

B205 Distribution and Utility in the Genus *Liriope* and *Ophiopogon*
(Liliaceae) on Oriental Medicine Resources

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Distribution and utility in two *Liriope* and three *Ophiopogon* species, *L. spicata*, *L. platyphylla* and *O. jaburan*, *O. japonicus*, *O. japonicus* var. *mbrosus* were examined. Plants were collected from May 1998 to September 1998 in 5 province, Kyungpook, Chonnam, Jeju, Chungpook, Chungnam. Utility in two *Liriope* and three *Ophiopogon* species were investigated on Oriental Medicine Resources. On the other hand In morphology, Flower color, position of ovary, peduncle shape, leaf width, leaf number and stolon were examined. In specialty *L. platyphylla* with white flower was collected in Mt. Jogye of Chonnam province.

B206 Growth Change of *Scenedesmus obliquus* (Chlorophyceae) with
Phosphorus and Methylglyoxal

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The algal cell number from the medium treated with 0.5 - 1.0 mM of MG at 1/2 P or 1/4 P concentration was significantly lower than those of algae treated with full strength of phosphorous in medium. The inhibitory effect of MG on algal cell division was enhanced at low concentration of phosphorous in medium. At the beginning of logarithmic phase of algal growth, the mean dry weight of algae from the medium without MG-treatment in 1/2 P media was significantly higher than that of algae treated with MG. After logarithmic phase of growth cycle, the mean dry weight of algae from the medium with 1.0 mM of MG-treatment in 1/4 P media was significantly lower than that of algae treated with or without MG. At logarithmic phase of algal growth. At 15 days after inoculation, the mean chlorophyll content per algal cell from the media without MG-treatment in 1/2P was significantly higher than that of other cells from MG-treated media. The mean photosynthetic rate of algal cell without P and MG treatment at 15 days after inoculation was significantly higher than that of MG-treated algae. There were significant differences in mean phosphate uptake rate among all groups of *S. obliquus* at logarithmic phase. Phosphate uptake rate per each algal cell from the basic media without MG and P treatment was rapidly reduced which shows early introduction to stationary phase.