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: *(Thuja occidentalis L. Smagard)*,
(Pícea ábies), *(Pícea pungens)*;
(Berberis thunbergii «Dart's Red Lady»); *(Cotoneaster*
lucidus); *(Crataegus x medi* «Paul's Scarlet»),
(Acer platanoides «Drummondii»);
(Forsythia intermedia «Golden Time»).

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(Picea abies), (Picea pungens);

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(Acer platanoides «Drummondii»); (Forsythia intermedia
«Golden Time»).

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ABSTRACT

Diploma work 54 p. 6 fig. 11 tab., 37 sources.

MICROPROPAGATION, ORNAMENTAL SHRUBS AND TREES, AUXIN, NANOPARTICLES OF ANTIOXIDANTS.

The object of study: *Thuja occidentalis* (*Thuja occidentalis* L. Smagard), Norway spruce (*Picea abies*), Spruce barbed (*Picea pungens*); *Berberis thunbergii* (*Berberis thunbergii* «Dart's Red Lady»); shiny cotoneaster (*Cotoneaster lucidus*); hawthorn (*Crataegus x medi* «Paul's Scarlet»), *Acer platanoides* (*Acer platanoides* «Drummondii»); *Forsythia intermediate* (*Forsythia intermedia* «Golden Time»).

Objective: To review and optimization of protocols for vegetative propagation of ornamental plants, a comparative analysis of the impact of auxin, metal nanoparticles of antioxidants in the process of rooting explants of ornamental trees and shrubs in non-sterile conditions, greening the economy.

Methods: physiological.

In developing the technique of propagation of ornamental species of shrubs and trees found that the optimum conditions for rooting cuttings of these species are greenhouses with systems to maintain high humidity, such as aerosol droplets installation. The findings point to the importance of studying the processing auxin nanoparticles and antioxidants in clonal propagation of ornamental trees and shrubs in non-sterile conditions. Based on these results, it was found that among the tested substances phytohormones IAA (25 mg / L), IBA (25 mg / l), NAA (25 mg / l) had marked rootstimulation activity. Viability planted in soil cuttings ornamental plants at time of 60 or more days, significantly increased by treatment with silver nanoparticles and titanium oxide. Biopesticides Frutin and antioxidants greatly increases the viability of plant trees.

Created vegetative propagation approach for ornamental species of shrubs and trees in non-sterile conditions with the use of chemical stimulants rooting for landscaping nurseries.

