Judul Artikel: Uric acid levels on sub-chronic oral administration of Cassava leaf extract, Penulis: W H Nugrahaningsih*, I B Wulandari, N A Habibah and A Marianti,

Nama Seminar/Konferensi/Simposium: The 1st International Conference on Mathematics and Natural Sciences Education, Research and Assessment (ICMANSERA) 2020, Penyelenggara Seminar/Konferensi/Simposium: FMIPA Universitas Negeri Manado, Waktu Pelaksanaan Seminar/Konferensi/Simposium: 15 Oktober 2020, ISBN/ISSN: 17426588, 17426596

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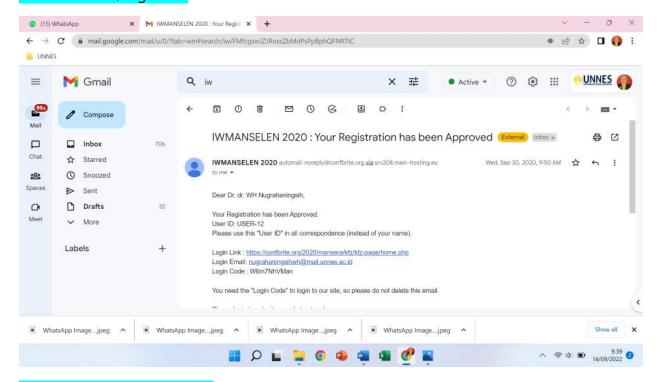
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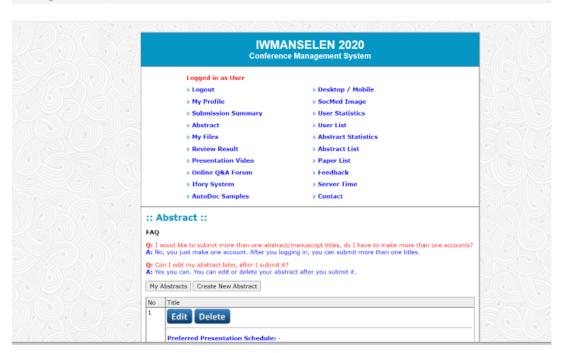
