

DEFENCE



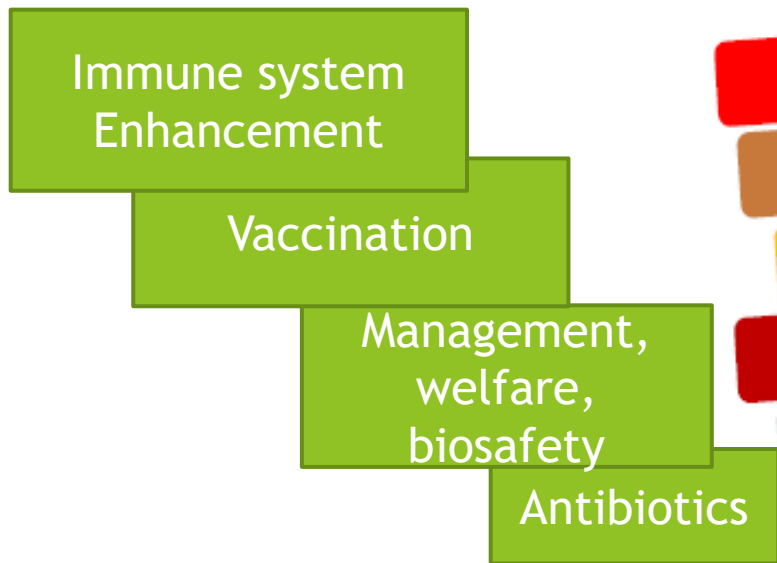
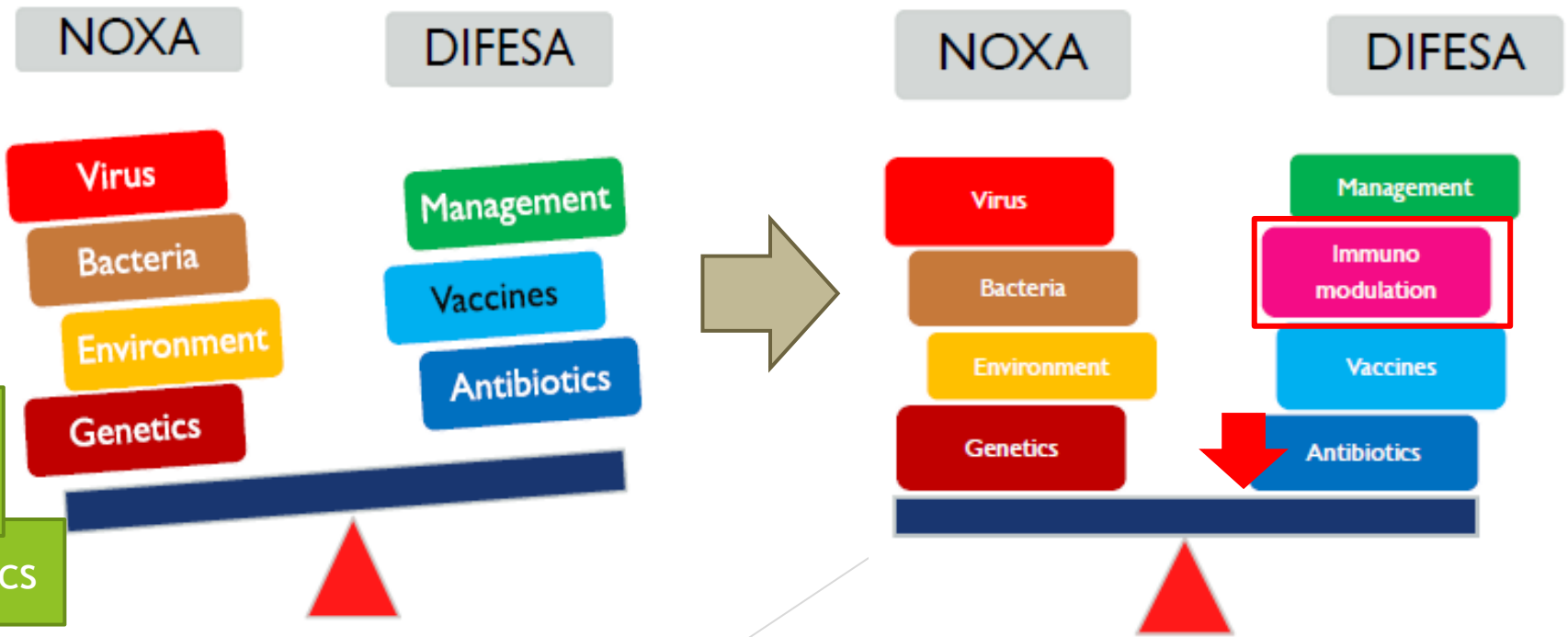
LINEA TUERI
SUINI



