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ABSTRACT

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TABLE OF CONTENTS

International Conference on Biodiversity Society for Indonesian Biodiversity (SIB) Bogor, Indonesia, 29-30 September 2018

CODE	TITLE	AUTHOR(S)	PAGES
	Genetic diversity		
AO-01	Morphological and molecular study of Puntius cf. binotatus from Gunung Tujuh Lake, Sumatra	Dewi Imelda Roesma, Djong Hon Tjong, Wila Karlina, Dyta Rabbani Aidil	149
AO-02	West Sumatra local ducks as poultry genetic resources in Indonesia: A review	Rusfidra	149
AO-03	Historical biogeography and divergence time estimates of the Sulawesi Dwarf Buffalo, Anoa	Dwi Sendi Priyono, Dedy D. Solihin, Achmad Farajallah	149
AO-04	The genetic diversity of tuber crop Daluga (Cyrtosperma merkusii) using Sequence-Related Amplified Polymorphism (SRAP) in Siau, Sangihe and Talaud Islands, North Sulawesi, Indonesia	Ina Erlinawati, Abinawanto, Andi Salamah, Rugayah	150
AO-05	Genetic diversity and indirect selection of fine cacao (Theobroma cacao) based on bean color	Lukita Devy, Indah Anita-Sari, Agung Wahyu Susilo, Ade Wachjar, Sobir	150
AO-06	Analysis phytochemicals, anthocyanin, beta-carotene, and yield components on various genotypes okra (Abelmoschus esculentus)	Muharama Yora, Muhamad Syukur, Sobir	150
AO-07	Estimation of genetic parameters and gene action of Ve/Se and Hp/Se wheat population for segregant transgressive selection	Nurwanita Ekasari Putri, Yudiwanti Wahyu, Trikoesoemaningtyas	151
AO-08	The effect of polyethylene glycol (peg) on drought- resistant some durian accessions (<i>Durio zibethinus</i>) from Nibong, North Aceh, Indonesia	Rd. Selvy Handayani, Ismadi, M. Sayuti	151
AO-09	Folic acid content and fruit characteristics of five Indonesian Dessert Banana Cultivars	Rita Ningsih, Rita Megia	151

AO-10	Exploration of bidara laut (Strychnos lucida) mother tree in Gunung Tunak Nature Tourism Park, West Nusa Tenggara, Indonesia	Ali Setyayudi, Krisnawati, Ryke Nandini, Gipi Samawandana	152
AO-11	Sex sorting spermatozoa of Sumba Ongole Bulls by using snakehead fish (Channa striata) albumin extract	Tulus Maulana, Syahruddin Said, Raden Iis Arifiantini, Mohamad Agus Setiadi	152
AP-01	Long term germplasm storage of papaya (Carica papaya) seed by cryopreservation	Dini Hervani, Darda Efendi, M. Rahmad Suhartanto, Bambang S. Purwoko	153
AP-02	Genetic variability and selection criteria of quantitative traits of chili (Capsicum annuum)	Muhammad Ridha Alfarabi Istiqlal, Muhamad Syukur, Yudiwanti Wahyu	153
AP-03	Genetic diversity, heritability and correlation between the quantitative characters on 30 sweet potato germplasms in Politeknik Negeri Lampung, Indonesia	Ratna Dewi, Setyo Dwi Utomo, M. Kamal, Paul B.Timotiwu, Siti Nurdjanah	153
AP-04	Preference of <i>Bemisia tabaci</i> and <i>Aleurotrachelus</i> trachoides (Hemiptera: Aleyrodidae) on different host plants	Tengku Laila Kamaliah, Muhamad Syukur, Sobir, Awang Maharijaya, Purnama Hidayat	154
	Diversity of Species		
BO-01	The influence of predator presence on <i>Daphnia galeata</i> morphology: A preliminary study of <i>Daphnia</i> morphological change from Lake Konstanz, Germany	Pelita Octorina, Dietmar Straile	154
BO-02	Effectiveness of dosage mycorrhizal bio-fertilizer of Gigaspora sp. on growth and yield of some chili varieties in inceptisol Krueng Raya, Aceh Besar, Indonesia	Syafruddin, Syakur, Hasanuddin	154
BO-03	Inventory of echinoderms in Bungus Teluk Kabung, Padang, Indonesia	Ardi, Arbi Wiguna, Febrinal, Rian	155
		Putra, Fitra Arya Dwi Nugraha, Agatha Pratiwi, Decazkia Dwi Fendina, Ridwan Syarif, Gilang Leonardo Owhen Putra, Mallvino Kentino, Ferry Andista, Ramadhan	
BO-04	Abundance and distribution pattern of echinoderms in Sarangan Beach, Gunungkidul, Yogyakarta	Galang Riswi Dyatama, Bellia	155
BO-05		Alda A. Prasetya, Safira Rizki Ramadhanti, Septi Lutfiatun Nafi'ah, M. Irfan, Adinda Rizki	
- 00	Bamboo diversity of Sulawesi, Indonesia	Ramadhanti, Aprilia Rahmawati	155
BO-06	Diversity of J	Dita Ervianti, Elizabeth A. Widjaja, Agung Sedayu	100
	Diversity of decapod crustaceans on intertidal zone of Porok Beach in Gunungkidul, Yogyakarta, Indonesia	F. A. Nazara, I. Maulana, F. Fatihasari, I. Oktaviana, I. Auliya', I. Fajar, F. P. Sholiha, H. Kurnianto, R. Eprilurahman,	156

