

APPENDIX

Articles in Proceedings/Presented at Conferences/Seminar and Publication

1. Mat Ropi Mukhtar, **Azeana Zahari**, A.Hamid A. Hadi, Noel F.Thomas, Hiroko Arai, Hiroshi Morita, Marc Litaudon, Khalijah Awang. 3',4'-Dihydronorstephasubine, a new bisbenzylisoquinoline from the bark of *Alseodaphne corneri*. Heterocycles (2009), **78** (10), 2571-2578.
2. Bisbenzylisoquinoline Alkaloids from *Alseodaphne corneri*. **Azeana Zahari**, Siti Azizah, Mohd Azlan Nafiah, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. 2nd USM Penang International Postgraduate Convention 2008. Chemical Biology, (18-20 June 2008). "Innovative Exploration of New Horizons in Sciences". Universiti Sains Malaysia, Penang, Malaysia.

3. New Bisbenzylisoquinoline Alkaloids from *Alseodaphne corneri*. **Azeana Zahari**, Mohd Azlan Nafiah, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. International Seminar on Chemistry 2008 (ISC) (30-31 October 2008)." The Roles of Chemistry in the Utilization of Natural Resources". Aula Pusat Studi Jepang, Jatinangor Campus, Universitas Padjadjaran, Indonesia.
4. Alkaloids from the leaves of *Alseodsaphne corneri*. **Azeana Zahari**, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. International Conference on Molecular Chemistry 2008, (25-26 November 2008)."Current Trends in Molecular Chemistry". University of Malaya, Kuala Lumpur, Malaysia.
5. New bisbenzylisoquinoline alkaloids from *Alseodaphne corneri*. **Azeana Zahari**, Mohd Azlan Nafiah, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. 4th Mathematics and Physical Science Graduate Progress, (17-19 December 2008)."In Synergy to Aspire, to Explore, to Excel".National University of Singapore, Singapore.
6. Alkaloids isolated from *Alseodaphne corneri*. **Azeana Zahari**, Mohd Azlan Nafiah, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. Second Collaborative Conference UNAIR – USM, (10-11 February 2009)." Synergy For Enhancement Of Quality Of Life". University of Airlangga, Surabaya, Indonesia
7. Antiplasmodial Alkaloids from *Alseodaphne corneri*. **Azeana Zahari**, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. Malaysian Natural Products International Seminar (23-24 November 2009)."Natural Products R & D: Leads from Nature". University Malaysia Pahang, Kuantan, Malaysia.

8. Antihypertensive Alkaloids from *Alseodaphne corneri*. **Azeana Zahari**, Mohd Azlan Nafiah, Khalijah Awang, A.Hamid A. Hadi and Mat Ropi Mukhtar. 5th Mathematics and Physical Science Graduate Progress (7-9 Disember 2009). "Science and Technology for a Sustainable Future". Faculty of Science, Chulalongkorn University, Bangkok, Thailand.

**2nd USM Penang International
Postgraduate Convention 2008**



Chemical Biology:
Innovative Exploration of New Horizons in Science

ABSTRACT BOOK



18 - 20th June 2008
Universiti Sains Malaysia
Penang, Malaysia



NAT P1-3

ANTIMICROBIAL ACTIVITY OF EIGHT MEDICINAL PLANTS FROM MALAYSIA

Sri Nurestri Abd Malek, Sim Kae Shin, Koshy Philip, Hong Sok Lai, Lee Guan Serm, Syarifah Nur Syed Abdul Rahman and Gowri Kanagasabapathy

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Thirty-two (32) extracts from eight selected medicinal plants, namely *Pereskia bleo*, *Pereskia grandifolia*, *Curcuma aeruginosa* Roxb., *Curcuma zedoria*, *Curcuma mangga*, *Curcuma inodora* aff. *Blatter*, *Zingiber officinale* var. *officinale* (jahe gajah) and *Zingiber officinale* var. *rubrum* (jahe emprit) used by Malaysian traditional health care practitioners were screened for their antimicrobial activity against both Gram-positive bacteria and Gram-negative bacteria using agar disc diffusion assay. The efficacy of the extracts was compared to the commercially prepared antibiotic diffusion discs. *Curcuma mangga* showed some remarkable inhibition against the bacteria used in this study. No inhibition was observed with the water fractions. None of the plants tested showed inhibition against *Escherichia coli*.

Keywords: Antimicrobial activity, agar disc diffusion assay, Malaysia medicinal plants

