

**P.3.1. TOTAL ASCORBIC ACID CONTENT IN 10
VARIETIES OF POTATO DIFFERENT
RESISTENT TO PVY NECROTIC STRAINS**

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Potato, the third most consumed staple food providing basic nutrition to many people globally. Obtaining good quality for this vegetable imposes the improvement of identification's techniques of pathogen agents, knowing the biochemical composition, especially the components that could affect its health status. The goal of this research was to evaluate the ascorbic acid content of 10 potato samples (varieties with different resistance to potato virus Y) and the behavior of these samples to the PVY necrotic strains. The potato varieties tested were Christian, Roclas, Productiv (roumanian varieties) and Carrera, Red Fantasy, Jelly, Desire, Bellarosa, Red Lady, Hermes (foreign varieties). The ascorbic acid content was analyzed using a spectrophotometric method (L ascorbic acid test kit, Megazyme Ltd., Bray, Ireland), the highest content of vitamin C was founded in tubers from the most sensitive variety Hermes (740mg kg⁻¹ DW) and the lowest values presented the tubers from varieties Christian and Riviera (very resistant to necrotic PVY inoculation). Results showed a significant difference between the total vitamin C content of the tubers from the varieties tested (cultivars with different behaviour to inoculation with necrotic strain of potato virus Y).

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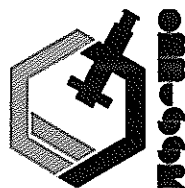
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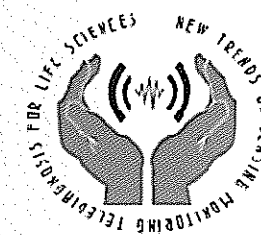
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New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences

NT SMT-LS 2015

Brasov, Romania, Sept. 3-5, 2015

BOOK OF ABSTRACTS



Editors

Mihaela BADEA
Laura FLOROIAN
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