

**Work package 2:** Establishing the influence of various growth regulators, nanofibers from newly synthesized low molecular weight peptidomimetics, as carriers/sources of biologically active agents, in obtaining aseptic cultures and micropropagation of stevia (*Stevia rebaudiana* Bertoni.)

**Start and end of the work package:** Months 4 - 27; Months 31 - 36;

**Work package leader:** Assist. Prof. Maria Petkova

**Participants in the implementation of the work package:**

Assoc. Prof. Maria Geneva

Assist. Prof. Kamelia Miladinova-Georgieva

Trendafil Nedev

**Planned tasks:**

**Task 2.1** Preparation of aseptic start plant material

**Deliverable**

Obtaining prospective clones for *in vitro* propagation

**Task 2.2** Establishing the influence of the amount and type of plant growth regulators and nanofibers from newly synthesized low molecular weight peptidomimetics, as carriers/sources of biologically active agents added to the MS nutrient medium, on the micropropagation, rooting and growth of morphotypes from the studied plant

**Deliverable**

Comparative characteristics of the biometric parameters of the *in vitro* propagated morphotypes and development of a protocol with optimal conditions for *in vitro* propagation of stevia (*Stevia rebaudiana* Bertoni.)

**Task 2.3** Adaptation of *in vitro* propagated morphotypes in phytostat chamber and a greenhouse on different substrates

**Deliverable**

Receiving the number of adapted plants as a percentage of the total number

**Task 2.4** Propagation of the test plant traditionally from seeds.

**Deliverable**

The results obtained from the analyzes of these plants will be used as a basis for comparison with the *in vitro* obtained morphotypes.

**Task 2.5** Preparing the scientific and financial report for the work under the Work Package, processing of the obtained results and designing into materials for participation in Scientific Forums.

**Deliverable**

With the results obtained in this work package, we will take part in a scientific forum and scientific and financial reports will be prepared.