



Vaccine efficacy prediction in poultry farming

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What we are looking for

We are looking for a suitable partner to enter into license deal/co-development partnership

What it is needed for?

The method described in this patent can predict the efficacy of vaccines against avian infectious bronchitis virus (IBV), without the use of experimental infections.

Currently, the control of IBV in poultry farming is based on the use of attenuated vaccines. Cross protection is often insufficient and vaccines must be accurately chosen and kept up to date according to the local scenario.

The present invention is based on the development of an algorithms which, starting from the knowledge of a specific trait of the viral genome, allows you to obtain quickly and at low cost the information necessary for choosing the most suitable vaccine strain for the local context.

Advantages

- Reduced costs due to animal morbidity;
- It can be validated for use on human pathogens;
- Allows you to select the most effective vaccine early, reducing economic losses;
- It can also be validated for pathogens of human interest, with significant repercussions also on public health.

Applications

- Poultry farming animal pathogen control;
- May be used by veterinarians, livestock production chains, research institutes and pharmaceutical companies;
- Applicable, with minor modifications, to other animal and human pathogens.

TRL scale

