

研究業績 英文表記

和文	
表題	アフリカツメガエル(<i>Xenopus laevis</i>) 発生過程における頭部骨格形成 —光学顕微鏡像とX線CT画像を用いて—
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英文	
Title	Study on the formation of cranial skeleton of <i>Xenopus laevis</i> during development using light microscopic and X-ray CT images.
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Abstract	Skeletons in the heads of stages 55, 59, and 65 larvae of <i>Xenopus laevis</i> were examined by light microscopy and X-ray CT imaging. At stage 55, otic capsules of <i>Xenopus</i> larvae were observed as X-ray opaque images by CT imaging. On the other hand, the brain case did not show the apparent X-ray opaque image. Light microscopic images showed the cartilaginous skeleton surrounding inner ears. As the progress of the development, the morphology of the brain case became more obvious in the X-ray CT images, and the distance between otic capsules was reduced depending on the reconstruction of the skull. In the present study, it became clear that the skeletal formation develops initially around the inner ears of the <i>Xenopus</i> larvae, prior to the formation of the other portions including the brain case.
keyword	<i>Xenopus laevis</i> , development, light microscopy, X-ray CT image, cranial skeleton, otic capsule, brain case

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