

研究業績 英文表記

和文	
表題	異系神経移植による神経再生、特に基底膜の役割に注目して
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英文	
Title	Nerve regeneration through allogeneic nerve grafts, with special reference to the role of the Schwann cell basal lamina.
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Abstract	Studies on nerve allograft have been reviewed according to various attempts that have been made for the purpose of reducing or suppressing the immune reactions to the graft. Despite various pretreatments of the grafts and/or use of immunosuppressive agents, which have been studied for almost a century, no definitely valuable improvement in nerve regeneration has yet been obtained. It was pointed out that detailed histological examinations by electron microscopy are largely neglected in almost all clinically oriented studies on nerve allograft. From our recent electron microscopic studies on auto-, allo- and even heterografts of peripheral nerves which had been treated by predenervation and freezing prior to implantation, the basal laminae of Schwann cells were shown to play important roles in nerve regeneration serving as conduits for growing axons in mouse, rat, rabbit, and monkey. The fact that basal laminae appear to undergo no obvious immune rejections in the allogeneic nerve is an interesting problem to be further studied in the context of nerve allograft.
keyword	Nerve allograft, immune reaction, nerve regeneration, electron microscopy, basal laminae of Schwann cells

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