

研究業績 英文表記

和文	
表題	マッコウクジラ象牙質の構造
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英文	
Title	The structure of the dentine of sperm whales
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Affiliation	Department of Oral Anatomy, Iwate Medical University School of Dentistry
Abstract	The dentine of sperm whales has been studied using microradiography, light microscopy, scanning electron microscopy and X-ray micro analysis. The incremental lines, Tome granules and the dentinal tubules were clearly observed. The dentinal tubules of sperm whale dentine were narrower than that of humans or other animals. Toms granules were cylindrical rather than global. The peaks of Ca and P determined with an X-ray micro analyzer coincided with the light (radiopaque) parts of the microradiograms. There are two possible reasons for the formation of these incremental lines; one is the effects of nutrition, and the other is the influence of hormones.
keyword	sperm whale, dentine, X-ray micro analysis

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