[*Chem. Pharm. Bull.*, **46**, 900-905 (1998)] [Lab. of Pharmacognosy]

Synthesis of Four Possible Intermediates after Secologanin on the Biosynthesis of the Oleoside-, 10-Hydroxyoleoside- and Ligustaloside-type Glucosides in Oleaceous Plants.

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To examine the biosynthetic pathway from secologanin to three types of secoiridoid glucosides characteristic of oleaceous plants, synthesis of two respective stereoisomers at C-8 of 8,10-epoxysecologanin and –secoxyloganin was established and their deuterium-labeled analogues were prepared.

[*Phytochemistry*, **49**, 1333-1337 (1998)] [Lab. of Pharmacognosy]

Four Secoiridoid Glucosides from *Fraxinus insrularis*.

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Investigation of the leaves of *Fraxinus insularis* has led to the isolation of four new secoiridoid glucosides, insularoside-3'-O-β-D-glucoside, insulaside-3',6'''-di-O-β-D-glucoside, insularoside and desrhamnosyloleoacteo-side, together with ligstroside. The structures of the new compounds were determined on the basis of spectroscopic methods.

[*Chem. Commun.*, 43-44 (1998)] [Lab. of Pharmacognosy]

Chemoselective Isomerization of Amide-substituted Oxetanes with Lewis Acid to Give Oxazine Derivatives or Bicyclo Amide Acetals.

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The Lewis-acid catalyzed isomerization of secondary and tertiary amide-substituted oxetanes takes place chemoselectively, giving 5-hydromethyl-5,6-dihydro-4H-1,3-oxazines and reactive amide acetals consisting of a bicyclo[2.2.2]octane skeleton, respectively.

[*Chem. Pharm. Bull.*, **46**, 663-668 (1998)] [Lab. of Pharmacognosy]

Phenolic Compounds Isolated from Roots of *Sophora stenophylla*.

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A new prenylated flavanone glucoside (sophoraflavanone I-7-O-glucoside) and three new resveratrol oligomers, stenophyllols A-C, were isolated from the roots of *Sophora stenophylla* along with six known flavonoids and three known resveratrol oligomers. Their structures were determined by spectroscopic analysis of correlation spectroscopy involving long-range coupling and nuclear overhauser experiments.