

研究業績 英文表記

和文	
表題	凍結超薄切片によるミエリン鞘の周期の計測
著者名	大澤得二 ¹ 、石田欣二 ² 、小野寺正雄 ¹ 、Xin-Yan Feng ¹ 、林秀一郎 ² 、野坂洋一郎 ¹
所属	1: 岩手医科大学歯学部口腔解剖学第一講座 2: 岩手医科大学バイオイメージングセンター
英文	
Title	Measurement of the repeat period of myelin sheath using ultrathin frozen sections
Author	Tokuji OSAWA, Kinji ISHIDA, Masao ONODERA, X-Y. FENG, Shuichiro HAYASHI and Y. NOZKA
Affiliation	1: Oral Anatomy 1, Iwate Medical University School of Dentistry 2: The Center for Electron Microscopy and Bio-Imaging Research, Iwate Medical University
Abstract	The myelin sheath of peripheral nerves was observed by transmission electron microscopy (TEM) using plastic-embedded sections and ultrathin frozen sections. Repeat distances of myelin sheaths were measured in high-powered electron micrographs. The ultrathin frozen sections showed a longer repeat distance than the plastic-embedded sections. The ultrathin frozen sections were thought to contain fewer artefacts, as they had not been subject to dehydration and embedding. It is known that broken myelin sheaths are often observed under conventional TEM. It is thought that these procedures cause contraction and partial destruction of the myelin sheath.
keyword	myelin sheath, ultrathin frozen section, repeat period, interperiod line, measurement, dehydration

※本データの英文表記は実際の論文上の表記とは異なります。