

小鼠精母细胞联会复合体RNA组分的电镜研究

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摘要 本文运用常规染色和Bernhard染色方法对切片标本中小鼠粗线期精母细胞联会复合体(SC)的超微结构和电镜细胞化学特点进行了研究。经常规染色后,可见SC由侧生组分(LE)、中央组分(CE)和L-C纤维组成;SC宽约210nm,LE宽约60nm,中央间隔区宽约90nm。在Bernhard染色标本中,SC的LE、CE和L-C纤维着色较深,说明其中含有RNA;SC各结构组分的宽度和形态特点与常规染色体标本中的基本一致。本文讨论了SC中存在有RNA等问题。

关键词 [联会复合体,RNA,小鼠](#)

分类号

An Electron Microscopic Study on the RNA Component of Synaptonemal Complexes in Spermatocytes of *Mus musculus*

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Abstract

The ultrastructural and cytochemical features of synaptonemal complexes (SC) in sections of spermatocytes of *Mus musculus* were studied under electron microscope. In specimens stained with uranyl acetate and lead citrate the SC was found consisting of three main elements, the lateral element (LE), the central element (CE) and the transverse filament (L-C filament). When stained with the Bernhard's technique, the SC was recognized as a contrasted, tripartite structure which was usually located in the bleached area occupied by the condensed chromatin and composed of highly electron-dense LEs and medium electron-dense CE and L-C filaments. The SC and the LE, stained either by uranyl acetate-lead citrate or by the Bernhard's technique, always showed diameters of about 210 nm and 60 nm, respectively. The results suggest that RNA may be an important component of the SC.

Key words [Synaptonemal complex](#) [RNA](#) [Mus musculus](#)

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