

**C113**            **The Mitigative Effect of *Yunkyopaedocksan-gami* on Allergic Contact Dermatitis in Mouse Skin by Dinitrochlorobenzene**

Jin-Teak Kim\*, Sang-Hyun Ahn, In-Sick Park, Oh-Sung Kwon<sup>1</sup>,  
Yoon-Ho Kang<sup>1</sup>, Hai Poong Lee<sup>2</sup>

Dept. of Anatomy, Dept. of Internal Medicine<sup>1</sup>, Oriental Medicine College, Dept. of Applied Biology, College of Life Resource Science<sup>2</sup>, Dongguk Univ.

This study was observed to investigate the mitigative effect of YPGM on allergic contact dermatitis. ICR mice were sensitized by one application of 25 $\mu$ l of 5% 2,4-dinitrochlorobenzene(DNCB) onto an abdominal skin. Seven days later, the mice were challenged with 4 $\mu$ l of 2.5% DNCB, and then were administered with *Yunkyopaedocksan-gami*(YPGM) extract, a dose of 0.51g/kg/day, for 48 hours. At observation of abdominal skin morphologic changes, the infiltration of lymphocytes to epithelium, enlarged capillaries, and the damage of epithelium as cytoplasmic vacuolation and enlarge of intercellular space in mice administered with YPGM were diminished than mice only treated DNCB. The mast cell of degranulate type in YPGM group were less than DNCB group. The number of IL-2 receptor positive cell in YPGM group were decreased than DNCB group. As results indicated that the YPGM extract mitigated the allergic contact dermatitis.

**C114**            **Phagocytosis of Reticular Cells of Hemopoietic Organ in Grasshopper, *Euprepocnemis shirakii*, Following Injection of Gold Particles**

Byung Soo Chang  
Department of Clinical Pathology, DongNam Health College

Phagocytosis of the reticular cells to the injection of colloidal gold particles with average diameter 10nm into the hemocoel of grasshopper, *Euprepocnemis shirakii* Bolivar, were examined using electron microscope. Injected gold particles are rapidly taken up by reticular cells of the hemopoietic organ. During the initial process of phagocytic cells, these cytoplasm have formed numerous phagocytic vesicles by the surface reaction of cytoplasmic processes. The shape of vesicles are irregular or sinusoid form and the sizes are 0.5-2 $\mu$ m in diameter. As their vesicles fuse each other to concentration then interact with primary lysosome. The secondary lysosomes contain electron dense materials and appear a concentric lamellar structure at high resolution. Twenty-four hours after the injection of a colloidal solution, these cells are not necrosis and continue phagocytic reaction. As a result, the reticular cells have considerable phagocytic capacities.