

- E325** A Epidemiological Study of Virulence Factors Produced by *S.aureus* Strains Isolated from Foodstuffs Specimen in Korea. -On the Coagulase of the Isolates-

Choi Young Sil \* · Lee Chong Sam  
Dept. of Biology, College of Natural Sciences, Sungshin Women's Univ.

142 *Staphylococcus aureus* were isolated from 760 foodstuffs current in the period 1997-1998, were achieved for their epidemiological study. 6 coagulase types were identified by coagulase confirmative test against 48 *S.aureus* isolated from the various foodstuffs. The remaining 94 strains were not confirmed into the 8 known types of coagulases. As showed the result, it was found that all the isolates could be classified into the coagulase types II, III, V, VI, VII and VIII. Namely, 48 strains (33.8%) out of 142 isolates were classified into 7 strains (15%) as type II, 2 strains (4%) as type III, 3 strains (6%) as type VI, 3 strains (6%) as type VIII, 25 strains (52%) as type VII, respectively. Therefore, it was found that type VII among the coagulase types of the *S.aureus* isolated from foodstuffs in Korea were occupied a good many.

- E326** Detection of Enterotoxin Production by *Staphylococci* Isolated from Foodstuffs and Clinical Specimen in Korea.

Choi Young Sil \* · Lee Chong Sam  
Dept. of Biology, College of Natural Sciences, Sungshin Women's Univ.

187 *Staphylococcus aureus* and other Staphylococcal strains were isolated from 760 foodstuffs current in Korea and from 45 clinical specimen. The ability to produce Staphylococcal enterotoxin and the biotype of the isolates were analyzed. *S.aureus* (38.0%) among these isolates produced at least one of the five known Staphylococcal enterotoxins whereas coagulase negative Staphylococci did not produce any of them. 75.5% of the *S.aureus* isolated from these clinical specimen produced enterotoxins whereas 28.8% among the *S.aureus* isolated from foodstuffs were found to produce enterotoxins. *S.aureus* founded in the disease of the human had been mostly enterotoxin gene, and enterotoxin A and C were the predominant type. These types were confirmed 33.3% and 53.5% out of the enterotoxigenic strains and were existed singly or in combination with other enterotoxins. The predominant types of *S.aureus* isolated from foodstuffs were enterotoxin A and B, and these enterotoxins were ascertained in 37.5% and 43.8%.