ASPECTS OF EXTERNAL MORPHOLOGY OF TRIALEURODES VAPORARIORUM ADULT

Pop Oana, G. Cuc, Daniela Pop, I. Oltean, H. Bunescu, Ilonka Bodiş

University of Agricultural Sciences and Veterinary Medicine, Faculty of Agriculture, 3-5 Mănăștur Street, 400372, Cluj-Napoca, Romania, email:oana_mihaela_80@yahoo.com

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SUMMARY

Greenhouse whitefly (Trialeurodes vaporariorum Westw.) belongs to Homoptera, Aleyrodidae, is one of the most important pests from the protected spaces, determining majors damage in the vegetables crops but also in the flower crops, by stinging and sucking the cellular juice from the leaves tissues and young offshoot of several crop plants. Because of this, the present project propose the presentation in detail of several aspects of morphology of the specie mentioned above, aspects noticed at the Center of Electronic Microscopy within Babeş-Bolyai University from Cluj-Napoca.

Material and method. The greenhouse whitefly adults (Trialeurodes vaporariorum Westw.), were collected from USAMV greenhouses from Cluj-Napoca, from the inferior part of the tomatoes leaves and transported in the same day at the Center of Electronic Microscopy at Babeş-Bolyai University in Cluj-Napoca, where the picture were taken. The equipment used: Agar Auto Sputter Coater, optic microscope Olympus BX51 and Stereomicroscope Olympus SZ61.

Results and discussion. The eyes of the whitefly are separated; the superior half presents an omatidae visible bigger than the rest. Also, the superior half of the eye has smaller faces than the inferior half. The shape of the omatidae is relatively hexagonal. The wings of the specie Trialeurodes vaporariorum is on the entire bound ornamentally. With the help of the photos achieved at the optic microscope we could noticed the antenna articles and the feeding apparatus.

Conclusions. The photos analyze achieved at the optic microscope and the electronic one allows to complete the dates already known about the morphology of the specie Trialeurodes vaporariorum Westw. The superior half of the eye presents a bigger omatidae, and its faces are smaller than in the inferior half of the eye. Whitefly presents on the entire wings bound very well reified ornamentations which can be seen in the photos made at the electronic microscope. The photos achieved at the optic microscope allow a general view of the antennae articles and also of the feeding apparatus.

Bibliography