

研究業績 英文表記

和文	
表題	トノサマガエルのレンズ胞の発生
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英文	
Title	Development of the lens capsule in <i>Rana temporaria ornativentris</i>
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Abstract	<p>The lens capsule is thick amorphous basement membrane that lies adjacent to the lens epithelia. Previous studies have examined this structure in mammals and birds. In the present study, the development of the lens capsule in <i>Rana temporaria ornativentris</i> was examined using transmission electron microscopy. In the early stages (St. 22-23) of <i>Rana</i>, the lens capsule was seen as a thin layer associated with a small amount of collagen fibrils. At St. 24-25, partial double layers were observed, which represents the initial stages of multi-layering. At St 26-27, the basement membrane had enlarged to two to three times the thickness observed in the early stages. During the later stages (St. 28-38), the lens capsule rapidly thickened, and multi-layered structure were established. The lamina lucida was clearly observed between the lens epithelia and the innermost lamella of the lens capsule, and the multi-layering, with repetitive lucent and dense layers, was clearer in the inner parts of the lens capsule. In contrast, the peripheral regions of the lens capsule were more compact, and the layering was not as defined. The outermost part of the lens capsule seemed to disperse into the interstitial area. Previous studies suggested an accumulation of new layers at the external surface. However, my observations strongly suggest that the newly formed layers form on the inner surface of the lens capsule.</p>
keyword	basement membrane, transmission electron microscopy, collagen fibrils, lamina densa, lamina lucida

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