

THE CONSORTIUM

ACADEMIC PARTNERS



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



Centro de Tecnología Nanofotónica de Valencia



Institute of Food Sciences
National Research Council of Italy



PIWet



AGRICULTURAL
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ÁLLATORVOSTUDOMÁNYI
EGYETEM · BUDAPEST



UNIVERSITÀ
DEGLI STUDI
FIRENZE
DISPAA
DIPARTIMENTO DI SCIENZE DELLE
PRODUZIONE AGRICOLA, ALIMENTARI
E DELL'AMBIENTE

INDUSTRIAL PARTNERS



LUMENSIA
sensors

Coordinator



CyRIC



ISS **BioSense**
Innovation in Optical Biosensors

www.swinostics.eu



SWINOSTICS

SWine diseases field diag**NOSTICS** toolbox



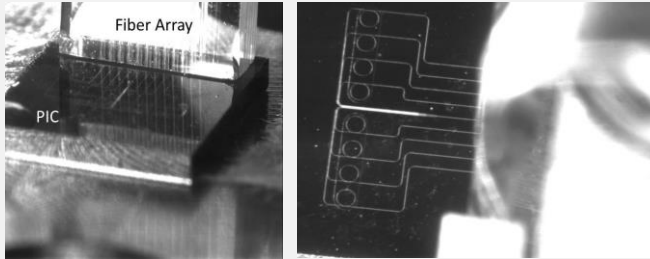
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 771649



info@swinostics.eu

THE SENSOR - TECHNOLOGY

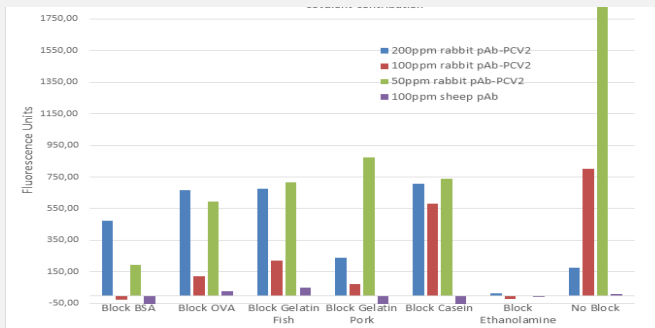
SWINOSTICS sensors have been developed based on bio-photonic sensing technology.



The main sensing chip is attached to the photonic circuit by means of a fiber array, which makes it simple for the use to replace the sensor. The first sensors ready for lab validation have been delivered.

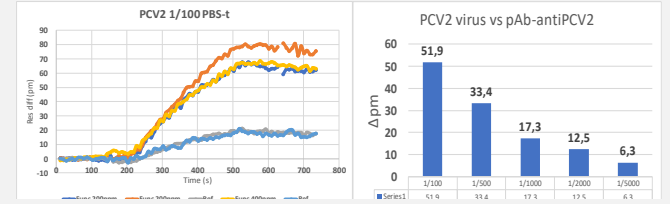
THE SENSOR - BIOLOGY

The SWINOSTICS biosensors exploit antibodies and are able to detect six important viruses for the swine industry (ASFV, PRRSV, SIV, PPV PCV2, CSF).



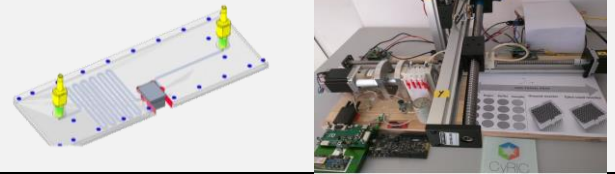
LAB TESTING

First laboratory tests have been performed with good results. Next test for full system validation are expected in early 2020.



DEVICE & FLUIDICS

The sensor microfluidics and overall SWINOSTICS device fluidics allow operating the device in the field/point of care. The first prototype is being validated.



SOFTWARE INTERFACE



The device is controlled through an Android App. A web platform is also available for extended functionalities and further data analysis.

PUBLICATIONS

