

carbamate. On the other hand, cinnamyl 4-methoxybenzyl ether reacted with CSI to give cinnamyl N-(4-methoxybenzyl) carbamate.

[PD1-24] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

The New Erythromycin A derivatives with C-9 oxime as a treatment of Helicobacter Pylori.

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Clarithromycin is used as a H. Pylori treatment and is one of the top five best-selling antibiotics in 1997.

Roxithromycin is known as more stable than Erythromycin A under acid conditions like gastric environment. In this regards, we designed compounds to resist the strong acidic condition and to have excellent activity against H. Pylori-active. A series of erythromycin A derivatives were synthesized and tested for acid-resistant property. Biological activity against H. Pylori was evaluated.

[PD1-25] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Importance of phenyl moiety for cytotoxicity of 4-Phenyl-1-arylsulfonylimidazolidinones

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Novel 4-Phenyl-1-arylsulfonylimidazolidinones have been reported to show highly potent antitumor activity against the various cancer cell lines.

As a result of the structural modification of these compounds, the small aromatic moiety such as phenyl ring at 4-position of imidazolone ring had been identified as a structurally essential necessity for cytotoxicity.

However, the derivatives removed phenyl ring at 4-position have not been investigated. The corresponding compounds were synthesized and evaluated for their antitumor activity and compared to that of 4-phenyl compounds.

[PD1-26] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Synthesis and Antibacterial Activity of New Carbapenems Containing Isoxazole Moiety

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1 β -Methylcarbapenems exhibit a broad antibacterial spectrum against both Gram-positive and Gram-negative organisms and high stability to dehydropeptidase-I (DHP-I). Meropenem, which has a 1 β -methyl group in carbapenem nucleus, is stable to renal DHP-I and it has successively been launched on the market. In recent years, several analogues such as BO-2727, S-4661, ZD-4433,