

Issledovanie uslovii sokhraneniia glikogena na mazkakh izolirovannykh kletok. II. Tsitofluorimetriceskoe issledovanie vliianiia fiksatsii na sodержanie glikogena v kletkakh. [Conditions for preserving glycogen in smears of isolated cells. II. Cytofluorimetric study of the effect of fixation on the glycogen content of cells].

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Тsitologia

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Аннотация

The influence of fixation on the intensity and specificity of the fluorescence of PAS-reaction (F-PAS) in the rat's liver cells was examined. 14 types of fixatives, routinely used in polysacchride cyto- and histochemistry, were tried: 100% metanol, 100% and 80% ethanol, acetone, 10% neutral formalin, buffered neutral formalin, mixtures of various fluids: ethanol : acetone (1 : 1), ethanol : formalin (9 : 1), ethanol : acetic acid (3 : 1), formaline : ethanol : acetic acid (1.0 : 8.5 : 0.5), fixatives of Carnoy, Bouin, Rossman and Shabadash. The cell fluorescence intensity after F-PAS reaction with Schiff's reagent auramine--SO₂ and the cell autofluorescence were measured cytofluorometrically. It was shown that all the fixatives, besides Bouin's and Shabadash's fluids provide rather good preservation of the cell glycogen. Results obtained from the cytofluorometry of F-PAS reaction, autofluorescence and from the morphological studies of F-Pas stained cells, suggested that the best fixatives were 100% metanol and 100% ethanol.

Категории/классификация

Направления исследования:Microscopy; Gastroenterology & Hepatology; Biochemistry & Molecular Biology (предоставленные Thomson Reuters)

Термины MeSH:

Заголовок	Классификатор
Animals	
*Fixatives	
*Histochemistry	
Liver	*cytology metabolism
Liver Glycogen	*metabolism
*Periodic Acid-Schiff Reaction	
Rats	

Химические:

Реестровый номер **Содержимое**

0 Fixatives

0 Liver Glycogen

Информация о документе

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