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BOOK OF PROGRAMME AND ABSTRACT



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“Industry based on Knowledges”

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No.	Author's	Title	Page
6.	Burhanudin Malik Dewi Apri Astuti, Jajat J.F. Arief, Min Rahminiwati	A Study on Antioxidative and Antimicrobial Activities of Saliva Extract of Indonesian Local Leeches	74.
7.	Dafni Mawar Tarigan, Bambang SAS, and Hasanul Arifin Marmen	Application of Green Manure and Rabbits Urine Affect Morphological Characters of Sweet Corn Plant (<i>Zea mays saccharata</i> Strut) in Lowland of Deli Serdang District	75.
8.	Desi Ardilla ¹ , Herla Rusmarilin ² , Adi Purnama	Study The Physical And Chemical Properties Of Bioethanol From Pineapple Skin (<i>Annanas comusus</i> L.Merr)	76.
9.	Dewi Rezki, Siska Efendi and Herviyanti	Humic Substance Characterization of Lignite as a Source of Organic Material	77.
10.	Dina Wahyu Indriani, Sumardi Hadi Sumarlan, Nurul Dwi Hidayani, Arie Febrianto Mulyadi	Effect Of Addition Of Sodium Benzoates Concentration In Green Sugar Cane Juice (<i>Saccharum Officinarum</i> L.) On The Application Pulsed Electric Field (Pef) Continuous System	78.
11.	Donald John Calvin Hutabarat, Fransisca Rungkat Zakaria, Endang Yuli Purwani, Maggy Thenawidjaja Suhartono	Sca Profile of Rice RS Fermentation By Colonic Microbiota, <i>Clostridium butyricum</i> BCC B2571, or <i>Eubacterium rectale</i> DSM 17629	79.
12.	Eri samah, Jamsari and Wizna	Isolation of Cellulolytic Degradation Bacteria of Acedic Soil and Activity Enzyme Endoglukunase, Exoglukonase, Growth ,Protein Test	80.
13.	Giovani Naura A., Aswaldi Anwar, and P.K. Dewi Hayati	Physical And Chemical Properties Of Oil Palm (<i>Elaeisguineensisjacq.</i>) Seed And Its Viability And Vigor	81.
14.	Jamilah, MP, Sri Mulyani, Juniarti	Nutritional Composition Of Ruminant Forage Derived From Rice Crops (<i>Oryza Sativa</i> L.) That Applied By <i>C.Odorata</i> Compost	82.
15.	Khairunnisa Rangkuti, Desi Novita and Bima Mahdi	Soybean prices rise to revenue out small scale Industries medan	83.
16.	Kuswandi, Makful, Sahlan, Mega Andini	Evaluation Performance of Some Hybrid of Watermelon from Indonesian Tropical Fruit Research Institute	84.
17.	Masyhura MD ,Budi Suarti, Evan Ardyanto AS	Increase Moringa Leaf Powder and Long Roasting on Protein Content in the Making of Cookies from Mocaf (<i>modified cassava flour</i>)	85.
18.	Mega Andini, Riska and Kuswandi	Effectiveness Of Liquid Smoke To Control Mealybug On Papaya	86.

Nutritional Composition Of Ruminant Forage Derived From Rice Crops (*Oryza Sativa* L.) That Applied By *C.Odorata* Compost

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Abstract

The study about the Nutritional Composition Of Ruminant Forage Derived From Rice Crops (*Oryza Sativa* L.) that Applied By *C.odorata* Compost had been conducted in the District Koto Tengah, Padang, West Sumatra began in June 2015 through October 2015. The study aimed to get good quality forage and yield in the cultivation of two varieties rice crops that applied *C.odorata* compost. Varieties tested were Pandan Wangi and Cisokan. The experiment was arranged in the split plot design. The main plot there were 2 levels cutting rice forage, which was not cut (Po) and cut as high as 15 cm of the soil surface (P1). The subplot was *C.odorata* compost combined with fertilizers consisting of 3 levels; B1. 5 Mg ha⁻¹ *C.odorata* compost + 100% fertilizer dose recommendation (FDR); B2. 7.5 Mg ha⁻¹ *C.odorata* compost + 75% FDR and B3. 10 Mg ha⁻¹ *C.odorata* compost + 50% FDR in three replications. Data were analyzed in variance at 5% significance level, and HSD test at 5% significance level. The parameters were ADF, NDF, crude Protein, crude fiber, cellulose, hemicellulose, lignin, silicates, panicle length, 1000 grain weight, rice yield. The results showed that *C.odorata* Compost + FDR did not show different effects both on the growth and rice yield. Production of the highest forage obtained from Pandan Wangi rice crop reached 7.17 Mg ha⁻¹. Crude protein as much as 9.83% and 13.99%, crude fiber amounted to 18.31% and 20.15%, the rice yield as many as 6.29 Mg ha⁻¹; 4.21 Mg ha⁻¹ by Pandan Wangi and Cisokan respectively.

Keywords: *C.odorata* compost, Pandan Wangi, Cisokan, ruminants forage

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