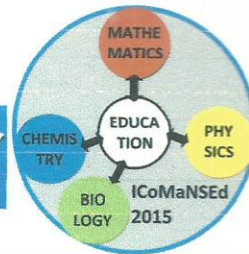




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Annual Meeting of Mathematics and Natural Sciences Forum of Indonesian Institutes of Teacher Training and Education Personnel (MatricesFor IITTEP)

In Conjunction With:

International Conference on Mathematics, Natural Sciences, and Education (ICoMaNSEd 2015)

August 07-08, 2015, Aryaduta Hotel Manado, Indonesia

Book of Abstracts & Program



Theme:

"Enhancement and Acceleration on Research and Learning in Mathematics and Natural Sciences for the Utilization of Natural Resources"

Supported and Coordinated by:



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WELCOME MESSAGE FROM EVENTS CHAIR



Best wishes to us

May God bless upon us

Assalamu'alaikum wa Rahmatullahi wa Barakatuh

Your excellency The President of Manado State University (UNIMA) Prof. Dr. Ph. E. A. Tuerah, M.Si., DEA., ladies and gentlemen, good morning and welcome to Manado, North Sulawesi, especially to Manado State University.

This seminar entitled the International Conference on Mathematics, Natural Sciences, and its Education (ICoMaNSEd): ***Enhancement and Acceleration on Research and Learning in Mathematics and Natural Science for the Utilization of Natural Resources*** is organized by Faculty of Mathematics and Natural Sciences, Manado State University, supported and coordinated by 12 members of Association of the Faculty of Mathematics and Natural Sciences from Teacher Program (LPTK).

Ladies and gentlemen, on behalf of the committee of this conference, I would like to thanks and give the highest appreciation to keynote speakers including:

1. Prof. David F. Treagust, Ph.D., FSB., FAERA (Curtin University, Perth, Australia)
2. Rebecca Johnson, MA (Columbia University, USA)
3. Ed van den Berg, Ph.D (Free University, Amsterdam, The Netherlands)
4. Assoc. Prof. Dr. Vichit Rangpan (Yala Rajabhat University, Thailand)
5. Prof. Dr. Syamsu Qamar Badu, M.Pd (State University of Gorontalo, Indonesia)

I would like also to give thanks and gratitude to the invited speakers from 12 universities including:

1. Assoc.Prof. Dr. Kamisah Osman (The National University of Malaysia)

2. Dr. Ir. Sri Nurdianti, M.Sc (Bogor Agricultural University, Indonesia)
3. Prof. Ferdy S. Rondonuwu, Ph.D (Satya Wacana Christian University, Salatiga, Indonesia)
4. Prof. Dr. Zulkardi, M.I.Komp, M.Sc (Sriwijaya University, Palembang, Indonesia)
5. Prof. Dr. Julius H. Lolombulan, MS (Manado State University, Indonesia)
6. Prof. Drs. Manihar Situmorang, M.Sc., Ph.D (Medan State University, Indonesia)
7. Prof. Dr. Liliarsari, M.Pd (Indonesian Education University, Bandung, Indonesia)
8. Dr. Slamet Suyanto (Yogyakarta State University, Indonesia)
9. Dr. Suharto Linuwih, M.Si (Semarang State University, Indonesia)
10. Prof. Dr. Subandi, M.Si (Malang State University, Indonesia)
11. Dr. Hj. Yuni Sri Rahayu, M.Si (Surabaya State University, Indonesia)
12. Suwardi Anas, M.Sc., Ph.D (Makasar State University)

Now, I would like to special thanks to 156 speakers and all of participant required in this seminar.

Ladies and gentlemen, to be able to display text in the real international standard, required not only the international community of scientists involved in the research process, but is also involved in the process of publication. Therefore, I expect this event to be a dissemination of the lecturer researches.

Finally, I am delighted to thank to all the members of the committee who have been working very hard for the success of this conference.

Please enjoy the conference and enjoy in Manado city. Thank you very much.

Dr. Rymond J. Rumampuk, M.Si

WELCOME ME



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LIST OF ABSTRACTS

ORAL PRESENTATION

CATEGORY: MATHEMATICS AND MATHEMATICS EDUCATION

- 080Mth** **Dr. Hartono**
Stability of Vibration Oscillator with a Time-Varying Mass
- 121Math** **James Uriel Livingstone Mangobi**
EIR Model Simulation with Half-Infected Mosquitoes
- 055MathEd** **Patricia V. J. Runtu**
The Potential and The Challenges of The Development and The Implementation of Thematic Task-Based Assignment Instruction in Mathematics Community in Sangihe
- 063MathEd** **Navel Oktaviandy Mangelep**
The Students' Mathematical Literacy Skill in Solving Pisa-Type Mathematics Problems
- 083MathEd** **Sahid, M.Sc.**
Utilizing ICT to Support Joyful Learning in Mathematics Teaching and Learning
- 096MathEd** **Robby J. Wenas**
The Effect of Realistic Mathematics Learning Approach and Authentic Assessment on Students' The Achievement In Mathematics by Controlling The Students' Prior Knowledge
- 104MathEd** **Abdul Rahman, Ansari Saleh Ahmar**
The Influence of Cooperative Learning Model Towards Learning Outcomes in Mathematics Based on Students' Learning Style at X Class at SMANegeri 3 Makassar
- 117MathEd** **Tatag Yuli Eko Siswono, Abdul Haris Rosyidi, Ika Kurniasari, and Yuliani Puji Astuti**
Exploring Elementary Teachers' Belief and Understanding about Mathematical Problem Solving

