International Conference on Influence

NA vaccines, also called genetic vaccines, belong to a new generation of vaccines. It is known that DNA injection in the form of a plasmid or in a linear form may lead to induction of an immunological response against antigens coded by the vaccine used. e level of this response, important because of providing protection using the vaccine, depends on many factors. In addition to selection of an adequately strong antigen, ensuring its e cient expression in cells of the immunized body plays a key role. Various strategies are used in order to increase e ciency of DNA vaccines. ey are related to modications of expression cassette, use of various adjuvants, both biological and chemical adjuvants, use of various carriers, various administration routes or immunization in combination with other vaccines. e overview of the approaches used in our laboratory to improve the e cacy of the DNA vaccine against H5N1 virus will be presented. e basal construct used in our work encodes the full length H5 HA, however we have introduced modications inside and outside of the HA coding region. e e cacy of several variants of such DNA vaccine was tested in two model animals, mice and chickens along with several dierent adjuvants. In many cases we have observedenhanced expression of the HA antigen and an improved immunological response to the vaccine.

<b>Biography</b>
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