stereochemistry of C3' position, starting from chiral amino acid, (-)-L-serine methyl ester. In this meeting, the asymmetric synthesis of one of the enantiomers, (2S,4R)-LJ-45 and its anti-HBV activity will be discussed in detail.

[PD1-40] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

Construction of Indole Library for Serotonin Related Drugs

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There is an ample hope for the success of hetero cyclic compounds, known to have pharmacological activity and comparatively low chiral carbon, passed great candidate of drug. Indole compounds known as serotonin related drugs have infinite adaptation of different physiological activity.
The study developed linker that gives variety to hetero cycles and comes with swelling as choosing method to use traceless linker. Construction of whole library synthesized compounds designed linker and benzene ring are linked by combination with silicone and made maker it into hydrazine gave variety of ketone compounds. The problem of swelling was eliminated by inducing silicon with the lithiation of bromoaniline and oxygen in the middle of the linker.

[PD1-41] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

CoMFA Analysis of 2-Alkylureido-1-phenyl propanols for Cytotoxicity

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The structure of 2-alkylureido-1-phenyl propanol derivatives have been studied and optimized for their cytotoxic activity. The three dimensional quantitative structure activity relationship (3D-QSAR) was investigated using comparative molecular field analysis (CoMFA). The result suggested that electrostatic and steric factors of 2-alkylureido-1-phenyl propanol derivatives were correlated well with cytotoxic activity.

[PD1-42] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

Novel Platinum(IV) compound, K101, having octahedral structure as Anticancer agent II-Cell signaling mechanism of Apoptosis in Human colon cancer cell line

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Chemotherapeutic drugs comprising cisplatin cause DNA damage and kill cancer cells mainly by apoptosis. In particular, the study of apoptosis induced by cisplatin became active research area to understand the molecular basis of CDDP-mediated apoptosis and to improve therapeutic benefits. Recently, novel Pt(IV) compound, trans,cis-[Pt(acetato)2Cl2(1,4-butanediamine)] (K101) was synthesized and characterized its octahedral structure. Anticancer activity of K101 was screened in vitro and in vivo, already. In this study, we sought to investigate the signalling mechanism of novel Pt(IV) compound-induced apoptosis. As the results of FACS analysis and immunoblotting, we confirmed several observations : 1) novel Pt(IV) complex (K101) increased Fas, p53 and ERK expression in HCT