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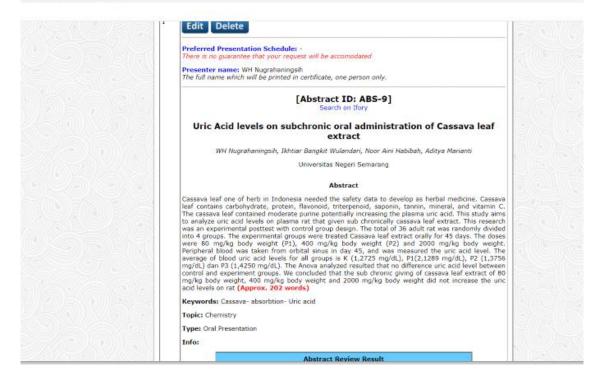
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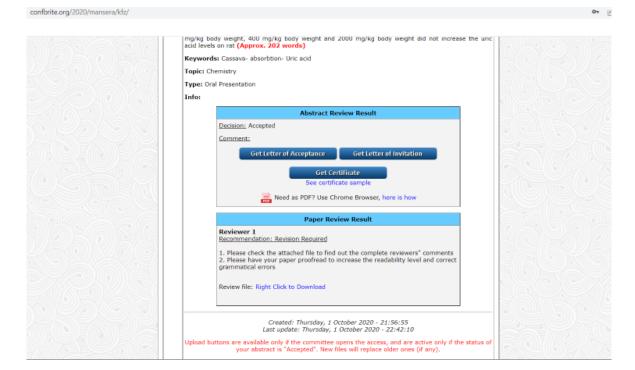
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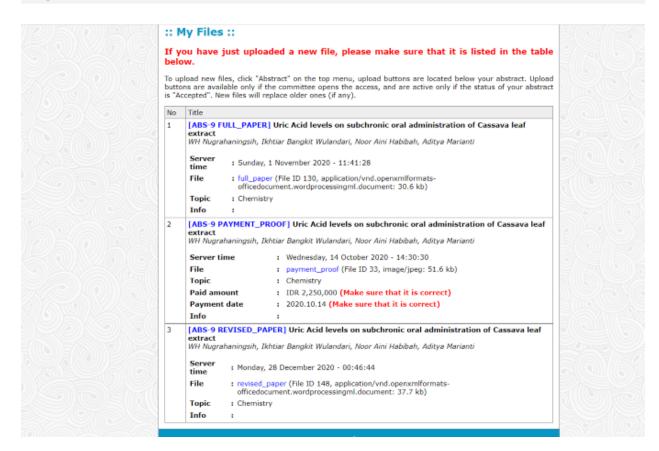
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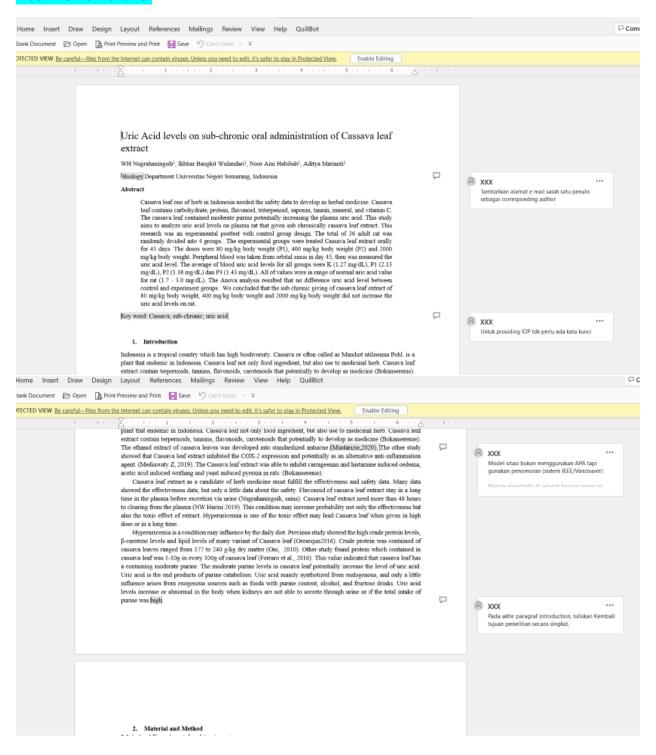
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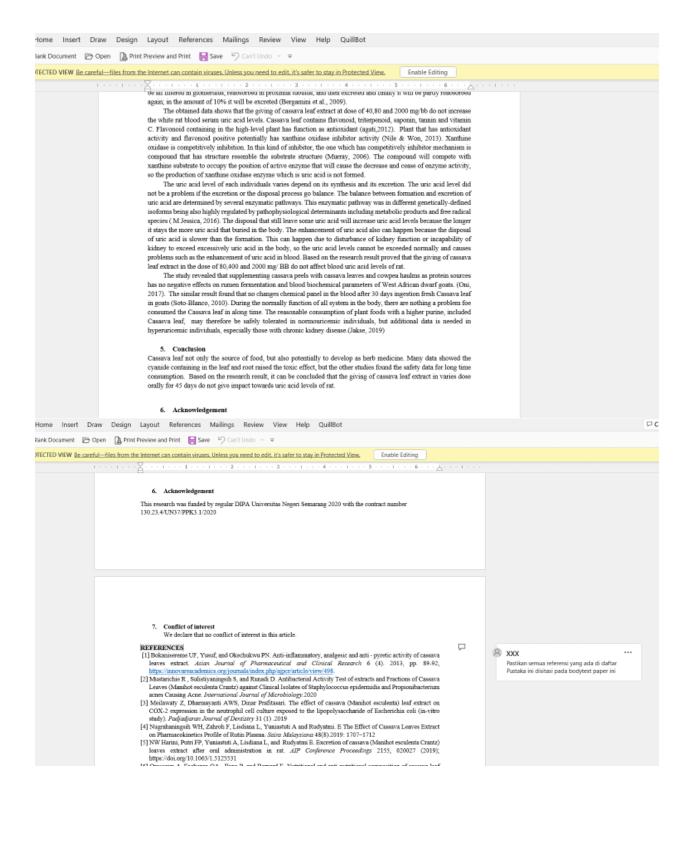
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cassava leaf extract. All of values were in range normal uric acid levels of rat (mazzali et al. 2002). Its means that subchronic oral treatment of extract didn't influence the purine metabolism of rat.

