

50% methanol and then partitioned with Ether, EtOAc, BuOH, H₂O Fraction. From Ether, EtOAc Fraction, two new hydroxybenzyl flavonoid glycoside (6-*p*-hydroxybenzyl kaempferol-7-*O*- β -D-glucopyranoside, 6-*p*-hydroxybenzyl quercetin-7-*O*- β -D-glucopyranoside) and three known flavonoids (quercetin-7-*O*- β -D-glucopyranoside, kaempferol-7-*O*- β -D-glucopyranoside, aromadendrin) were isolated and elucidated through spectroscopic methods. (IR, Mass, NMR)

In order to evaluate the efficacy of anti-oxidative, its fractions and compounds were measured radical scavenging activity and anti-lipid peroxidative efficacy on human low density lipoprotein(LDL) with DPPH method and TBARS assay.

It was revealed that Ether, EtOAc fractions and hydroxybenzyl quercetin glycoside, hydroxybenzyl kaempferol glycoside, quercetin glycoside, kaempferol glycoside have significant antioxidative activity.

[PD2-42] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Antifungal Activity of Herbal Essential Oils against *Candida* spp.

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The antifungal activities of the essential oils from *Anthemis nobilis*, *Ciderus atlantica*, *Eukalyptus globulus*, *Juniperus communis*, *Lavandula angustifolia*, *Pelargonium graveolens*, *Pogestemon patchouli*, *Rosmarinus officinalis*, *Styrax tonkinensis*, and *Thymus vulgaris* which have been recommended for the treatment of microbial infections in aromatherapy and complementary medicines, were tested against *Candida* spp. by broth dilution method and disk diffusion test.

[PD2-43] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

α -Glucosidase Inhibitory Activity of Tannins from the Fruits of *Rubus coreanum*

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Inhibitory activity assay of α -glucosidase on tannins, pedunculagin and 2,3-(S)-HHDP-D-glucose, (+)-catechin, (-)-epicatechin and procyanidin B4 which were isolated from the fruits of *Rubus coreanum* used as a tonic in Korea, were performed as a research to find out anti-diabetic principle from natural product. This study showed that a part of the hypoglycemic activity of tannins is based on α -glucosidase inhibitory activity.

[PD2-44] [04/19/2002 (Fri) 10:00 - 13:00 / Hall E]

Monoamine Oxidase Inhibitory Component from *Lithospermi Radix* (II)

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Monoamine oxidase(MAO) [EC 1.4.3.4] is a mitochondrial enzyme responsible for the catabolism of biogenic amines, including serotonin, norepinephrine, and dopamine. Thus, MAO activity might play important roles in some pathological states of central nervous system diseases such as depression, alcoholism and schizophrenia. To investigate the potential antidepressant activity, we had screened medicinal plants to search for MAO inhibitory compounds. By the screening results, we discovered that the MeOH extract of *Lithospermi Radix* showed high inhibition against MAO. According to the activity-guided fractionation, MAO inhibitory compound was isolated from Hexane fraction. Compound 1 showed significant