

BIOTECHNOLOGY

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BOOK of ABSTRACTS

Effect of “Ecobiofeed+” Biopreparation on Eggplant (*Solanum Melongena L.*)

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The nitrogen nutrition is well known as the basic one, determining the agricultural crop yields. The plants can be supplied with nitrogen via “natural” organic or chemical fertilizers.

However, intensive use of large amounts of chemical fertilizers, especially of ammonium nitrate and other nitrate fertilizers, results in accumulation of these nitrates in plants converted further in nitrites and then in cancerogenic nitrosamines. In this aspect constant introduction of these compounds into the organism results in unfavorable shifts in human health connected with increase of the risk of oncological diseases.

To solve this problem, it is necessary to minimize the use of ecologically irrational and unfavorable chemicals and encourage application of ecologically safe biotechnological methods for soil regeneration and enhancement of its fertility.

To such biotechnological means belongs “Ecobiofeed+” biopreparation that as distinct from chemical fertilizers is useful and what is the most important – safe, and in case of crop yield it increases preservation of the soil structure, its natural microflora and chemical composition.

The aim of the work was to study the effect of “Ecobiofeed+” biopreparation on precocious eggplant (*Solanum melongena L.*).

Testing of “Ecobiofeed+” biopreparation on eggplant was carried out during 2014-2016.

It was shown that early crop of *Solanum melongena L.* was 145.6-210.5 kg / ha, average yield – 610.8-760.4 kg / ha and dry materials were 8.9-9.5%, sugar – 3.3-4.0%, vitamin C – 5.3-6.5 mg% in fruits.

Thus, “Ecobiofeed+” is an effective biological fertilizer.