THE 3rd INTERNATIONAL CONFERENCE ON
THE MEDICINAL USE OF HONEYBEE PRODUCTS
Honey: “From Traditional To Modern Medicine”

PROGRAM & ABSTRACT BOOK

20-22 November 2013
Hasanuddin University,
Makassar, INDONESIA
2nd Day (21 November 2013)

Venue: Auditorium, Hospital of Hasanuddin University

Plenary 1 & 2
08.30 am - 10.00 am; Chairperson: Prof. Dr. Elly Wahyudi

Ple 1
Title: *Personalised medicine and Traditional care: One common interdisciplinary challenge.*
Prof. Dr. Philippe Sabatier
(Consortium Coordinator, Faculté de Médecine, EPSPTIMG IMAG, Université Joseph Fourier-Grenoble.)

Ple 2
Title: *The Role of Manuka Honey in Treating Wounds.*
Prof. Rose Cooper, PhD
(Cardiff School of Health Sciences, Cardiff Metropolitan University, England)

Coffee break

Free Paper Presentation 2
Research on Honey/Honeybee products 2
10.30 am – 11.30 am; Chairperson: Prof. Dr. Stefan Stangaciu

Free 2 - 01
Title: *Review: The Prospective Of Honey Products In Stem Cells Research*
Muhammad Lokman M.I et al.
(International Islamic University, Malaysia)

Free 2 - 02
Title: *HPLC-ESI-QTOF-MS Approach to Characterize Polyphenols From the Malaysian Pineapple Honey*
R. Salfarina et al.
(Dept. Of Pharmacology and Chemistry, Faculty Of Pharmacy, UniversitiTeknologi MARA, Malaysia.)

Free 2 - 03
Title: *Substitution of Casein for Starch, Carboxymethyl Cellulose And Dextrin As Additives To Produce Honey Powder*
DewiTrisantini et al
(Dept. Of Chemical Engineering, University Of Indonesia, Indonesia.)

Free 2 - 04
Title: *PropolisAnd Its Potential Uses In Conservative Dentistry To Improve Oral Health*
Ardosari, et. Al
(Dept. Of Conservative Dentistry, Faculty of Dentistry, Hasanuddin University, Indonesia)

