



BADAN PENERBIT DAN PUBLIKASI
UNIVERSITAS GADJAH MADA



THE 3rd INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY

11–12 July 2017 / Yogyakarta, Indonesia

5th Asian Network for Natural and Unnatural Material

2nd Computer Symposium

2nd Geomaritime Symposium

1st OMICS Symposium: from Genomics to Metabolomics

1st Infrastructure Technology Symposium

Time	Code	Title and Authors
13:30 – 13:45	AO-084	Cytotoxicity of isolated compounds from leaves of <i>Aglaia odorata</i> L. Mai Efdi , Syafrizayanti, Dessy Arisanti, Masayuki Ninomiya, and Mamoru Koketsu
13:45 – 14:00	AO-085	The use of secondary metabolites of mexican sunflower (<i>Tithonia diversifolia</i>) leaf as α -glucosidase inhibitor Endang Astuti and Made Gendis Putri Pertiwi
14:00 – 14:15	AO-086	Effect of precursor concentration and soaking time on glucosamine palmyrah (<i>Borassus flabellifer</i> L.) seeds extraction Nur Lailatul Rahmah , Susinggih Wijana, and Dewi Istiqomah
14:15 – 14:30	AO-087	Secondary metabolites from <i>Cinnamomum parthenoxylon</i> leaves and their biological activities Antoni Pardede , Morina Adfa, Arif Juliari Kusnanda, Masayuki Ninomiya, and Mamoru Koketsu
14:30 – 14:45	AO-088	The effect of MRN complex and ATM kinase inhibitors on UVC-treated zebrafish embryonic development Malina Kumaran, and Shazrul Fazry
14:45 – 15:00	AO-089	The anthocyanin content, colour changes and stability of thermally treated extract from rosella (<i>Hibiscus sabdariffa</i> L.) petal Suharyani Amperawati , Umar Santoso, Pudji Hastuti, and Purnama Darmadji

Secondary metabolites from *Cinnamomum parthenoxylon* leaves and their biological activities

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Cinnamomum parthenoxylon tree belongs to the *Lauraceae* family. In this study, flavonoid rutosides were isolated from *C. parthenoxylon* leaves and their hepatoprotective and antioxidant activity were evaluated. The EtOAc fraction of *C. parthenoxylon* leaves showed potent hepatoprotective activity on *t*BHP-induced cytotoxicity in HepG2 cells and also higher antioxidant activity. UPLC-ESIMS analysis revealed that flavonoid rutosides; rutin, nicotiflorin and isorhoifolin are major constituents in the EtOAc fraction. The catechol group on B ring in the structure of rutin holds potential for hepatoprotective and antioxidant activity.

Keywords: *Cinnamomum parthenoxylon*, biological activities, secondary metabolites

CERTIFICATE

OF PARTICIPATION

This is to certify that

ANTONI PARDEDE

participated as a

PRESENTER

in the 3rd International Conference on Science and Technology
held on 11–12 July 2017 in Yogyakarta, Indonesia,
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