BO-07	The diversity of cultivated plant species and characteristics of forest farmer in Danau Tes Nature Reserve, Bengkulu, Indonesia	Gunggung Senoaji, Muhammad Fajrin Hidayat, Iskandar	156
BO-08	Diversity of cover crops and their function in Wonogiri Karst Area, Indonesia	Joko Ariyanto, Sri Widoretno, Alanindra Saputra	156
			1 1 1 1 1 1 1
BO-09	Plant diversity in Muna Island, Southeast Sulawesi, Indonesia	Julisasi Tri Hadiah	157
BO-10	Gall morphotypes on Eucalyptus urophylla in Mount	Lindung Tri Puspasari, Purnama	157
	Mutis Nature Reserve, East Nusa Tenggara, Indonesia	Hidayat, Damayanti Buchori, Rosichon Ubaidillah, Hermanu Triwidodo	24
BO-11	Soil organism diversity in post-coal mining area in East Kutai, East Kalimantan, Indonesia	Liris Lis Komara, Veronika Murtinah	157
BO-12	Bird diversity on Koto Kampar Hulu, Riau, Indonesia	M. Ichsan Fajri, Fazli Saldayu,	158
		Widya Ruchi, Sakinah Azhari, Adilla Syafitri, Dandi Alif Utama, Fanny Lestari, Ramadhan	
		Sumarmin, Indang Dewata	
BO-13	Biodiversity of mollusk in Krakal Beach, Gunungkidul, Yogyakarta, Indonesia	Pramesti Tunjung Sasmita, Malya Adzillina Silmi, Nadhifa Athaya	158
		Khairunnisa, Nila Qudsiyati, Dea Febiansi, Dhela Rositafandi, Muhammad Nashrurrokhman	
BO-14	Gastropod diversity in intertidal zone of Poganda Beach, Luk Panentang, Banggai Kepulauan, Central Sulawesi, Indonesia	Maulana Bilal Dimas Prabowo, Taufik Adhi Prasetya, Irkhamna Noviyani Khusna Millaty, Rizal	158
		Hermawan Setiyobudi, Assyafiya Salwa, Nadine Uliesther, Yahya Mustangin	
BO-15	Bird species of cement industry factory complex in Tarjun, Kalimantan Selatan, Indonesia	Maulana Khalid Riefani, Mochamad Arief Soendjoto, Andy M. Munir	159
BO-16	Rungan Landscape Biodiversity: involvement of local communities for conservation research	Nityasa Namaskari, Bernat Ripoll Capilla, Benjamin J.W. Buckley, Siti Maimunah, Armadiyanto, Frank F.J. Van Veen	159
BO-17	Isolation of secondary metabolite from <i>Trichoderma</i> spp. and its potential to suppress the growth of <i>Colletotrichum gloeosporoides</i> caused anthracnose disease on chili	Nurbailis, Akmal Djamaan, Haliatur Rahma, Yenny Liswarni	159
BO-18	Terrestrial cave ecology of predator and decomposer insects count using Generalized Linear Latent Variable Model	Rezzy Eko Caraka, Shamarina Shohaimi, Isma Dwi Kurniawan, Riki Herliansyah, Cahyo Rahmadi,	160
BO-19	Lichen diversity as indicators for monitoring ecosystem health in Rawa Danau Nature Reserve, Banten	Rida Oktorida Khastini, Indah Juwitasari, Yola Herysca, Siti Sulasanah	160