NAT P1-4

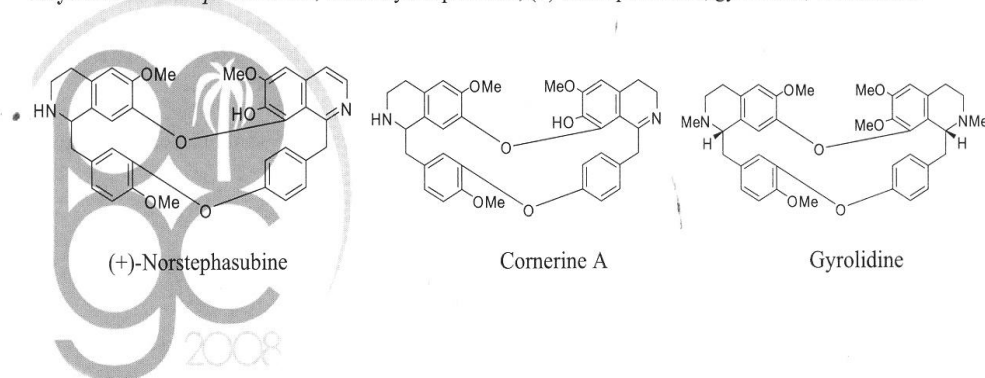
BISBENZYLISOQUINOLINE ALKALOIDS FROM *ALSEODAPHNE CORNERI*

Azeana Zahari, Siti Azizah, Mohd Azlan Nafiah, Mat Ropi Mukhtar, Khalijah Awang and A. Hamid A. Hadi

*Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur,
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A phytochemical study on the bark of *Alseodaphne corneri* (Lauraceae) has yielded two known bisbenzylisoquinolines; (+)-norstephasubine and gyrolidine, and one new bisbenzylisoquinoline; cornerine A. Isolation and structural elucidation of the alkaloids were performed via spectral methods, namely 1D- and 2D-NMR, IR, UV and MS.

Keywords: *Alseodaphne corneri*, bisbenzylisoquinoline, (+)-norstephasubine, gyrolidine, cornerine A



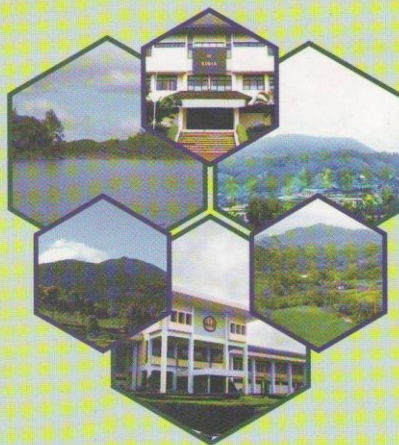
International Seminar on Chemistry 2008

*"The Roles of Chemistry in
the Utilization of Natural Resources"*

Program and Abstracts

Aula Pusat Studi Bahasa Jepang
Jatinangor Campus, Universitas Padjadjaran

30-31 October 2008



organized by

Department of Chemistry
Faculty of Mathematics and Natural Sciences
Universitas Padjadjaran

in cooperation with

Indonesian Chemical Society



New bisbenzylisoquinoline alkaloids from *Alseodaphne corneri*

Azeana Zahari^{1*}, Mohd Azlan Nafiah², Khalijah Awang¹,
A.Hamid A.Hadi¹, Mat Ropi Mukhtar¹

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Alseodaphne is a small genus of trees that belongs to the family of Lauraceae is widely distributed in India, southern China and Malaysia. Most of the trees are excellent timbers especially from the southern of India, Ceylon and Malaysia. Many species of *Alseodaphne* are recognized by the local with names such as *medang kunyit*, *medang tanduk*, *medang kapas* and many more. A phytochemical study on the bark of *Alseodaphne corneri* (Lauraceae) has yielded two new bisbenzylisoquinolines; cornerine A and cornerine B. Two known bisbenzylisoquinoline alkaloids were also isolated from this species; gyrolidine and norstephasubhine. Isolation and structural elucidation of the alkaloids were performed via spectral methods, namely 1D & 2D NMR, IR, UV and HRMS

Keywords: *Alseodaphne corneri*, bisbenzylisoquinoline, cornerine A, cornerine B

Program and Abstracts

International Conference on Molecular Chemistry 2008

Current Trends in Molecular Chemistry

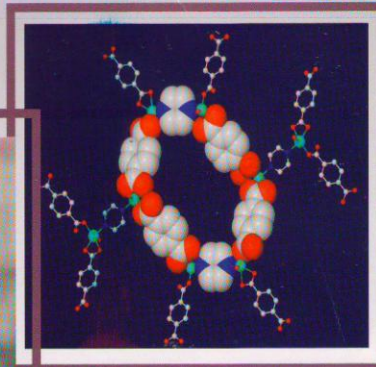
University of Malaya
Kuala Lumpur, Malaysia

25 – 26 November 2008 (Conference)
27 November 2008 (Workshop)

E-mail: icmc_08@um.edu.my
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Scope
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P5

Alkaloids from the leaves of *Alseodaphne corneri*

Azeana Zahari, Mat Ropi Mukhtar, Khalijah Awang and A.Hamid A.Hadi

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ezianna@gmail.com*

A phytochemical study on the leaves of *Alseodaphne corneri* (Lauraceae), which belongs to the family of Lauraceae, was performed. The studies has yielded four known compounds; isocorydine, norisocorydine, norboldine and liriiferine. The structural elucidation of the alkaloids were performed by using 1D and 2D NMR, IR, UV and MS.

