

目錄

中文摘要	1
英文摘要	2
1.Introduction	4
2. Materials and Methods	
2.1 Materials	13
2.2 Experimental designs	13
2.3 Histological sectioning and staining	14
2.4 Scanning electron microscopy (SEM)	16
2.5 Preparation of adipose eyelid collagen	17
2.6 Sodium dodecyl sulphate-polyacrylamide gel electrophoresis (SDS-PAGE) ...	18
2.7 Ontogenetic development of the adipose eyelids.....	18
2.8 Analyses of adipose eyelid chamber fluid and plasma.....	19
2.9 Immunostaining for Na^+/K^+ ATPase (NKA) and $\text{Na}^+/\text{K}^+/\text{Cl}^-$ (2) cotransporter (NKCC)	21
2.10 Western blotting for NKA and NKCC	22
2.11 Light transmission measurements of adipose eyelid, cornea, and lens	24
2.12 Photoretinography	25
2.13 Microspectrophotometry (MSP)	26
3. Results	
3.1 Histology and scanning electron microscopy (SEM) of the adipose eyelid	29
3.2 Histochemistry of adipose eyelids	29
3.3 Collagen extraction and peptide mapping	30
3.4 The ontogenetic development of the adipose eyelid	31
3.5 Histology of retina	32
3.6 Plasma and adipose eyelid fluid analyses	33
3.7 Immunostaining and Western blotting	35

3.8 Spectral transmission of adipose eyelid, cornea, and lens	36
3.9 Refractive state of the juvenile milkfish	36
3.10 Visual spectra of the larval and the juvenile milkfish	37
4. Discussion	38
5. References	48
Figures	62

