

P.1.14.

**DETERMINATION OF ANTHOCYANIN PIGMENTS
IN POTATO USING SPECIFIC CONTACT SENSORS
AND ANALYTICAL METHODS**

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Currently, there is a remarkable global interest to identify antioxidant compounds from plants. In the last decade research activities have focused on anthocyanin from fruits and potato because it is a water-soluble pigment that can be used as food dye in different products, but also on bioactive properties (with implications for human health).

Selection of potato varieties with high content of anthocyanin is a priority. For selecting varieties it is aimed to identify quick and cheap methods used directly in the field during vegetation and in the laboratory.

This paper presents preliminary results on the determination of anthocyanin in potato leaves (Blue Congo and Albastru-Violet de Gălănești varieties) by two different methods. As controls were used Romanian varieties Christian (red peel / white pulp) and Roclas (white peel and pulp). Anthocyanin content was determined in the field using ACM 200 plus (Anthocyanin Content Meter) and in the laboratory using the soaking in 1% acidified methanol.

ACM 200 plus is a instrument designed for the rapid, non-destructive, determination of anthocyanin content in intact leaf samples. The total anthocyanins content in methanol extracts were determined spectrophotometrically by the pH differential method.

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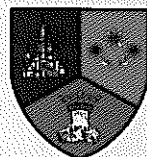


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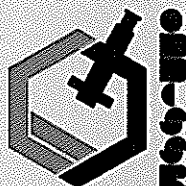
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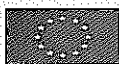
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NT SMT-LS 2014

Brasov, Romania, July 24-26, 2014

BOOK OF ABSTRACTS



Editors

Mihaela BADEA
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