	Abundance of gastropods in Krakal Beach,	Rijal Romolo, Imelda Apraini	_
BO-20	Abundance of gastropods in Adonesia Gunungkidul, Yogyakarta, Indonesia	Simanjuntak, Anisya Chindyastuti,	l,
	Gunungkidul, Yogyakarta, Masa	Arisma Kusuma Dewi, Handayani	
		Bella Sasmita, Farnan Wali	
		Bachtier, Frida Prasetyo Utami	
	faching darms in	Galang Riswi Dyatama, Bellia	
BO-21	Abundance and distribution pattern of echinoderms in	Alda A. Prasetya, Safira Rizki	16
DO-21	Sarangan Beach, Gunungkidul, Yogyakarta, Indonesia	Ramadhanti, Septi Lutfiatun	
		Nation M. Information	
		Nafiah, M. Irfan, Adinda Rizki	
		Ramadhanti, Aprilia Rahmawati	
	Species diversity of butterflies at Cibodas Botanic	Susanti Murwitaningsih, Agus	
BO-22	Gardens in West Java, Indonesia	Pambudi Dharma, Maryanti	16
	Gardens in West Java, indonesia	Setyaningsih, Yati Nurlaeni	
BO-23	Species diversity of Odonata at Cibodas Botanic	Susanti Murwitaningsih, Agus	161
20 20	Gardens, West Java, Indonesia	Pambudi Dharma, Maryanti	10
		Setyaningsih, Yati Nurlaeni	
BO-24	Diversity and host preferences of ferns and fern-allies	Titien Ngatinem Praptosuwiryo,	162
	epiphytes on palm trees	Sumanto, Ria Cahyaningsih	
BO-25	Pitcher morphology and pitcher color distribution of	Tri Handayani	162
	Nepenthes mirabilis in Muara Badak, East Kalimantan,	* * * * * * * * * * * * * * * * * * *	
	Indonesia		
BO-26	Tourism potential of the birds and reptiles diversity for	Ufairah Hartanti, Mufti Petala	163
	the development of mangrove ecotourism in Blanakan	Patria, Suyud Warno Utomo	105
	Forest, Subang, West Java, Indonesia	r anna, sayaa wanno stomo	
BO-27	Bali cattle performance fattened in a traditional	** " ~	162
DO 27	Bali cattle performance fattened in a traditional manner in Oelatsala Village, Kupang District, Indonesia	Upik Syamsiar Rosnah, Y.U.L.	163
		Sobang, Marten Yunus	
BO-28	The Araceae at two protected forests in West Lampung	Yuzammi, Tri Handayani, Inggit	163
	District, Sumatra, Indonesia: diversity, conservation and	Puji Astuti	
	threats	- ajv 7 totati	
BO-29	Cattle urine as a low cost medium for accelerate growth,	7.10 ***	164
	bioliass productivity, and lipid production of	Zulfa Hidayati, Annisa Nur	
	Botryococcus braunii: Future energy	Arofah, And Jihan Fakhira	
BO-30			
DO-30	Isolation and identification lactic acid bacteria from	Zulianatul Hidayah, Kartiwan	164
	spontaneous sorghum fermentation		
BO-31	Tree species composition and structure of Prigen-Raden Soerio Forest Park on the part.		164
	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Rony Irawanto, Apriyono	
	East Java, Indonesia	Rahadiantoro, Deden Mudiana	
BP-01	Efforts to develop the potential as a		165
	Efforts to develop the potential of indigenous vegetables	Afrilia Tri Widyawati	100
BP-02	Notes of endemic species Sindora javanica in Java,		165
	Indonesia Indonesia	Apriyono Rahadiantoro, Deden	
DD 62	·	Mudiana	
BP-03	The abundance and diversity of Mollusca species in the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of Panance North Court of the coastal mangrove areas of the coastal mang		165
		Dewi Wahyuni K. Baderan,	
	Indonesia Indonesia	Marini Susanti Hamidun, Ramli Utina, Sukirman Rahim, Rifal Dali	
		Utina, Sukirman Rahim, Kilai Dan	_

