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 (Courtin 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. Liliasari, 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
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BIOACTIVE COMPOUND FROM Derris elliptica (Roxb.) AS SYNTHEHETIC PESTICIDIES ON RICE IS ESOPHAGEAL HAMA

Weny Musa\textsuperscript{1*}, Jusna Ahmad\textsuperscript{4}, and Chairunisah. J. Lamangantjo\textsuperscript{1}

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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 \times 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 molyom 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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