

中国人精母细胞和卵母细胞联会复合体的电镜观察

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摘要 以微铺展技术结合硝酸银染色, 对中国人精母细胞和流产胎儿卵巢联会复合体的形态和 行为作了电镜观察。列出中国人的SC核型和模式图。根据减数分裂前期XY的复杂形态变化, XY的配对可分为5种类型。对XY短臂之间形成的SC和XY长臂顶端的次级联合以及XY配对的性 质和机理作了描述和讨论。本文还报道了一个罕见的三倍体精母细胞, 对三倍体精母细胞中 SC的配对行为以及和人类染色体疾病病因的可能关系作了分析和讨论。

关键词 [人精母细胞](#), [卵母细胞](#), [联会复合体](#), [三倍体](#)

分类号

Synaptonemal Complexes of Human Spermatorcytes and Foetal Oocytes Observed by Electron Microscopy

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Abstract

Laboratory of Cellular and Molecular evolution, Kunming Institute of Zoology, Academia Sinica, Kunming 650107 The electron microscopical studies on the synaptonemal complexes(SC) of Chinese spermatocytes and foetal oocytes have been made and used to construct SC karyotype with a modified surface microspreading technique. We also confirm the SC formation between the short arms of the X chromosome and Y chromosome as well as secondary association between the distal tips of Xq and Yq at pachyten. Moreover, attentions are paid to the morphology of the XY pairs and five pairing type of XY pairs. In our preparations, a rare triploid spermatocyte was observed and triple pairing was described. Some possible significances of the triple pairing of triploid spermatocyte in relation to the human chromosomal abnormalities have been supposed.

Key words [Human spermatocyte](#) [Human foetal oocyte](#) [Synaptonemal complex](#) [Triploid](#)

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