

D-27 Immunolocalization of retinal-binding protein(RALBP)-like protein on the compound eye and the ocellus of *Drosophila melanogaster*

윤 춘 식*, 정 선 우¹

포항공과대학교 생명과학과, ¹창원대학교 자연과학대학 생물학과

The retinal-binding protein(RALBP)-like protein was found in *Drosophila* visual system by immunoelectron microscopy using anti-squid RALBP antibody. The RALBP-like protein, which has the molecular weight of about 120kDa by immuno-blots, was detected in the central cavity of compound eye ommatidia and in the interphotoreceptor space of an ocellus. The protein was localized to the cytoplasm of photoreceptor cells as well. The molecular size and the distribution of the *Drosophila* RALBP-like protein are similar to those of the vertebrate interphotoreceptor retinoid binding protein(IRBP), suggesting that this protein may function as a *Drosophila* IRBP.

D-28 Local expression of storage protein gene in the ovary of *Hyphantria cunea* Drury

Hyang Mi Cheon*, Myeong Ok Kim¹, and Sook Jae Seo

Department of Biology, College of Natural Sciences, Department of Anatomy, College of Medicine, Gyeongsang National University

Use of SP-1 sequence as hybridization probes in Northern blot experiment revealed that SP-1 transcript was present from the early-7th instar larvae through the pupal stage and accumulated maximally in the end of 7th instar larvae.

We also determined whether the SP-1 gene is locally expressed in the ovary using dot blot hybridization. SP-1 transcript and protein were localized in the nurse cells and follicular epithelial cells of ovary. With the degeneration of nurse cells during the oocyte development, the ovary lose the synthetic site of SP-1 and switch the function to accumulation of SP-1.