16.47-16.55	17.3MathEd	124Chem	176Chem	095Bio	171Bio	167PhysEd	159Phys	084PhysEd	087PhysEd	156NSEd
16.55-17.03	174MathEd			105Bio	175Bio					
17.15-18.30	Discussion (10 min)									
18.30-18.40	B R E A K									
19.00-21.00	GATHERING AT LOBBY HOTEL FOR GALA DINNER									
	CLOSING CEREMONY AND GALA DINNER AT MAYOR HOUSE									

- 092Chem** **Wilson A.R. Rombang**
Naphtyridine Alkaloids from Bunaken Marine Park Sponge Aaptosp
- 093Chem** **Rymond J. Rumampuk**
An Extensive High-Field NMR Study on Triterpene Saponins
- 099Chem** **Ni Wayan Suriani**
The Effect of Drying Temperature and Duration on the Fatty Acid Profile of Minced Jerked Broiler Chicken Meat
- 101Chem** **Muharram, St. Nurzulaiha, Nurrahmania, IwanDini, Pince Salempa and Maryono**
Antibacterial Compounds Characterization in Chloroform Extract Leaves of Tahiyam Plant (Lantana camaraLiin.)
- 106Chem** **Dian H. O. Howan**
Sturcture-Activity Relationship (SAR) of Endocytosis Inhibitors
- 111Chem** **Dr. Pince Salempa, M.Si.**
Screening Bioactive Compound of Stem Bark Soursop (Annonamuricata Linn) Potential for Anti-Cancer
- 113Chem** **Yuszda K. Salimi and Nurhayati Bialangi**
Phytochemical Constituents and Antioxidant Activity of Binahong (Anrederacordifolia Ten. Steenis) Leaves
- 122Chem** **Nurhayati Bialangi, Wenny J.A. Musa, and Chairunnisah Lamangantjo**
Antifeedant Activity of Methanol Extract of Acorus calamus Against Epilachna sparsa
- 123Chem** **Weny Musa, Jusna Ahmad, and Chairunisah. J. Lamangantjo**
Bioactive Compound From Derris elliptica (Roxb.) as SyntehecticPesticidies On Rice Is Esophageal Hama

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**BIOACTIVE COMPOUND FROM *Derris elliptica* (Roxb.) AS
SYNTEHECTIC PESTICIDIES ON RICE IS ESOPHAGEAL HAMA**

Weny Musa^{1*}, Jusna Ahmad¹, and Chairunisah. J. Lamangantjo¹

¹Department of Chemistry, Faculty of Mathematics and Sciences, State
University of Gorontalo, Gorontalo, Indonesia

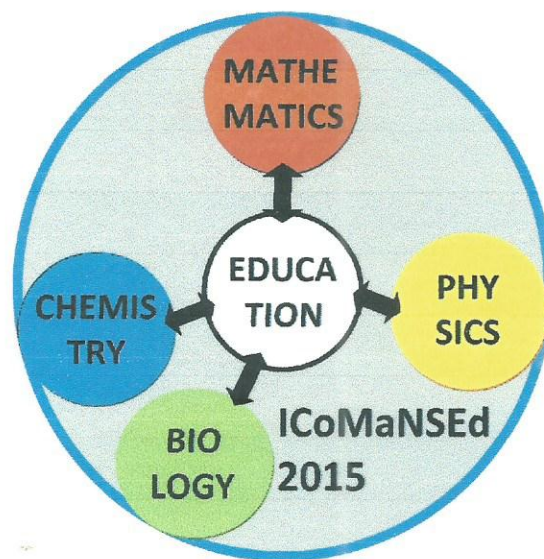
*moesa_wenny@yahoo.com

Abstract

Isolation and characterization of secondary metabolites compounds from roots tuba (*Derris elliptica* (Roxb.) Benth). This study aims to isolate and identify secondary metabolites from plant roots tuba (*Derris elliptica* Benth). A total of 500 grams of dry sample tube roots macerated with methanol for 3 × 24 hours. Maserat were then in evaporation and produce condensed methanol extract as much as 15 grams. the extract condensed as much as 10 grams of methanol was suspended with water and methanol. Then partitioned with n-hexane, the results of partition generate 0.85 g of n-hexane extracts. then the water fraction partitioned again with ethyl acetate and 2.51 grams of ethyl acetate extract as much water as 8.18 g. methanol extract was condensed and then separated by column chromatography and tested purity by TLC and pure isolates obtained which isolates the number 1. The result of phytochemical showed positive isolates containing flavonoids.

Keywords: Roots tuba, isolation, characterization, secondary metabolites

Basic form of a large circle symbolizes Mathematics, Science and Education as an integral unit of basic education and basic science, and states the symbol of mathematics geometry. Five small circle-shaped model of molymod express linkage development areas of Mathematics and Science which are centered on education activities. Red for Mathematics states: spirit, gives energy, symbol, action, passion, strength and joy. Yellow for Physics states: warmth and happiness, cheerful symbol and optimistic spirit, stimulate the mind and mental activity. Green for Biology states: calm and relax, the impression of balance the emotions, the symbol of openness and communication, color of hope and the future, justice and peace. Blue for Chemistry states: the calming effect and professional impression and trust. Stimulate communication skills, artistic expression, symbol of strength, able to calm the mind and improve concentration. Generally as a corporate base color, gray for Natural Science Education states: security, reliability, simplicity, and maturity. White for Education states: freedom and openness, represent the purity impression, chaste clean, symbol of peace.



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