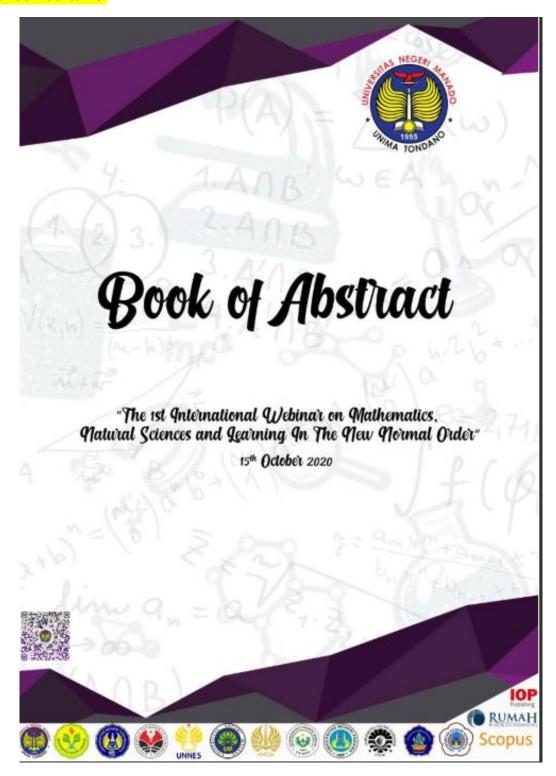
Uric acid in blood at normal levels act as a natural antioxidant by completing the deficiency of electron and inhibit the occurrence of chain reaction from free radical formation which can cause oxidative stress (Angelina et al. 2014). If the uric acid is excessive, the uric acid will not be accommoded and metabolized at all by the body. This matter that causes the enhancement of uric acid in blood. Uric acid is formed in liver and released into the blood circulation.

In this study, the uric acid of all groups was in the normal range. This was caused by the formed uric acid is directly released through kidney. The end of uric acid metabolic process, the uric acid was excreted via urine in the normal value:165-335 mg/dL. Normal function of kidney has sential role in managing uric acid levels, because kidney set the excessively uric acid excretion in the body. Uric acid is mainly excreted through kidney where it will be all filtered in glomerulus, reabsorbed in proximal tubulus, and then excreted and finally it will be partly reabsorbed



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Cover dan daftar isi



The International Conference - Webinar On Mathematics, Natural Sciences and Learning in the New Normal Order (IWMANSELEN) 2020, OCTOBER, 15TH 2020

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ALL PARTICIPANTS OF THIS WEBINAR INTERNATIONAL CONFERENCE.

DISTINGUISHES LADIES AND GENTLEMEN,

FIRST OF ALL, THANKS AND PRAISED TO ALMIGHTY GOD FOR THE GOOD-HEALTH AND THE TIME, OPPORTUNITY GIVEN TO ALL OF US, TO CARRY OUT AND TO PARTICIPATE IN THIS WEBINAR WITH A TITLE: "INTERNATIONAL WEBINAR ON

MATHEMATICS, NATURAL SCIENCES, AND LEARNING IN THE NEW NORMAL ORDER".