- ▶ What is **immunomodulation**?
- ▶ **Immunomodulation** is the existing balance in the dynamics of the immune response that allows the adaptation of the existing processes (chemical and cellular) to optimize the response to the antigen.
- ▶ **Immunomodulators** are **products of the organism, bacteria, drugs or natural substances**, able to **stimulate** the immune responses.

DEFENCE mainly stimulates **cellular immunity** which is a response from the immune system **that does not involve antibodies** but entails: the activation of macrophages, natural killer cells and T lymphocytes, the production of specific cytotoxic antigens and the release of various cytokines

▶ Strategies hindering pathogens' activity:



What is DEFENCE?

Product created to **increase the efficiency of the animals' immune system** in order to prevent and overcome the most critical phases (es PRRSV viraemia) in the best possible way giving the breeder great satisfaction. The main **official plant extracts**, appropriately submitted to **specific technological processes**, used in **DEFENCE** are:



When do you use DEFENCE?

20 DAYS TREATMENT FROM WEANING
(Seroconversion)

20 DAYS TREATMENT IN ALL ANIMALS
(Support immunity)

DURING LACTATION
(Support sow immunity, piglet brood immunity and sow fertility)

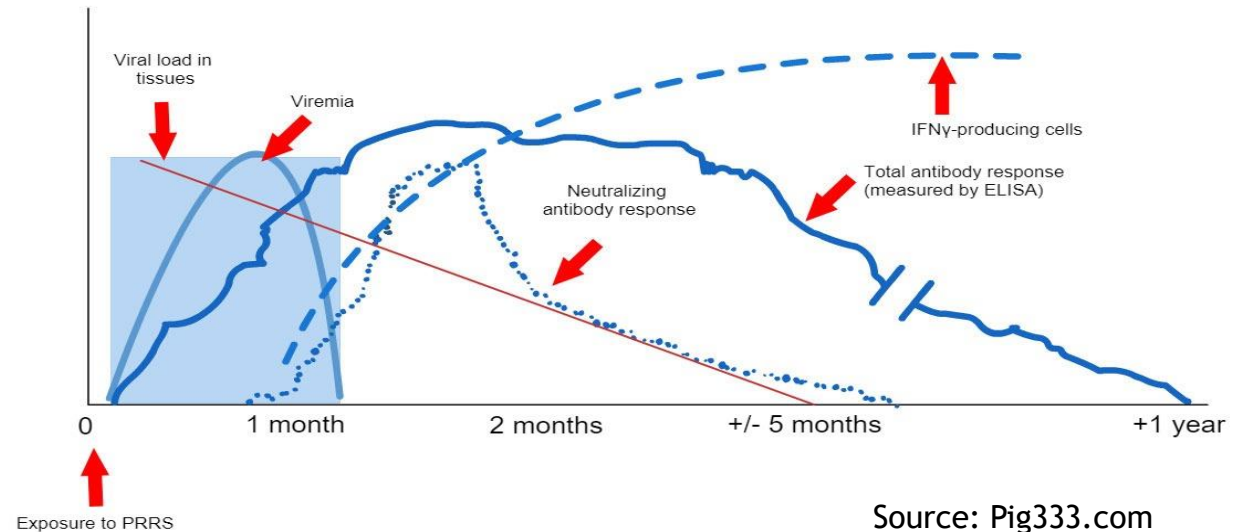
Field Trial

Trial time:

From December 2017 to August 2018. 4700 sows farm. Defence in liquid form. Product administration: 20 days. 2 treatments: the first on May 2018 and successively in August 2018 during the gestation phase. All animals were treated. 2 groups of 6 gestating sows in contiguous boxes weremsampled. Blood sampling on sows at day 0 and day 20 after second administration on sows. Analysis of processing fluids of piglets after castration.