BP-04	Diversity of orchid (Orchidaceae) in Bukit Barisan Selatan National Park, Lampung, Indonesia.	Esti Munawaroh, Yuzammi	166
BP-05	The role of Batam Botanic Gardens as a Plant Conservation Center for small islands plants and coastal in Indonesia	Hartutiningsih-M.Siregar, Yupi Isnaini	166
BP-06	Diversity of mosquito types in Central Java Province that can act as vector in various tropical diseases	Khariri	166
BP-07	Key species of wildlife as tourism attraction in Gorontalo Province, Indonesia	Meilinda Lestari Modjo, Marini Susanti Hamidun	167
BP-08	Biological aspect and fishing season of thresher sharks fish caught in Indian Ocean and landed in Cilacap, Indonesia	Priyo Suharsono Sulaiman, Mufti Petala Patria, Rauf Achmad Sue	167
BP-09	The potential of Suweg and its habitat in Gubug Payung, Temenggeng, Blora District, Indonesia	Syamsul Hidayat	167
BP-10	Identifying the turtles species traded at several pet shops in Jakarta, Indonesia	Wahyu Prihatini, Hardiyanti	168
BP-11	The composition of plant species living under the shade of the main constituent trees in Nantu-Boliyohuto Wildlife Reserve in Gorontalo, Indonesia	Marini Susanti Hamidun, Dewi Wahyuni K. Baderan, Meilinda Lestari Modjo, Ekasusilawaty J. Bait	168
	Diversity of Ecosystem		
CO-01	Community of predatory coccinellids in various agricultural ecosystems in West Sumatra	Yaherwandi, Hidrayani, Yunisman, Hasmiandy Hamid	168
CO-02	Ecology of Zanthoxylum acanthopodium: specific leaf area and habitat characteristics	Decky Indrawan Junaedi, Yati Nurlaeni	169
CO-03	Population of common palm civet (<i>Paradoxurus hermaphroditus</i> , Pallas 1777) at the coffee plantation: Case study coffee fields in Pulosari Village, Bandung, West Java, Indonesia	Susanti Withaningsih, Erri N. Megantara, Parikesit, Alfiana Devi	169
CO-04	Invasion of Quinine (Cinchona spp.) from South America to the montane forest of Java	Zaenal Mutaqien, Eizi Suzuki, Dian Rosleine, Yoshifumi Kudo	169
	Ethnobiology and Socioeconomics		
DO-01	The quantity of beach macro debris in different monsoon at Tunda Island, Indonesia	Adinda Maharani, Noir Primadona Purba, Ibnu Faizal, Mega Laksmini, M. Rudyansyah	170
DO-02	Leunca (Solanum nigrum): Ethnobotany of a minorindigenous vegetable in two villages in Upper Citarum, Bandung, West Java, Indonesia	Dede Mulyanto, Johan Iskandar, Oekan S. Abdoellah, Budiawati S. Iskandar, Selly Riawanti, Ruhyat Partasasmita	170

