



PharmTech

International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.9, No.10, pp 267-275, 2016

Evaluation of Silver-Nucleolar Organizing Region in Trachea-esophageal Region of Chick Embryo (*Gallus domesticus*)

Amel A. Al-tae^{1*}, Hayder J. Mubarek², Ali Sh. Al-Araji¹

¹Dept. of Biology, College of Sciences, Babylon University, Iraq.

²Dept. of Human Anatomy, College of Medicine, Al-Nahrain University, Iraq.

Abstract : The study aimed to evaluate the proliferative activity of the pharyngeal walls by using the silver-staining technique (Ag-MOR). It revealed that the mean of Ag-NORs count was higher in the 3rd day of embryonic development as compared to that of 2nd day of development. The Ag-NORs counts in 2 day embryo ranged between (2.123-2.924 dot/ cell), (2.535-3.369 dot/ cell), (4.5-5.078 dot/ cell) and (2.833-3.585 dot/ cell) in region I, II, III and IV respectively. While the count was ranged between (2.262-2.393 dot/ cell), (2.903-3.546 dot/ cell), (3.867-4.484 dot/ cell) and (4.56-5.108 dot/ cell) in region I, II, III, and IV respectively in 3edday of incubation. The differences in the total Ag-NORs count between two and three day of development was statistically significant at $P \leq 0.05$. The count was higher in pharyngeal epithelial wall of the three day embryos when compared with the two day embryos. Also the statistical analysis show significant differences in means of Ag-NORs counts between the part of pharyngeal wall and regions.

Keywords: Ag-NOR, histology, histochemical study *trachea-esophageal region*, chick embryo, Iraq.

Amel A. Al-tae *et al* /International Journal of PharmTech Research, 2016,9(10): 267-275.
