

## BIOTECHNOLOGY FOR ACCELERATED GROWTH OF NEW VARIETIES OF BREAD WHEAT WITH IMPROVED RESISTANCE TO OPHIOBOLUS ROOT ROT AND WATER DEFICIT

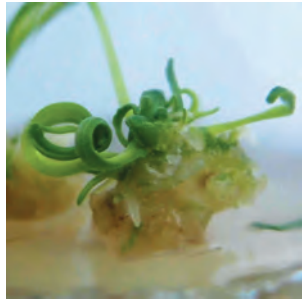
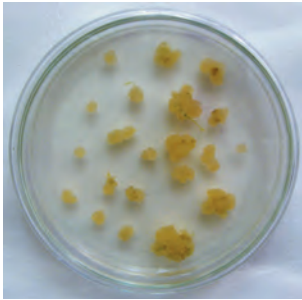
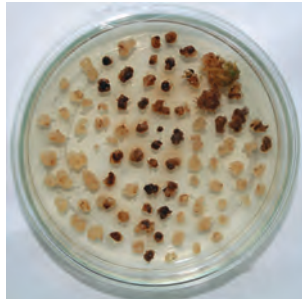
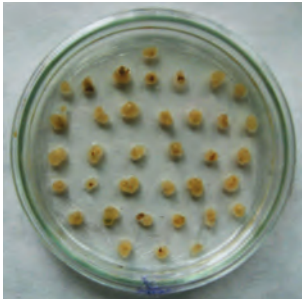


### Areas of Application

This biotechnology can be used to create new and to improve existing varieties of bread wheat

### Specification

The biotechnology includes the following main elements: obtaining of callus cultures from explants shoot apical meristems of seedlings; use of ophiobolus root rot culture filtrate and mannitol as selective factors, use of original culture media for callus induction and regeneration; in vitro selection according to certain schemes; laboratory tests and vegetation conditions for complex resistance to stress factors



### Advantages

The biotechnology increases the breeding ratio and the number of plant-regenerants, reduces time to obtain premium varieties, and facilitates obtaining of initial breeding material of wheat resistant to complex abiotic and biotic stress factors



Obtainment of wheat plants resistant to complex stress factors by cell selection

### Stage of Development. Suggestions for Commercialization

IRL5, TRL5  
Support is available upon request

### IPR Protection

IPR3

### Contact Information

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