

## 研究業績 英文表記

和文	
表題	口唇表皮基底膜の微細構造:ジチオトレイトール剥離法と凍結超薄切片法を用いて
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英文	
Title	Fine structure of the epidermal basement membrane of the lip: applications of dithiothreitol separation and ultrathin frozen sectioning.
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Abstract	The fine structure of the epidermal basement membrane at the electron-microscopic level had already been defined. To obtain more detail, two techniques, dithiothreitol separation and ultrathin frozen sectioning, were applied either alone or in combination. Negatively stained ultrathin sections showed a much thicker lamina densa than ordinary plastic-embedded sections. In the lamina lucida, bridging filaments and subbasal dense plates were observed in negative images. After the treatment with dithiothreitol, the lamina densa could be peeled off mechanically from the underlying dermis, and the anchoring fibrils were pulled off the dermis, preserving the connection with the lamina densa. With this specimen, bundles of anchoring fibrils were observed clearly and their lengths could be measured. Negatively stained ultrathin sections of dithiothreitol-separated specimens showed the fine structure of the lamina lucida. Bridging filaments in the lamina lucida were resolved by negative staining.
keyword	basement membrane, dithiothreitol, ultrathin frozen sectioning, negative staining

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