

**Studies on biologically active peptide derived from
fish and shellfish-V, Antioxidant activities of Undaria
pinnatifida dipeptide derivatives.**

陳俊榮

Suetsuna;K. and Chen;J. R.

Abstract

The antioxidant activity of *Undaria pinnatifida* dipeptides was firstly evaluated by the ferric thiocyanate method. Among the synthetic dipeptides containing Lys, three dipeptides had strong activity and their antioxidant activity evaluated by the induction period was 32.1 days for Lys-His, 26.1 days for Lys-Met and 25.0 days for Met-Lys. Furthermore, the IC₅₀ value for superoxide anion-scavenging activity by XOD-XTT method was 2.52 mM for Lys-His, 10.5 mM for Lys-Met and 11.9 mM for Met-Lys. The IC₅₀ value for hydroxyl radical-scavenging activity by the ESR method was 1.02 mM for Lys-His, 2.66 mM for Lys-Met and 2.86 mM for Met-Lys. (author abst.)