ALL OF US, I SAY IT AS ACTIVISTS IN THE WORLD OF EDUCATION, NOT ONLY IN INDONESIA, BUT SPREAD GLOBALLY ALL OVER THE WORLD, ARE FACING TOGETHER THE **DISRUPTION** IN ALMOST ALL ASPECTS OF HUMAN BEINGS, INCLUDED IN THE FIELD OF EDUCATION, BECAUSE OF THE COVID-19 PANDEMIC. THE TIME IS MOVING VERY FAST AND MANY THINGS IN OUR LIFE AND JOB ARE CHANGING. THE CHALLENGE THAT WE ARE FACING NOW AND IN THE FUTURE WORLD IS THAT THE UNCERTAINTY. THERE ARE MANY KINDS OF THINGS IN OUR SOCIAL LIFE INCLUDING IN EDUCATION UNEXPECTEDLY OCCURRED; THERE ARE ACTIVITIES IN SCHOOL, CAMPUSES, EVEN IN OUR CULTURE HAVE CHANGED. FOR INSTANCE, A MOTHER POST THE STATUS ON HER FB: "DULU ANAK-ANAK KE SEKOLAH DILARANG BAWA HP, SEKARANG ANAK DILARANG KE SEKOLAH TAPI BELAJAR DI HP SAJA".

LADIES AND GENTLEMEN.

ALL OF THOSE DISRUPTIONS NOT ONLY BRINGS ABOUT TROUBLE OR DISORDER BUT ALSO CREATES "BREAKTHROUGHS" IN THE HUMANKIND AND CULTURE. WAYS IN DOING OUR TEACHING AND LEARNING, IN BUSINESSES, IN SOCIAL INTERACTION ACTIVITIES HAVE BEEN 'CHANGING'. WE NOW EXPERIENCING THE LIVE IN DIFFERENT BUT CHALLENGING WORLD, AND I GUESS, MAYBE THAT IT IS THE REASON WHY THIS INTERNATIONAL WEBINAR CONFERENCE CHOOSES THE THEME OF WEBINAR ON MATHEMATICS, NATURAL SCIENCES, AND LEARNING IN THE NEW NORMAL ORDER.

LEARNING, TEACHING, RESEARCHING IN NEW ORDER IS STILL NEW TO ALL OF US, THEREFORE, BY THIS WEBINAR, EXPECTATIONS ABOUT PROBLEMS ABOUT THE NEW NORMAL THINGS RELATE TO MATHEMATICS, NATURAL SCIENCES AND IN LEARNING COULD BE DISCUSSED AND HOPEFULLY WILL CREATES AND PRODUCE SOLUTIONS NEEDED.

LADIES AND GENTLEMEN,

THIS WEBINAR SUPPORTS THE ENHANCEMENT AND ACHIEVEMENT IN THE PUBLICATION OF SCIENTIFIC RESEARCH AND WORKS THAT IS NEEDED IN HIGHER EDUCATION, SINCE WE ALL KNOW THAT SCIENTIFIC PUBLICATION IS ONE OF

IMPORTANT INDICATOR IN ASSESSMENT OF THE QUALITY OF SERVICE OF A UNIVERSITY, ESPECIALLY IN THE ISSUES OF ACREDITATION AND CERTICATION OF THE INSTITUTION.

MORE OVER, AS THE RECTOR OF UNIVERSITAS NEGERI MANADO, I WOULD LIKE TO WELCOME TO ALL OF THE DISTINGUISED SPEAKERS AND INVITED SPEAKERS AND THANK YOU FOR THE CONTRIBUTION AND PARTICIPATION ON THE WEBINAR. ALSO, WELCOME AND THANKYOU VERY MUCH TO ALL OF YOU, LECTURERS RESEARCHER, TEACHERS, STUDENTS, ALL PARTICIPANTS. I APPRECIATE YOUR WORK, PROUD OF YOU ALL MEMBERS OF THE ORGANIZING COMMITTEE, THANKYOU.

MAY THIS WEBINAR BE SUCCESSFUL, ALL THE PRESENTATION WILL BROADEN AND DEEPEN OUR INSIGHTS TOWARD MATHS, SCIENCE AND LEARNING.

LAST BUT NOT LEAST.

BY SAYING THANKS TO ALMIGHTY GOD, I DECLARE THAT "THE INTERNATIONAL WEBINAR OF MATHEMATICS, NATURAL SCIECES AND LEARNING" IS OPEN.

ENJOY YOUR WEBINAR, THANK YOU ALL GOD BLESS, WASSALAM, OM SANTI SANTI OM.

