

## **Abstract**

### **Introduction:**

Apoptosis – programmed cell death significantly participates in maintaining of tissue homeostasis. Its alteration is leading to cancer disease.

Inositolhexaphosphate (IP<sub>6</sub>) is naturally occurring substance that is present in most legumes, cereals and seems. IP<sub>6</sub> and its lower phosphorylated forms are also found in most mammalian cells, where they assist in regulatory a variety of important cellular function (including regulation of cell cycle).

### **Methods:**

This work has been engaged in the study of influence IP<sub>6</sub> on apoptosis in cells isolated out of colorectal cancer by *in vitro* quantification enzymatic activity of caspase 3 in cell extract.

### **Results:**

It has proved by the Student's t-test that IP<sub>6</sub> statistically significant influence apoptosis in cells isolated out of colorectal cancer.