***4th Mathematics and Physical Sciences
Graduate Congress***

Faculty of Science
National University of Singapore
17-19 December 2008

ABSTRACTS

By Topic and Presentation Type

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New Bisbenzylisoquinoline Alkaloids from *Alseodaphne corneri*

¹Azeana Zahari, ²Mohd Azlan Nafiah, ¹Khalijah Awang, ¹A.Hamid A.Hadi,
³Hiroshi Morita and ¹Mat Ropi Mukhtar

¹Department of Chemistry, Faculty of Science, University of Malaya,

²Department of Chemistry, Faculty Science and Technology, University Pendidikan Sultan Idris, Malaysia,

³Faculty of Pharmaceutical Sciences, Hoshi University, Tokyo, Japan,
(ezianna@gmail.com)

Keywords: *Alseodaphne corneri*, *Bisbenzylisoquinoline*, *Cornerine A*, *Cornerine B*.

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UNIVERSITI SAINS MALAYSIA

2nd Collaborative Conference
UNAIR - USM P-065
2009

ALKALOIDS ISOLATED FROM *ALSEODAPHNE CORNERI*

Azeana Zahari¹, Mohd Azlan Nafiah², Khalijah Awang¹, A.Hamid A.Hadi¹, Mat
Bani Mukhter¹



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SYNERGY FOR ENHANCEMENT OF
QUALITY OF LIFE

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Dr. Marcellino Rudyanto
Chairman of Organizing Committee



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"NATURAL PRODUCT R&D: Leads from nature"

PROGRAM BOOK & COMPILATION OF ABSTRACTS

23-24 November 2009
M.S. Garden Hotel, Kuantan



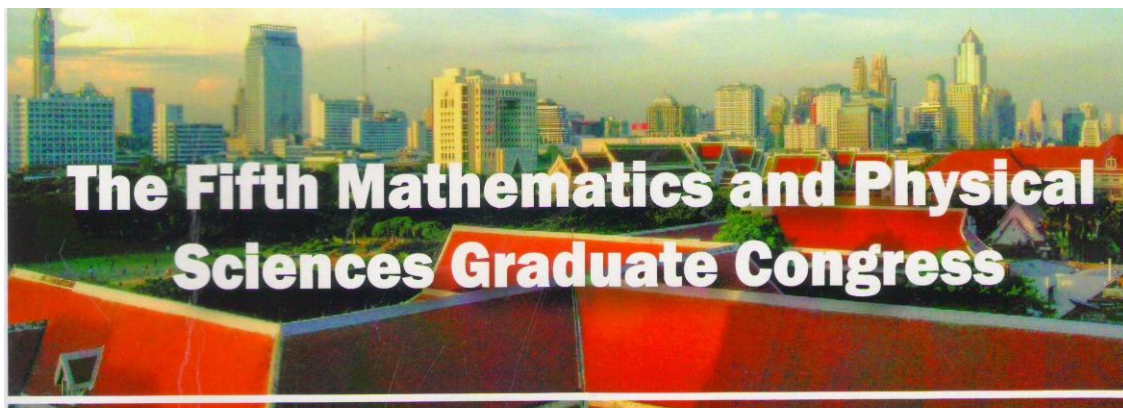
Antiplasmodial Alkaloids Isolated from the Leaves of *Alseodaphne Corneri*

Azeana Zahari, Mat Ropi Mukhtar, Khalijah Awang, A.Hamid A.Hadi
*Department of Chemistry, Faculty of Science, University of Malaya, 50603
Kuala Lumpur, Malaysia.
Email: ezianna@gmail.com*

Keywords: *Alseodaphne corneri*, isocorydine, norisocorydine, N-Methyl laurotetanine and N-methyl lindcarpine

Abstract

Alseodaphne genus belongs to the family of Lauraceae is widely distributed in India, southern China and Malaysia. Most of the trees are excellent timbers especially from the southern of India, Ceylon and Malaysia. Locally, many species of *Alseodaphne* are recognized with names such as *medang kunyit*, *medang tanduk* and *medang kapas*. *Alseodaphne corneri* the species from the family Lauraceae, has been known to produce various new alkaloid structures as well as alkaloids of medicinal values. A phytochemical study performed on the leaves of *Alseodaphne corneri* has yielded four known compounds: isocorydine, norisocorydine, N-Methyl laurotetanine and N-methyl lindcarpine. Isolation and structural elucidation of the alkaloids were performed via spectral methods namely 1D: ¹H, ¹³C NMR and 2D: COSY, HMQC, HMBC and IR, UV, MS. The results of plasmodium falciparum inhibition (on FCB 1, a resistant strain) and on MRC5, a human fibroblast cell line give moderate activity towards antiplasmodial activity.



The Fifth Mathematics and Physical Sciences Graduate Congress

7 - 9 December 2009

Faculty of Science, Chulalongkorn University, Bangkok, Thailand



The 5th Mathematics and Physical Sciences Graduate Congress

Meeting Guide and Abstracts



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KUALA LUMPUR



NUS
National University
of Singapore

Antihypertensive Alkaloids from *Alseodaphne Corneri*

Azeana Zahari¹, Mohd Azlan Nafiah², Khalijah Awang¹, A.Hamid A.Hadi¹, Mat Ropi Mukhtar¹.

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Keywords: *Alseodaphne Corneri*, Bisbenzylisoquinoline, 3',4'-dihydronorstephasubine.

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