Free 2 - 05
Title: *Histological Description Of Liver in Protein-Energy Deficiency Mice After Honey Supplementation*
Joni Susanto, et al.
(Dept. Of Anatomy-Histology, Faculty Of Medicine, Airlangga University, Indonesia)
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<td>Gelam Honey Attenuated Radiation - Induced Cell Death In Human Diploid Fibroblast By Promoting Cell Cycle Progression And Inhibiting Apoptosis.</td>
<td>Suzana Makkol, et al.</td>
<td>Department Of Biochemistry, Faculty Of Medicine, Universiti Kebangsaan Malaysia</td>
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<td>Evaluations Of Taiyang Honey And Its Innovative Formulations Of Spray And Gel On Full Thickness Burn Wound In Diabetic Rats.</td>
<td>Lavaniya Manivannan, et al.</td>
<td>Department Of Pharmacology, School Of Medical Sciences, University Sains Malaysia</td>
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<td>Liver Function And Glucose Level Measurements Following 6 Months Taiyang Honey Administration In Rats.</td>
<td>Nor Azeera Mohd Ali, et al.</td>
<td>Department Of Pharmacology, School Of Medical Sciences, University Sains Malaysia</td>
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<td>Antimicrobial Activity Of bee Venom With Diffusion Methods Against Streptococcus And Staphylococcus Isolated From Patients With Upper Respiratory Tract Infection</td>
<td>Shelly Salmah, et al.</td>
<td>Department Of Biomedic-Pharmacology, Faculty Of Medicine, Hasanuddin University, Indonesia</td>
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<td>Antibacterial Activity Of Bee Venom With Diffusion Methods Against S. Typhii And E. Coli Isolated From Gastroenteritis Patients.</td>
<td>Dara Ugi Aras, et al.</td>
<td>Department Of Biomedic-Pharmacology, Faculty Of Medicine, Hasanuddin University, Indonesia</td>
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<td>Determination Of Flavonoid Groups In Propolis And Its In Vitro Antibacterial Activity Against Streptococcus Mutants.</td>
<td>Ardo Sabir, et al.</td>
<td>Department Of Conservative Dentistry, Faculty Of Dentistry, Hasanuddin University, Indonesia</td>
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<td>Effect of Honey bee pollen administration for one months on hemoglobin status in school age children in Makassar</td>
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<td>Effect of Honey bee pollen administration for one months on appetite and weight in school age children in Makassar</td>
<td>Nursyih Khas Malik, Abdul Salam, Rahayu Indrasari</td>
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<td>Effect of Pure Honey on fasting glucose in obesity in Makassar</td>
<td>Reni Noviati, Yusma Indah Jayadi, Agussalim, Abdul Salam</td>
<td>Faculty Of Public Health, Hasanuddin University, Indonesia</td>
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<td>Effect of Pure Honey on lipid profile in obesity in Makassar</td>
<td>Yusna Indah Jayadi, Reni Noviati, Agussalim, Salam</td>
<td>Faculty Of Public Health, Hasanuddin University, Indonesia</td>
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P05
TITLE: Antibacterial Activity Of With Diffusion Method Bee Venom Against S. Typhi And E.Coli Isolated From Gastroenteritis Patients
AUTHORS: Dara Ugi Aras, Rosldana Natsir, Natsir Djide
Biomedical Pharmacology Faculty, Biochemistry, Faculty of Medicine, Microbiology, Pharmacy Faculty, Hasanuddin University
ABSTRACT: The aim of this research was to study antibacterial activity of bee venom on S. typhi and E. coli which isolated from acute gastroenteritis patients.
METHODS: Bee venom was taken from A. cerana honeybee, by cutting the venom sac and dissolved in PBS solution. Antibacterial activity test use diffusion method (Modified Kirby-Bauer method) with pour plate method. The result was analyzed by Independent T-test.
RESULTS: The 24-hours result showed that extract 25%, 50%, 75%, and 100% possess bacterial inhibition activity. Extract concentrations 100% were effectively inhibit sensitive-antibiotic S. aureus and resistant-antibiotic E. coli. Increased concentration of bee venom shows increasing the inhibition zone of the bacteria.
CONCLUSION: Observation after 48-hour shows increasing of inhibition zone of the bacteria, which said as bactericid property of bee venom.

P06
TITLE: DETERMINATION OF FLAVONOID GROUPS IN PROPOLIS AND ITS In Vitro ANTIBACTERIAL ACTIVITY AGAINST Streptococcus Mutans
AUTHORS: Ardo Sabir
Department of Conservative Dentistry, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia
ABSTRACT: The purpose of present study was (1) to determine flavonoid groups in propolis, and (2) to evaluate in vitro the antibacterial activity of flavonoids propolis against Streptococcus mutans (S. mutans).
METHODS: Propolis was collected from honeycombs in Bulukumba regency, South Sulawesi Province, Indonesia. To determine flavonoid groups in propolis, propolis was subjected to exhaustive maceration, filtered using aqueous ethanol solution and concentrated using a rotary evaporator. The residue was separated using toluene solution to yield flavonoid fraction which was analyzed using Thin Layer Chromatography (TLC) method. The purification and determination of flavonoids group was carried-out by UV-radiation at max 366 nm and based on color reactions according Mahy et al. The present result showed that flavonoid groups in the propolis were flavone, flavanone, flavanol and chalcone groups. After that, to evaluate in vitro antibacterial activity of flavonoids propolis against S. mutans, extract flavonoids was diluted in aqua dest to 0.05%; 0.075%; 0.1%; 0.25%; 0.5%; 0.75% concentrations. Aqua dest and 10% Povidone iodine were also used as control solution. S. mutans were grown in medium glucose nutrient agar and incubated with flavonoids for 24 and 48 hours at 37°C. Antibacterial activity was reflected by the diameter of the inhibition zones around the stainless steel cylinder. The data were analyzed by using ANOVA followed by LSD tests with significance level of 5%.