



Immunomodulative properties of humic peat preparations

L.M. Stepchenko and N.J. Syedykh

Dnipropetrovsk State Agrarian University, Ukraine, stepchenko@rambler.ru

It is proved, that the humic peat preparations promote the resistance of plants, animals and poultry to the influence of both abiotic and biotic extreme factors of external environment, to action. It was shown by us before, that biologically active compounds from peat promote stability against different diseases of agricultural animals and poultry.

We conducted researches of humic preparations influence (hydrohumate and oxyhumate) on several indexes of immunoreactivity of the organisms of chickens broilers, ostriches, cows and laboratory rats. It is found out, that adding of humic preparations to forage or drinking water results in the normalization of immunity indexes; in particular, leucocytes level, in the increase of the level of some classes of immunoglobulins in blood, of haemoglobin level, T- and B-lymphocytes level, as well as common unspecific resistance – lysozymic, phagocytic and bactericidal activity.

These results allow to suggest that the peat humic preparations show immunomodulative activity, influencing both on humoral and cell immunity links.