C111 Ultrastructure of catfish, *Silurus asotus,* spermatozoa (Teleostei, Siluriform, Siluridae)

권애숙[1], 이영환
대구대학교 사범대학 생물교육과, 대구전문대학 식품영양과[1]

The ultrastructure of spermatozoa in *Silurus asotus* was examined under transmission electron microscopy. The spermatozoa have the typical Siluriformes spermatozoan structure. Thus it is a relatively simple cell composed of a head, a midpiece and a tail. The ultrastructure of spermatozoa of *S. asotus* is characterized by the following features; 1) the nucleus is round-shaped and depressed with a deep nuclear fossa, which contains the proximal centriole and the half of the distal centriole; 2) the acrosome is not present; 3) the nine appendages radiate at the outer surface of the centriole; 4)two centrioles form an angle of approximately 140° to each other; 5) mitochondria arranged in two to three layers. One layer of them is located around the posterior region of the nucleus and two layers in middle piece; 6) the axonemal fins are lost.

C112 Lectin binding patterns of mouse knee joint

In-Sick Park* Sang-Hyun Ahn, Jin-Taek Kim, Hai-Poong Lee[1]

Dept. of Anatomy, Oriental Medicine College, Dongguk Univ., Dept. of Applied Biology, College of Life Resource Science, Dongguk Univ.[1]

This study was performed to identify the glycocongugates in murine knee joint. After the knee joints of ICR mice were decalcificated in EDTA solution for 4 weeks and were fixed in 10% neutral buffered formalin, and then these specimens were stained by following ABC method that used biotinylated lectin including Con A, DBA, ECL, GSL-I, GSL-I B4, PHA-L, PNA, PSA, SBA, STL, SWGA, UEA I, and WGA. The results of lectin binding pattern are summarized as follows : 1. The lectins which show strong positive reaction in articular cartilage were PHA-L, STL, PSA, WGA, and Con A. 2. The lectins which show weak positive reaction in articular cartilage were GSL-I, PNA, SBA and SWGA. 3. The lectins which show strong positive reaction in articular capsule were PHA-L, STL, PSA, WGA, Con A, GSL I, PNA and SWGA. 4. GSL I B4 and SBA show weak positive reaction in some synovial cells. 5. ECL, UEA I and DBA show no reaction in knee joint.