Performed tests:

- PRRSV PCR
- Serum lysozyme
- HC Hemolytic complement
- Serum bactericidal activity (SBA)
- Oxidative stress (ROM)
- OXY –Plasma capability to oppose oxidation



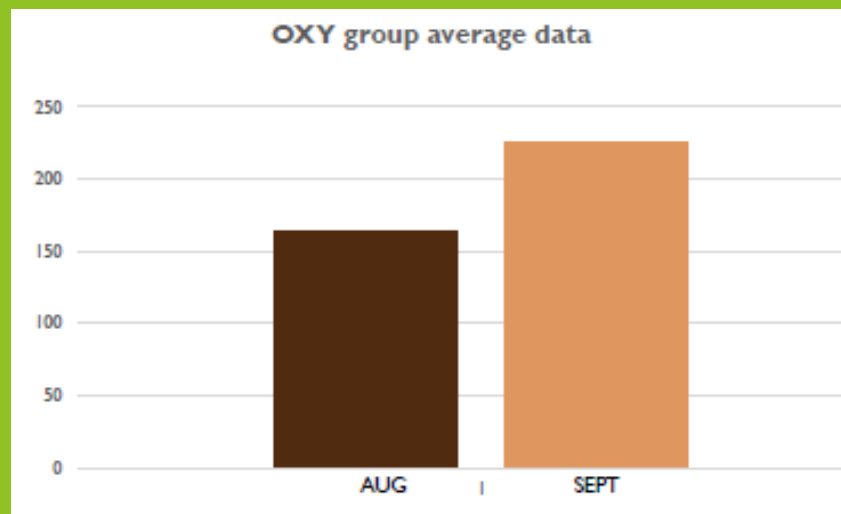
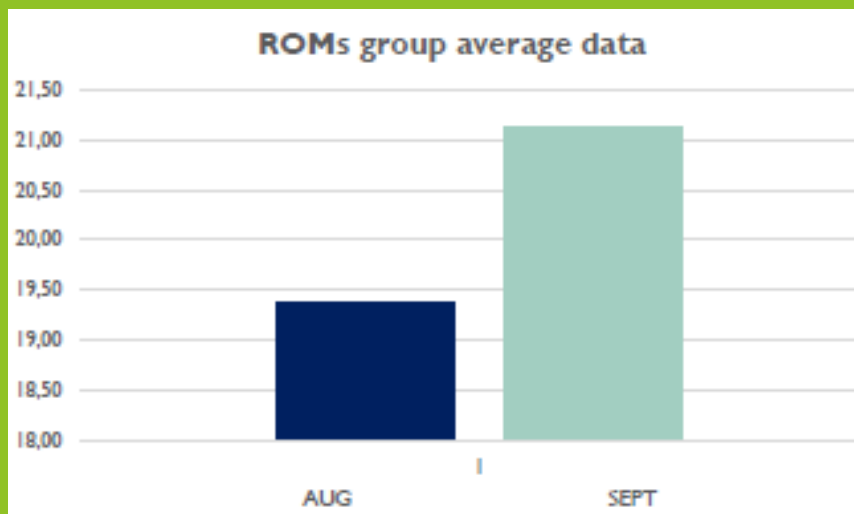
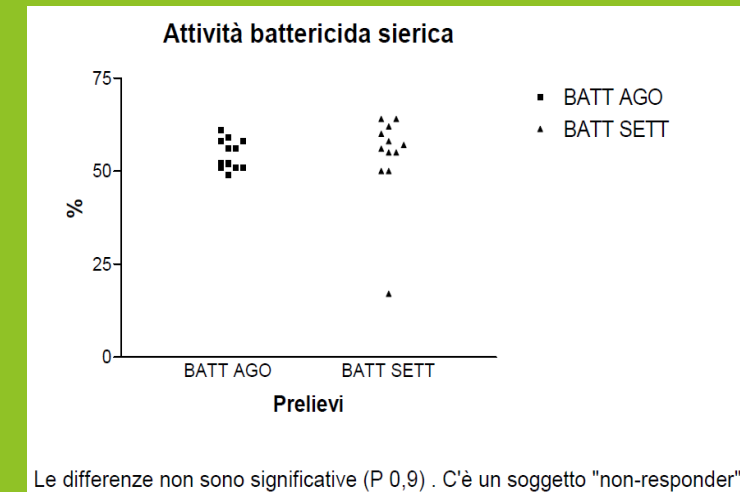
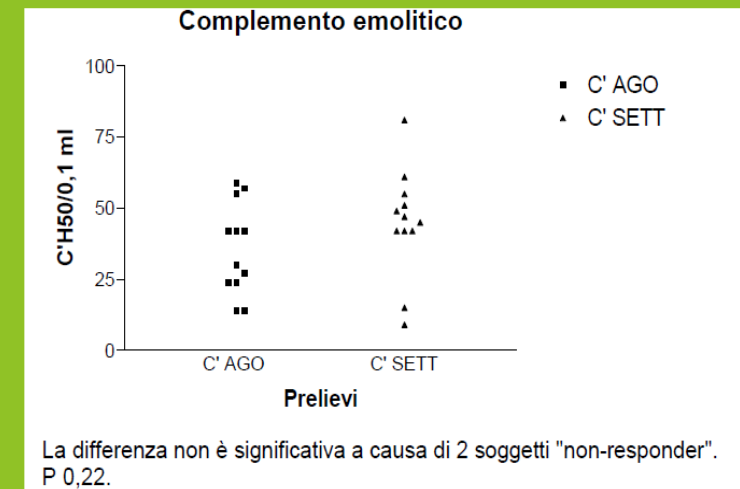
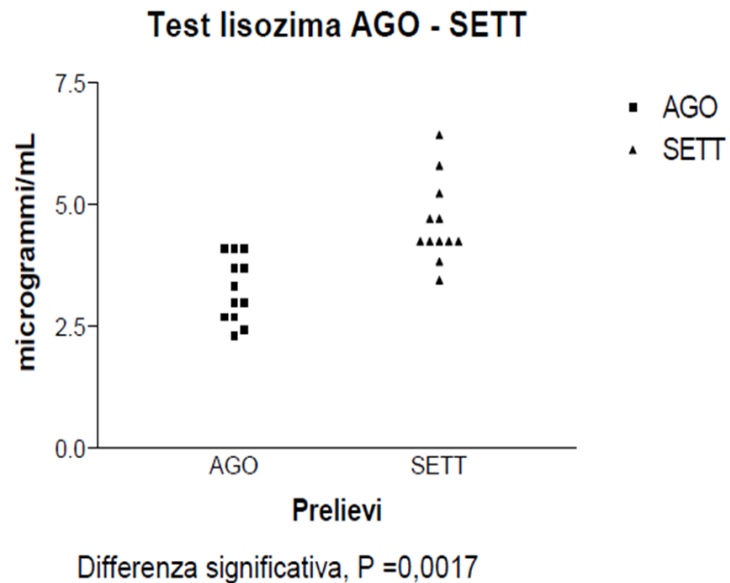
Both the analysis and related statistical processing have been carried out by **IZSLER -Laboratory of Clinical Biochemistry**

Field trial results

PRRS PCR+	
DECEMBER 17	POS
JANUARY 18	POS
FEBRUARY 18	POS
MARCH 18	POS
APRIL 18	POS
MAY 18	Neg
JUNE 18	Neg
JULY 18	Neg
AUGUST 18	POS

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**THANK YOU FOR
YOU ATTENTION!**