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총 회(오전 11시)

개회사
국민의례
회장인사
축사
경과보고
트의사항
귀국보고
광고
폐회

특 별 강 연

“Antibiotics and Fermentation Technology”

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There are about 60 or more antibiotics that have been widely used for human medicine and veterinary application, and its importance to the health-care and well-being of people need not be re-emphasized any more.

Almost all of these antibiotics have been and, in the foreseeable future, will be produced by fermentation process by economic necessity. Although the history of antibiotics is very short, the development and advancement of fermentation

technology is remarkable. Our evidence is that the price of penicillin-G dropped to 1/100 over the period of past 25 years despite the inflation. There lies the importance of advancement of fermentation technology, and in this we, the microbiologists and bioengineers alike, can take a strong pride as significant contributors to our society and world community.

On a world-wide basis, survey of fermentation industries that are devoted to production of antibiotics will be presented. Fermentation technology of a few selected antibiotics processes will be discussed as examples. The advances, trends, and problem areas of antibiotics fermentation will be presented. The impact of advancement of fermentation technology on the economic and business aspect of pharmaceutical industries will also be considered.

일 반 강 연 회

1. *Penicillium chrysogenum* 균주의 페니실린 생산을 증가를 위한 mutation 방법

현형환 · 유두영

한국과학원

자외선, methyl-bis(β -chloroethyl) amine 등과 같은 물리적 및 화학적인 mutagenic agents를 처리함으로써 페니실린을 생산하는 많은 mutants를