

## **SUBCELLULAR LOCALIZATION OF ISOCITRATE LYASE IN MAIZE SCUTELLUM**

*E.V. Maslova, D.N. Fedorin, V.Yu. Bashmakov,  
V.N. Popov, A.T. Epritsev*

The maize scutellum call organelles separation were conducted in sucrose density gradient. Glyoxisomal, mitochondrial and cytosolic fraction were obtained. The crosscontamination was detected using marker enzymes: catalase, succinate dehydrogenase and lactate dehydrogenase. Two isoforms of isocitrate lyase previously separated by ionexchange chromatography on DEAE-cellulose were discovered in glyoxisomal fraction. It is proposed that they provide different functions: one is participating in metabolism of acetyl-CoA, product of fatty acids destruction. Another provides different anaplerotic reactions.