

<<组织学与胚胎学>>

图书基本信息

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内容概要

OVALLE&NAHIRNEY主编的NETTER'S ESSENTIAL HISTOLOGY和MOORE&PERSAUD主编的THE DEVELOPING HUMAN是人体组织学与人体发育学权威性的、备受我国组织学与胚胎学学者喜爱的教材和参考书。

本教材是由国内15所医学院校的38名组织学与胚胎学专家根据国内本科生教学大纲，对这两本原版教材进行了适当删节和调整，整合成一本为中国医学生和外国留学生使用的组织学与胚胎学双语教材。本教材立足于临床。

理论联系实际，图文并茂，既保留了原版教材的精华、保证了教材的权威性，又最大限度地适应了国内双语教学的要求。

同时，本教材也是中国医学研究生参加组织学与胚胎学考试的重要参考书。

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章节摘录

版权页：插图：The neuromuscular junction has five principal components. First, a Schwann cell process forms a cap above the nerve terminal; here, it does not face the synaptic region. Second, the axon terminal, which is devoid of myelin, contains many clear, rounded synaptic vesicles filled with the neurotransmitter acetylcholine. These membrane bound vesicles are 50-60 nm in diameter and are concentrated near the presynaptic membrane in regions known as active zones. Acetylcholine is stored in the vesicles and released by exocytosis. Recycling of vesicles by endocytosis occurs after neurotransmitter release. Neurofilaments, microtubules, smooth endoplasmic reticulum, lysosomes, scattered glycogen particles, and mitochondria occupy other regions of the axon terminal. The third component is the synaptic cleft, which is a narrow space between nerve terminal and muscle fiber surface, about 70 nm wide. It consists of a primary cleft and several smaller secondary clefts at right angles to it. The synaptic cleft is lined by a basement membrane, which plays a role in development and regeneration of the neuromuscular junction. The fourth component is the postsynaptic membrane of the muscle fiber, which contains in its membrane particles that can be revealed by freeze fracture techniques. These particles contain nicotinic receptors for acetylcholine. The fifth component is the postjunctional sarcoplasm of the muscle fiber, which is critical for structural and metabolic support of the junction.

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编辑推荐

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