CONTENT

OPENING SPEECH: RECTOR OF UNIVERSITAS NEGERI MANADO			
WELCOME SPEECH: CHAIRMAN OF MIPA LPTK ASSOCIATION OF INDONESIA iv			
CLOSING SPEECH OF IWMANSELEN 2020: DEAN OF FMIPA UNIMAvi			
CONTENTvii			
BIOLOGY			
[ABS-24] A Review on Arbuscular Mycorrhizal Fungal Communities in Response to Disturbance			
[ABS-40] THE POTENCY OF CURCUMIN AND THYROXINE HORMONE TO SUPPORT THE ANTIOXIDANT ACTIVITY DURING REPRODUCTION IN COMMON CARP (Cyprinus carpio)			
[ABS-53] Identification of Growth Hormone (GH) gene and Its Association with body weight and body size of Local Pigs from North Sulawesi			
[ABS-54] Identification by 16S Ribosomal RNA Gene Sequencing of Lactic Acid Bacteria Producing Antibacterial Agents From Langsat Fruit (Lansium domesticum) In Minahasa, North Sulawesi			
[ABS-55] Physico-Chemical Exploration of Yam Flour (Dioscorea Alata L.) as a Raw Material for Processed Cookies			
[ABS-60] ANALYSIS OF TOTAL CHLOROPHYLL OF WHEAT (TRITICUM AESTIVUM L.) SELAYAR VARIETY GIVEN INORGANIC MATTER N, P, AND K			
[ABS-65] THE EFFECTIVENESS OF THE APPLICATION OF THE GROUP INVESTIGATION MODEL (GI) PEER TUTORING METHODS USING E-LEARNING VIA ONLINE ONLINE AND OFFLINE IN IMPROVING THE RESULTS OF STUDYING SCIENCE AT THE VIIIA CLASS STUDENT HIGH SCHOOL AT EAST MONGONDOW NATIONAL JUNIOR HIGH SCHOOL			
[ABS-66] Project Bassed Learning (PjBL) study Based on realia media for student learning outcomes on the classification material of the living things in SMA Negeri 3 Tondano6			
[ABS-67] ORGANOLEPTIC PANELIST PERSEPTIONS on THE UTILISATION OF PANGIUM (Pangium edule Reinw) SEED EXTRACT as a POTENTIAL NATURAL PRESERVATIF on MUJAIR (Oreochromis mossambicus) during STORAGE			
[ABS-75] BIOCHEMICAL CHARACTERISTICS AND ANTIBIOTIC RESISTANCE OF BACTERIAL ISOLATE FROM Ctenocephalides felis			
[ABS-76] The use of local Minahasa isolate fruit flies as learning media for genetic concepts with students^ independent experimental approaches.			
CHEMISTRY10			
[ABS-1] Synthesis and characterization of Schiff's base-based chemosensor for Fluoride ions detection purposes			
[ABS-2] Development of Audio Visual Learning Media Integrating Character Education in Chemistry Learning to Facilitate Conceptual Change and Strengthening Students Character11			
[ABS-6] Antioxidant and Antibacterial Activity of Methanol extract of Brotowali (Tinospora crispa) stem Bark			

