



Plant Protection Society of Serbia (PPSS)
Общество по защите растений Сербии (ОЗРС)



East Palearctic Regional Section (EPRS)
Восточно палеарктическая региональная секция (ВПРС)



West Palearctic Regional Section (WPRS)
Западно палеарктическая региональная секция (ЗПРС)

VII CONGRESS ON PLANT PROTECTION

"Integrated Plant Protection
Knowledge - Based Step Towards Sustainable Agriculture,
Forestry And Landscape Architecture"

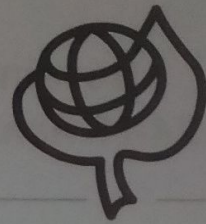
VII КОНГРЕСС ПО ЗАЩИТЕ РАСТЕНИЙ

"Интегрированная защита растений
научно обоснованный шаг к устойчивому развитию сельского хозяйства,
лесоводства и ландшафтной архитектуры"

Book of Abstracts - Сборник резюме



24-28 November 2014, Zlatibor, Serbia
24-28 ноября 2014, Златибор, Сербия



PLANT PROTECTION SOCIETY OF SERBIA (PPSS)

Общество по защите растений Сербии (ОЗРС)

IOBC-EPRS and IOBC-WPRS

МОББ-ВПРС и МОББ-ЗПРС

Supported by / При поддержке

Ministry of Education, Science and Technological Development
of Republic of Serbia

Министерства образования, науки и технологического
развития Республики Сербия

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VII CONGRESS ON PLANT PROTECTION:

**Integrated Plant Protection – a Knowledge-Based Step towards
Sustainable Agriculture, Forestry
and Landscape Architecture**

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к устойчивому развитию сельского хозяйства, лесоводства и
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Publisher:

Plant Protection Society of Serbia
11080 Belgrade, Nemanjina 6; PO Box 123
E-mail: plantprs@eunet.rs
web: www.plantprs.org.rs

Издатель:

Общество по защите растений Сербии
11080 Белград, Неманина 6; п/я 123
Эл. почта: plantprs@eunet.rs
Интернет: www.plantprs.org.rs

For publisher / За издателя

Prof. dr Goran Delibašić, president of the PPSS
Проф. д-р Горан Делибашич, *председатель ОЗРС*

ISBN / МСКН:

978-86-83017-25-6

Printed copies / Тираж:

600

Printed by / Типография:

КАКТУСПРИНТ, Belgrade / КАКТУСПРИНТ, Белград

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ANTAGONISTIC EFFECT OF DIFFERENT *Bacillus subtilis* STRAINS ON *Alternaria solani* ISOLATES *in vitro*

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Early blight, caused by *Alternaria solani* Sorauer (Ellis), is one of the most economically important diseases of potato and tomato in the world. Use of conventional fungicides is unavoidable in controlling the early blight disease, but due to their main downside, fungal resistance, biofungicides are gaining increasing importance in crop production. The goal of this study was to evaluate *in vitro* sensitivity of five *A. solani* isolates originating from Serbia to biofungicides (F-stop and Serenade) containing different *Bacillus subtilis* strains.

A. solani isolates were grown on PDA medium at 20-24°C temperature for a period of two to seven days, and their fragments (5 x 5 mm) were then inserted into a liquid potato dextrose (PD) medium and grown for 48 hours on magnetic stirrer. Suspension of selected isolates mixed with 1.2% PDA medium was homogeneously distributed on hardened PDA medium in Petri dishes (90 mm in diameter). Afterwards, a 10 mm wide hole was made in the central part of the Petri dishes, in which 100 µl of the tested suspension of *B. subtilis* was poured. Suspension of fungicide was used in standard treatment and distilled water in control treatment. Evaluation of antagonistic activity of *B. subtilis* strains was performed 48 hours after incubation at 25°C temperature by measuring the diameter of inhibitory zone (mm).

Bacterial strain ST1/III (F-stop) exhibited the greatest antagonistic effect. It inhibited mycelial growth of the tested isolates from

1.67 (isolate KR) to 17.8% (isolate BC). QST 713 strain of *B. subtilis* (Serenade) managed to inhibit the growth of the isolates from 3.61 (isolate VP) to 10.28% (isolate BC). The greatest percentage of inhibition was achieved with standard fungicide difenoconazole which inhibited mycelial growth from 25.28 (isolate VP) to 88.9% (isolate ML). Compared to standard fungicide all tested bacterial strains exhibited low percentage of inhibition.

MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF Eriophyid MITES ON RUSSIAN OLIVE, *Elaeagnus angustifolia* L.

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Russian olive, *Elaeagnus angustifolia* L (Elaeagnaceae) is native to south-eastern Europe and Asia. This species was intentionally introduced to North America in 19th century as a nectar source for honey bees. But, in the past 50 years this plant has spread from its original planting area. Now it is widely established in North America and declared as noxious in four U.S. states.

Up to now eight eriophyid species associated with Elaeagnaceae, were described. Two of them were described from *E. angustifolia*. *Aceria eleagnicola* was described by Farkas 1963 in Hungary as vagrant on upper surface of leaves. This species was also reported in Iran, Turkey and Serbia.

CIP - Каталогизација у публикацији
Народна библиотека Србије, Београд

632(048)

CONGRESS on Plant Protection (7 ; 2014 ; Златибор)

Integrated Plant Protection - a Knowledge-Based Step towards Sustainable Agriculture, Forestry and Landscape Architecture : book of abstracts / VII Congress on Plant Protection, November 24-28, 2014, Zlatibor, Serbia ; Plant Protection Society of Serbia = Интегрирована заштита растениј - научно обоснованиј шаг к устойчивому развоју селског домаћинства, лесоводства и пејзажног архитектура : сборник тезисов / VII Конгрес по заштите растениј, 24-28 новембра 2014 года, Златибор, Србија ; Общество по заштите растениј Србије. - Belgrade : Plant Protection Society of Serbia =Общество по заштите растениј Србије, 2014 (Belgrade : Kaktusprint). - 371 str. ; 23 cm

Radovi na engl. i rus. jeziku. - Tiraž 600. - Str. 5-6: Preface / Brankica Tanović, Milka Glavendekić, Philippe Nicot = Предисловие / Бранкица Тановић, Милка Главендекић, Philippe Nicot. - Registar.

ISBN 978-86-83017-25-6

1. Друштво за заштиту биља Србије (Београд)

а) Биљке - Заштита - Апстракти

COBISS.SR-ID 211290636