

## **Technologia *in ovo* – narzędziem w nowoczesnej profilaktyce drobiu**

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### ***In ovo* technology – a tool modern prophylactic in poultry**

#### **Summary**

Bird (chick) embryonic development takes place within the egg – *in ovo*, outside its mother's body, making the embryo readily accessible to intervention, through the window which is cut in the eggshell. This fact was initially used for elaboration of *in ovo* embryo vaccination technology. Advances in animal biotechnology suggest several novel approaches that may be applied to *in ovo* technology, including for example: stimulation of beneficial bacterial profile in the colon of chicken, stimulation of immunological response, stimulation of embryonic development, teratogenic effects testing, selection for sexual phenotype, injection of genetically modified cells, etc. The use of feed additions such as prebiotics and probiotics or their combination - synbiotics influences health and chicken performance. Their administration *in ovo* could have an advantageous impact on an early development of immunological system in broiler chickens. In this overview, the new possibilities for practical use of the above-mentioned additions administrated by *in ovo* technology were presented.

#### **Key words:**

chicken, *in ovo* technology, prebiotic, probiotic, synbiotic, immunological system stimulation

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