	[ABS-7] The Effect of the REACT CBA Strategy on the Material of Reaction Rate on Student Achievement at SMA Kristen 1 Tomohon
	[ABS-8] The influence of the science technology engineering and mathematics learning approach on attitudes and learning outcomes in eleventh grade students of SMA negeri 5 north halmahera for the material on the rate of reaction
	[ABS-9] Uric Acid levels on subchronic oral administration of Cassava leaf extract13
	[ABS-15] Production and Optimization Of Sea Salt Quality on the Coast of Tomini Bay13
	[ABS-44] Sponge (Porifera) and Sponge-Associated Bacteria as a Bio-Indicator of Heavy Metal Concentration in Teluk Manado
	[ABS-50] SUN PROTECTING FACTOR VALUE OF THE BERINGIN (Ficus benjamina) FRUITS EXTRACT14
	[ABS-64] LEARNING HIGH SCHOOL CHEMISTRY WITH V-MAKES TECHNIQUES (An Initial Study)
	[ABS-68] EFFECT ACTIVATION TIME ON CHEMICAL STRUCTURE AND QUALITY ACTIVATED CARBON FROM COCONUT SHELL16
	[ABS-72] FTIR, SEM and XRD Analysis of Activated Carbon from Sago Wastes using Acid Modification
C	OMPUTER SCIENCE
	[ABS-3] Increased Accuracy of Prediction Hepatitis Disease Using the Application of Principal Component Analysis on a Support Vector Machine
	[ABS-62] Application of Convolutional Neural Network for Classification of Skin Cancer Based on Image Data Using Google Colab
9	DUCATION
	[ABS-13] INCORPORATION OF ICT-BASED MULTIMEDIA IN MATHEMATICS LEARNING DURING COVID-19 PANDEMIC: ITS EFFECT ON STUDENTS LEARNING ACTIVITY, INTEREST, MOTIVATION, AND METACOGNITIVE KNOWLEDGE20
	[ABS-14] Management of Nature Based Physics Learning
	[ABS-17] Analysis of Student Error in Solving Story Problems in Linear Program Materials 22
	[ABS-36] MATHEMATICAL LITERACY PROBLEMS: USING THE CONTEXT OF TEMPANG COMMUNITY22
	[ABS-37] UTILIZING LOCAL INGENIOUSNESS CONTEXTS IN DEVELOPING ASSESSMENT INSTRUMENT FOR MEASURING MATHEMATICS HIGHER-ORDER- THINKING-SKILLS
	[ABS-38] Development of Integrated Science Learning Tools Based on Multiple Representations to Improve Scientific Literacy
	[ABS-42] Learning Based on Blended Learning and Discovery Learning Model in the Subject Learning and Instruction Biology
	[ABS-43] Mathematics Blended Learning Assessment Using Digital Project
	[ABS-46] A STUDY OF THE QUALITY OF NOVICE TEACHER-MADE-TEST OF SECONDARY SCHOOL MATHEMATICS26
	[ABS-47] THE GEOGRAPHY STUDENTS PERCEPTION ON THE USE OF GOOGLE CLASSROOM AS VIRTUAL CLASS

	[ABS-49] Mathematical problem solving ability based on self-efficacy in ICT-assisted preprospec learning models	28
	[ABS-52] THE INFLUENCE OF MINI RESEARCH ASSIGNMENT METHODS ON STUDENTS HIGH LEVEL THINKING ABILITY CLASS X ENVIRONMENTAL POLLUTION MATERIALS STATE HIGH SCHOOL 2 TONDANO	
	[ABS-56] DESCRIPTION AND ANALYSIS OF PHYSICS PROCESS ON ISLAND HILLY LAND FOR LEARNING THE AVAILABILITY OF CLEAN WATER FOR JUNIOR HIGH SCHOOL STUDENTS	29
	[ABS-57] Analysis of the thematic task of coastal damage in the mastery of physics concepts connected with the concept of biology	30
	[ABS-61] Analysis of Online Learning Models during the Covid Pandemic 19: Case Studies from the Perspective of Students in the Science Education Study Program	30
	[ABS-63] The Development of Geogebra-Assisted Mathematics Learning Media on Geometry Space Flat-Side of Cubes and Blocks	of 31
	[ABS-69] APPLICATION EFFECT OF LEARNING BASED LOCAL CULTURE TO LITERASI SAINS OF YUNIR HIGH SCHOOL STUDENTS I KABILA BONE MOLOTABU BONE BOLANGO OF REGENCY	
	[ABS-73] Biodiversity Literacy In Science Education	32
	[ABS-77] The Influence of Edmodo Application toward Students understanding of Slat Hydolysis Topic	33
	[ABS-78] Identification of Students^ Conceptual Understanding on Electrolyte and Non- Electrolyte Solution Material Using a Three Tier Multiple Choice Test	33
	[ABS-5] Numerical Solution for System with Atangana-Baleanu-Caputo Derivative: an Influen	za
	[ABS-16] Distance Weight of GWR-Kriging Model for Stunting Cases in East Java	34
	[ABS-31] DEVELOPMENT OF LEARNING DEVICES FOR PROBLEM SOLVING MODEL FOR ARYTHMETICS LINE MATERIALS FOR KAKAS STATE HIGH SCHOOLS	
	[ABS-41] Development of Mathematics Literacy Problems Based Bentenan's Textile for Junior High School Students	
	[ABS-18] TEACHING AND LEARNING OF ELECTRIC CHARGE WITH PIMCA MODEL	37
	[ABS-19] ANALYSIS OF STUDENT DIFFICULTIES IN LEARNING REFRACTION OF LIGHT	38
N	IATHEMATICS	39
	[ABS-34] Dirichlet Problem in Generalized Morrey Spaces	39
	[ABS-39] Modeling Soil Teksture Silt in DAS Kalikonto Using Geographically Weighted Regression	
	[ABS-59] Necessary and sufficient conditions for Stein-Weiss Operator on Orlicz spaces	40
P	HYSICS	41
	[ABS-21] Analysis of Daily Dynamics of Thermal Interaction of Temperature and Ocean Curre Flow in Seaweed Growth Areas	ent 41
	[ABS-22] PIMCA LEARNING MODELS TO IMPROVE STUDENT LEARNING	42

