

***Helix aspersa* 의 위에서의 cellulase 활성에 대한
조직화학적 및 면역조직화학적 연구**

**Histochemical and Immunohistochemical Study on the Stomach
of a Land Snail, *Helix aspersa*.**

Yong Seok, Lee and Kye Heon, Jeong

Department of Biology, College of Natural Sciences, Soonchunhyang University

ABSTRACT

The histochemical and immunohistological study on the stomach tissue of the land snail, *Helix aspersa* was carried out.

The epithelium of the stomach consisted of three types of columnar cells. Type 1 cells which is majority in number has a brush border with microvilli on the free surface of the cells and contained acidic mucopolysaccharide. Type 2 cells which is typical goblet cell was tended to crowd to one side. It contained neutral and acidic mucopolysaccharide.

Oval shaped type 3 cells slanted to the basal membrane and was rarely found in the epithelium. It contained neutral and acidic mucopolysaccharide.

In the immunohistological study, cellulase activity was confirmed by LSAB kit. It was shown on the apical cytoplasm of the stomach epithelium labelled with the streptavidin particles under the LM.

Key words : Snail, Stomach, Epithelium, Cellulase, streptoavidine particle, *Helix aspersa*

한국패류학회

본 부 : 인하대학교 의과대학 기생충학교실/인천광역시 중구 신흥동3가 정석빌딩
B동 5층 TEL: 032-890-9802 FAX: 032-884-2104
총무국 : 군산대학교 해양과학대학 해양생명양식학과/전북 군산시 소룡동 1044-2 번지
TEL: 063-469-1837, FAX: 063-469-1937, dongki@kunsan.ac.kr
편집국 : 배재대학교 자연과학대학 생물약학과 / 대전광역시 서구 도마2동 439-6
TEL: 043-520-5467, jaejkim@mail.paichai.ac.kr