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cies, while polymorphism within species was observed in *V. narbonensis*, *V. sativa* ssp. nigra and *V. grandiflorum*. Our results suggest that tested SSR and ISSR markers can be transferred and employed within *Vicia* genus.

**Keywords:** *Vicia*, SSR, ISSR, transferability

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### **Effect of osmotic stress conditions on *BvSTI*-expressing *Lotus corniculatus***

**PP1-16**

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Plant proteinase inhibitors (PIs) constitute a large and complex widely distributed group of small proteins involved in the regulation of the plant protein turn-over required in multiple physiological processes. Beside the roles regarding development and physiology, PIs are known to act in defense against herbivore insect pests. In recent years, the new intriguing role of plant PIs in abiotic stress tolerance has been implied. Inhibitor of serine type proteinases, *BvSTI* isolated from sugar beet pest resistant genotype was introduced into Bird's foot trefoil (*Lotus corniculatus* L.). To determine the effect of osmotic stress on *BvSTI*-expressing *L. corniculatus*, *in vitro*-grown shoots were exposed to elevated concentration of sucrose (5%, 7% and 9%). After 15 days of treatment, the growth response of sucrose-treated transformed lines 21, 73 and 109, as well as of nontransformed (NTC) line was determined by measuring the fresh weight and the length increment. Also shoots were scored for visible symptoms of osmotic stress-induced injuries by visual inspection. In order to avoid influence of observed phenotypic differences among lines on parameters analyzed under stress conditions, all values were presented relative to the controls (shoots grown under the same conditions on regular 3% sucrose) of each line. Additionally, the activities of antioxidant enzymes peroxidases (POD) and catalases (CAT) were determined spectrophotometrically.

**Keywords:** plant proteinase inhibitor, sugar, *Lotus corniculatus*

This work has been funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia (O173015)

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### **The effect of antibiotics on the shoot regeneration in apple cultivar "Golden Delicious"**

**PP1-17**

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The effect of antibiotics hygromycin, cefotaxime and meropenem on shoot regeneration in apple cultivar "Golden Delicious" was evaluated to optimize the protocol for *Agrobacterium tumefaciens*-mediated ge-

netic transformation. The careful determination of antibiotics concentration is important step to ensure efficient elimination of *Agrobacterium* and appropriate selection process without escapes and detrimental effect on plant regeneration. Healthy and fully expanded young leaves of *in vitro* grown apple shoots were cut transversely into three pieces that were used as explants for shoot regeneration. Regeneration frequency, the mean number of shoots per explant and the index of shoot-forming capacity were calculated after 8 weeks of culturing on Murashige and Skoog medium containing 5 mg L<sup>-1</sup> thidiazuron (TDZ) and 0.3 mg L<sup>-1</sup> indole-3-butryc acid (IBA), supplemented with hygromycin (0, 2, 4, 5, 6, 8 and 10 mg L<sup>-1</sup>), cefotaxime (0, 100, 200, 300, 400, 500 and 600 mg L<sup>-1</sup>) or meropenem (0, 25, 50, 75, 100, 125 and 150 mg L<sup>-1</sup>). Results indicated that the highest index of shoot-forming capacity was obtained at 300 mg L<sup>-1</sup> cefotaxime (3.67) comparing to control (2.93) and other antibiotic treatments. The increase of hygromycin concentration significantly decreased regeneration efficiency, while at concentrations of 5 mg L<sup>-1</sup> and higher it completely inhibited shoot regeneration. Therefore, the present study outlines the use of cefotaxime at 300 mg L<sup>-1</sup> and a stepwise selection procedure with the final hygromycin concentration of 5 mg L<sup>-1</sup> as a suitable system for *A. tumefaciens*-mediated genetic transformation of apple cultivar "Golden Delicious".

**Keywords:** cefotaxime, hygromycin, meropenem, transformation

This research was sponsored by the Ministry of Education, Science and Technological Development of the Republic of Serbia (OI173015).

## Effect of growth regulators concentrations in micropropagation of yarrow

PP1-18

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*Achillea millefolium* is a medicinal, commercially important plant, used in pharmaceutical and cosmetics industry. It is also an ornamental, low-maintenance plant suitable for native gardening. Its propagation using *in vitro* culture enables mass propagation of healthy, pathogen-free plants, during the whole year, and obtained plants contain constant level of secondary metabolites. However, this method still doesn't have significant application in the cultivation of *A. millefolium* for secondary metabolites production. The aim of this study was to establish an efficient micropropagation system of *A. millefolium* native plants. Explants (terminal and basal cuttings) were cultured on MS medium supplemented with 0.5, 1, 2 or 3 mg L<sup>-1</sup> N<sup>b</sup>enzylaminopurine (BAP) and 0.5 or 1 mg L<sup>-1</sup> indole-3-butryc acid (IBA). The best results in multiplication stage were achieved in control, on medium without plant hormones, using terminal cuttings as explants. Regeneration rate was 100%, mean number of axillary buds was 9.3, mean length of leaves was 32 mm. Rooting was successful on hormone-free MS medium (100% for terminal cuttings), with mean number of roots per explant 3.9 and mean length of roots 50.6 mm. All rooted microplants were successfully acclimatized in mixture of sand, peat and vermiculite in a ratio of 1: 1: 1.

**Keywords:** *Achillea millefolium*, BAP, IBA, micropropagation

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