[ABS-23] TEACHING CONVEX LENS MATERIALS WITH A PIMCA MODEL: HOW DID IT GO?43
[ABS-25] The PIMCA model for learning the Doppler effect uses a multiple-choice assessment
[ABS-26] USE OF THE FOUR-TIER DIAGNOSTIC TEST FORMAT WITH PIMCA MODEL ON OPTICAL MICROSCOPE TOOLS44
[ABS-27] IMPLEMENTATION OF THE PIMCA MODEL TO LEARNING CONVEX MIRRORS
[ABS-28] STUDENT LEARNING DIFFICULTIES IN UNDERSTANDING THE LORENTZ FORCE
[ABS-29] PHYPHOX APPLICATION WITH PIMCA LEARNING MODEL47
[ABS-32] THE USE OF THE MR-SR BASED PIMCA LEARNING MODEL IN EYE AS OPTICAL TOOLS SUBJECT47
[ABS-35] Blue luminescence of indium doped ZnO thin films prepared by DC magnetron sputtering
[ABS-71] HEAT TRANSFER ANALYSIS ON THE TOOL OF HEAT EXCHANGER OF PLATE TYPE IN PLTP LAHENDONG UNIT 249
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)50
[ABS-10] DEVELOPMENT OF LEARNING DEVICES WITH A PROBLEM BASED MODEL USING PYTHAGORAS PMR THEOREM50
[ABS-11] DEVELOPMENT OF MATHEMATIC LEARNING DEVICES USING PROJECT BASED LEARNING ON A FLAT SIDE ROOM51
[ABS-12] DEVELOPMENT OF TWO VARIABLE LINEAR EQUATION SYSTEM LEARNING DEVELOPMENT WITH PROBLEM BASED LEARNING52
[ABS-33] SEISMICITY OF SUWAWA TIMUR AREA BASED ON ANALYSIS OF EARTHQUAKE THE DEPTH AND MAGNITUDE53
[ABS-45] ANALYSIS OF ECOTOURISM POTENTIALS OF BOTUTONUO BEACH IN BONE BOLANGO REGENCY GORONTALO PROVINCE54
[ABS-48] Assessment of the values of science, education, tourism and the risk degradation of geothermal areas to developing geotourism in the Limboto Lake Plain, Gorontalo
[ABS-51] Geological study of Pantai Indah for geotourism development in the Gorontalo area based on geological observation and assessment of science, education, tourism and the risk degradation
[ABS-58] Analysis of Fluid Characteristics and Estimation of Geothermal Reservoir Temperature in Kaleosan Area, North Minahasa Regency
[ABS-70] Surface And Subsurface Analysis Based on the Geological Structure and Geolistric Resistivity Data in Gorontalo Outer Ring Road (GORR), Huidu Utara
[ABS-74] Lithostratigraphy of sedimentary rocks in the Tudi area, Monano sub-district, North Gorontalo District, Gorontalo Province

