS-11-2018-2019: Anti-microbials and animal production

### **Project idea:**

Lactic acid bacteria feed supplements as a functional feed additive for prevention and eradication of pathogenic infections

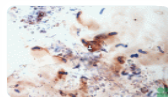
**We offer:** complex screening for identification and rational selection of bacterial strains with **probiotic/competitive antipathogenic properties**



modern '-omics' techniques



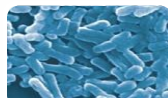
phenotype microarrays  
(BIOLOG, USA)



*in vitro* cell and tissue culturing  
(host-strain interactions)



monitoring of immune responses



collection of bacteria with  
potential probiotic properties

# Cooperation & Contact Details



**We seek** partners from research institutes, veterinarians and the industrial agro-animal branch



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