

ネコザメのリンパ組織

友永 進 (山口大・医短), 栗屋和彦 (山口大・医), 佐々木克明, 瀬崎啓次郎 (江ノ島水族館)

Lymphoid tissues of Japanese bullhead shark, *Heterodontus japonicus*

SUSUMU TOMONAGA, KAZUHIKO AWAYA, KATSUAKI SASAKI, KEIJIRO SEZAKI

Lymphoid tissues of Japanese bullhead shark, *Heterodontus japonicus* (3-3.5kg body weight) were studied histologically. The thymus was atrophic in the adult fish examined. The periarterial lymphoid sheath of the spleen was well developed with numerous mitotic lymphocytes. Rather large number of typical plasma cells were found around the sheathed capillaries of the splenic red pulps, suggesting active antibody-formation in the spleen. Large lymphopoietic foci were consistently observed in the parenchyma of the pancreas. Lymphoid cells were also observed in the interstitial connective tissue spaces of the gonads, though the numbers of cells were limited.

シロザメ胚および成魚のリンパ組織

友永 進 (山口大・医短), 山口和人, 栗屋和彦 (山口大・医)

Lymphoid tissues of Japanese smooth dogfish, *Mustelus griseus*

SUSUMU TOMONAGA, KAZUHIITO YAMAGUCHI, KAZUHIKO AWAYA

Lymphoid tissues of Japanese smooth dogfish, *Mustelus griseus* were studied histologically. Fourteen embryos (33-58g body weight) and six adult fish (2.9-3.4kg body weight) were examined. The thymus was atrophic in the adult, but it was well developed in the embryos examined. The splenic periarterial lymphoid sheath with active lymphopoiesis was observed both in the embryo and the adult fish. The lymphopoietic foci were also found in the pancreas. The most noteworthy finding was that the massive lymphocyte aggregations were found in the intestinal mucosa of the adult animals. Lymphoid tissues were well developed in this species, but only small number of plasma cells were observed therein.

表皮細胞による免疫と HY 抗血清

長井幸史, 前田美鈴 (福井医大・生物)

Production of murine anti H-Y antisera by injection of epidermal cell from tail skin

YUKIFUMI NAGAI, MISUZU MAEDA

HY 抗原に対する抗原に対する抗血清は, B6 マウスの雄の脾臓細胞で雌を免疫する方法で調製するが, 良質の標品が得られる割合は極めて低い。この点を改良する目的で, 抗原の発現量が多いとされる尾の表皮細胞で免疫して調製する方法を検討した。1.5×10⁶ 個の表皮細胞を数回繰返し注射して得た抗血清は, 主要組織適合抗原に対する抗血清が表皮細胞に示すよりも遙かに強い補体依存性傷害作用を示した。また, B6 で調製した抗血清は, B6 の表皮細胞だけではなく, BALB/c やラットの表皮細胞に対しても強い傷害作用を示した。傷害作用は表皮細胞に特異的で, 表皮細胞で吸収すると低下したが, 脳や肝臓の細胞では殆んど吸収されない。得られた抗血清の一標品は, 雌よりも雄の表皮細胞に対してより高い傷害作用を示し, その差に相当する部分の傷害活性は雄の脾臓細胞で吸収された。HY 抗血清が含まれている可能性が大きい。