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THE TECHNOLOGY FOR OBTAINING *REUNOUTRIA X BOHEMICA* CALLUS CULTURES

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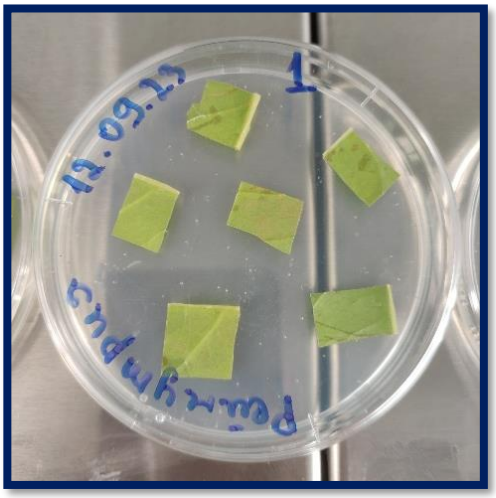
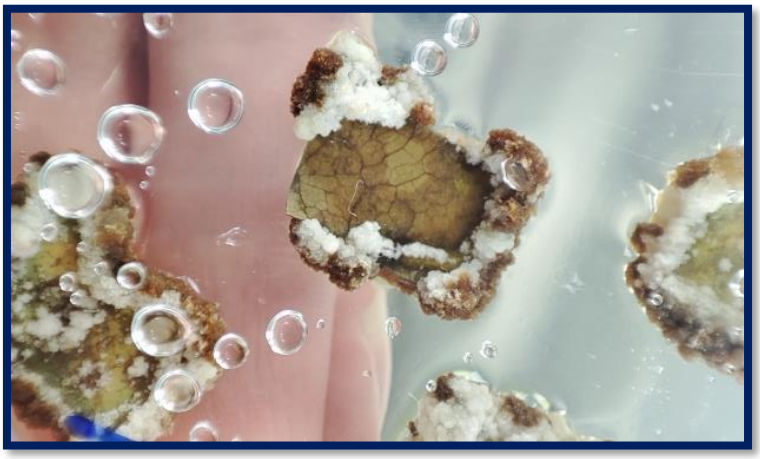
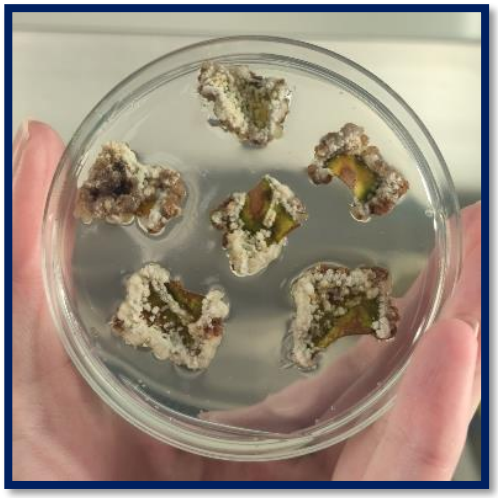
Reynoutria bohemica (*Reynoutria* × *bohemica Chrtek et Chrtková*) is a hybrid of *R. japonica* and *R. sachalinensis*. *Reynoutria* × *bohemica* is considered a promising fodder plant and a raw material for biofuel production. However, it is concerned that uncontrollable plants spreading during cultivation might occur. The high content of flavonoids and vitamin C has been defined in the green parts of *R. bohemica*, which suggests the possible use as a source of biologically active substances. Seed viability is relatively low.

The explants of *Reynoutria* × *bohemica* were obtained from the leaves treated sequentially with soap solution, ethanol and kept for 10 minutes in a sterilizing solution. The fragments adjacent to the main vein were planted Murashige-Skoog agar media and cultivated in the dark at 26 ° C.







Explants of *Reynoutria* × *bohemica* leaves were obtained. By the 2nd week of cultivation, growth of callus tissue was observed at the edges of explants. It is planned to turn the callus culture into a suspension, select optimal concentrations of hormones and nutrients, assess the effect of metal particles on callus growth, to induce somatic embryogenesis *in vitro.*