

**[P-14]****IMMUNOSTIMULATION BY THE EXTRACTS OF  
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In the present study, the potent lipopolysaccharide (LPS)-mimetic stimulation of B cells and macrophages by hot water extract from *Salicornia herbacea* (*S. europaea* L.) is described. The extract activated spleen cells to proliferate in a dose-related manner as measured by [<sup>3</sup>H]-thymidine incorporation response. The extract selectively induced lymphocyte proliferation in B cell-enriched spleen cells but not in T cell-enriched one. The extract also stimulated macrophages to produce nitric oxide. Analysis of cytokine gene expression study using RT-PCR showed that the extract induced macrophage related cytokine including iNOS and IL-1 $\beta$  but not IL-2, an important cytokine produced by T cells. Blocking experiment with polymyxin B, a selective inhibitor of LPS, showed that the LPS-mimetic immune stimulation by the extract is not due to the contamination by LPS.

keyword : Immunostimulation, Lipopolysaccharide, B cells, Macrophage