Comparison of Culture-Dependent Method with DGGE Method for the Analysis of Marine Bacterial Community

<u>Hyo Joo Bang¹</u>, Sang Tae Park¹, Jong Man Kim², and Mal Nam Kim¹ Department of Biology, Sangmyung University, 110-743 Seoul, Korea¹ Korea Ocean Research and Development Institute, Ansan 425-170, Korea²

Species composition of the marine bacterial community in the surface sea water harvested in May, 2005 from one of the stations of Korea Tongyeong coastal area was analyzed. Pure culture in a selective medium and identification by the VITEK Microbe ID system detected 6 marine bacterial strains, while 10 bands were traced by the DGGE-based 16S rDNA PCR method.

These results indicate that the DGGE method was more efficient for the detection of the species composition from the marine bacterial community than the culture-dependent method.