[ABS-9] Uric Acid levels on subchronic oral administration of Cassava leaf extract

WH Nugrahaningsih, Ikhtiar Bangkit Wulandari, Noor Aini Habibah, Aditya Marianti

Universitas Negeri Semarang

Abstract

Cassava leaf one of herb in Indonesia needed the safety data to develop as herbal medicine. Cassava leaf contains carbohydrate, protein, flavonoid, triterpenoid, saponin, tannin, mineral, and vitamin C. The cassava leaf contained moderate purine potentially increasing the plasma uric acid. This study aims to analyze uric acid levels on plasma rat that given sub chronically cassava leaf extract. This research was an experimental posttest with control group design. The total of 36 adult rat was randomly divided into 4 groups. The experimental groups were treated Cassava leaf extract orally for 45 days. The doses were 80 mg/kg body weight (P1), 400 mg/kg body weight (P2) and 2000 mg/kg body weight. Peripheral blood was taken from orbital sinus in day 45, and was measured the uric acid level. The average of blood uric acid levels for all groups is K (1,2725 mg/dL), P1(2,1289 mg/dL), P2 (1,3756 mg/dL) dan P3 (1,4250 mg/dL). The Anova analyzed resulted that no difference uric acid level between control and experiment groups. We concluded that the sub chronic giving of cassava leaf extract of 80 mg/kg body weight, 400 mg/kg body weight and 2000 mg/kg body weight did not increase the uric acid levels on rat

Keywords: Cassava- absorbtion- Uric acid

[ABS-15] Production and Optimization Of Sea Salt Quality on the Coast of Tomini Bay

Astin Lukum, Erni Mohamad, Aura Dwi Kurnianda Tangahu, Sri Yana Ohi

Universitas Negeri Gorontalo

Abstract

Tomini Bay is a water area with an area of 59,500 km2. Especially for Gorontalo Province, it has a length of about 436.52 Km. Based on this data, the province of Gorontalo, especially the coast of Tomini Bay, has the potential to be the source of raw material for salt production. Generally, the salt production process goes through various stages of the processes, namely the first evaporation process, the second evaporation process, the concentration process, and the crystallization process. The objective of this research is to obtain pure salt that meets the Standards of SNI. The salt production method used are evaporation and purification with recrystallization techniques by physical means (using hot water) and chemical methods by the addition of chemicals Ca(OH)2, NaOH, and Na2CO3. The results of this study showed that the obtained salt has NaCl content of 97.04%, Ca 0.55%, and Mg 0.28%. The obtained salt does not meet the salt requirements for SNI standards because there is still a large amount of Ca (SNI=0.10) and Mg (SNI=0.06). However, it meets the type of salt group, namely in category 1 with the best quality that meets the requirements for industrial materials and for consumption.

Keywords: Salt, Re-crystallization, Optimization, Salt water



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: 11 April 2018 (berlaku 1 tahun setelah tanggal persetujuan)

menyatakan bahwa penelitian di atas telah memenuhi prinsip-prinsip yang dinyatakan dalam Standards and Operational Guidance for Ethics Review of Health-Related Research with Human Participants dari WHO 2011 dan International Ethical Guidelines for Health-related Research Involving Humans dari CIOMS dan WHO 2016. Oleh karena itu, penelitian di atas dapat dilaksanakan dengan selalu memperhatikan prinsip-prinsip tersebut.

Komisi Etik Penelitian Kesehatan berhak untuk memantau kegiatan penelitian tersebut.

Peneliti harus melampirkan informed consent yang telah disetujui dan ditandatangani oleh peserta penelitian dan saksi pada laporan penelitian.

Peneliti diwajibkan menyerahkan:

☐ Laporan kemajuan penelitian

☐ Laporan kejadian bahaya yang ditimbulkan

☑ Laporan akhir penelitian

Semarang, 11 April 2018

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Awarded to:

Dr. dr. WH Nugrahaningsih

For her/his involvement as **Presenter** at the International Webinar Of Mathematics, Natural Sciences, And Learning In The New Normal Order (IWMANSELEN) 2020 organized by

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