DO-03	Women and agriculture in forest: Case study in Palintang Hamlet, Cipanjalu Village, Bandung, West Java, Indonesia	Budiawati S. Iskandar, Johan Iskandar, Ruhyat Partasasmita, Rahman Latif Alfice	\
	sava, muonesia	Rahman Latif, Alfian	17
DO-04	Ethnobotany of bamboo and its utilization in Ciboboko Peoples, Mekarasih Village, Sumedang, West Java, Indonesia	Diana Budiyanti, Johan Iskandar, Ruhyat Partasasmita, Opan S. Suwartapraja	17
DO-05	The diversity of endemic animals as a potential for economic development based on local future support of community income in Mountain Arfak Natural Reserve, West Papua, Indonesia	Lukas Yowel Sonbait, Hotlan Manik, Hermanus Warmetan, Yustina Lina Dina Wambrauw, Ruhyat Partasasmita,	17)
DO-06	Traditional knowledge of the use of garden plants in Ciboboko Hamlet, Mekarasih Village, Sumedang, Indonesia	Fezih Fathimah Nisyapuri, Johan Iskandar, Ruhyat Partasasmita	172
DO-07	Using wildlife for local livelihood: Papuan experiences	Freddy Pattiselanno,	
DO-08	Biodiversity in posthumanism and social media era	Ikma Citra Ranteallo, Imanuella Romaputri Andilolo, Lala M	172 173
DO-09	Qualitative morphological diversity of female Pelung chickens in West Java, Indonesia	Kolopaking, Ervizal A.M. Zuhud Indrawati Y. Asmara, Dani Garnida, Wiwin Tanwiriah, Ruhyat Partasasmita	173
DO-10	Ethnobotany of tree ferns in Kampong Pasir Menyan, Sukamandi Village, Subang District West Java, Indonesia	Suryana, Johan Iskandar, Parikesit, Ruhyat Partasasmita	173
DO-11	Impact increase of input and output prices toward production of rice in Banten Province, Indonesia	Viktor Siagian	174
	Bioscience		
DP-01	Impact of the green revolution on the wet rice farming based on gender: A case study in Karangwangi Village, Cinjur, West Java, Indonesia	Ruhyat Partasasmita, Siti Nuraeni, Budiawati S. Iskandar, Johan Iskandar	174
DP-02	Fisher's knowledge of fish behavior around anchors FADs: Case of handline tuna fishery in Palabuhanratu, West Java, Indonesia	Ignatius Tri Hargiyatno, Suyud Warno Utomo, Rauf Achmad Sue	174
DP-03	Inventory of types of medicinal plants and how to use them in Atinggola, North Gorontalo, Indonesia	Novri Youla Kandowangko, Mukhlisulfatih Latief, Rampi	175
DP-04	Ethnobotany of banana plants (<i>Musa x paradisiaca</i>) Palintang Hamlet, Cipanjalu Village, Bandung, West Java, Indonesia	Yusuf Johan Iskandar, Mira Mubarokah, Joko Kusmoro, Ruhyat	175
DP-01	The feasibility and farmer perception of true seed shallot technology in Sigi District, Central Sulawesi,	Partasasmita Heni Sp Rahayu, Muchtar, Saidah	176

EO-01	The effect of rice straw mulch and cow urine on the growth, nitrogen uptake, yield, quality, and pest population density on sweet corn plant (Zea mays) saccharata	Darwin H. Pangaribuan, Setyo Widagdo, Agus Muhammad Hariri, Safrianirmasari Siregar, Muhammad Iben Sardio	176
EO-02	Impact analysis of peatland conversion into plantations in Bukit Batu, Riau on soil glucosidase activity and microbial biomass	Delita Zul, Nelvia, Nova Wahyu Pratiwi, Milda Noviyanti	176
EO-03	Response and potent bioherbicide of two sorghum varieties to NPK fertilizer	Puji Harsono, Nanik Setyowati, Prasetyo	177
EO-04	Preliminary study of Ocean Health Index (OHI) of Jakarta, Indonesia	Erdani Arya Guntama, Noir Primadona Purba, Widodo S. Pranowo, Yeni Mulyani, Indah Riyantini	177
EO-05	Condition of microplastic debris in Savu Sea, East Nusa Tenggara on both of Indonesia's seasons	Hazman Hiwari, Noir P. Purba, Yudi N. Ihsan, Lintang P.S Yuliadi, Putri G. Mulyani	177
EO-06	Various antioxidant assays of agarwood extracts (Gyrinops versteegii) from West Lombok, West Nusa Tenggara, Indonesia	Amalia Indah Prihantini, Kanti Dewi Rizqiani	178
EO-07	The ability of endophytic fungi based on IAA content to stimulate the growth of sengon tissue culture	Reine Suci Wulandari, Rosa Suryantini	178
EO-08	Total phenolic content and antioxidant capacity on various infusion herbal tea Moringa oleifera	Umi Marwati, Wibowo Mangunwardoyo, Liliek Nurhidayati, Christoper	178
EO-09	The hydroxyproline content on fish bone gelatin from Indonesian <i>Pangasius</i> catfish by enzymatic hydrolysis for producing of bioactive peptide	Yoni Atma, Hanifah Nuryani Lioe, Endang Prangdimurti, Hermawan Seftiono, Moh. Taufik, Dita Fitriani, Apon Zaenal Mustopa	179
EO-10	Diversity of pineapple leaf fiber utilization as fibre- based molding and its biodegradation to the wood-decay	Yuliati Indrayani, Dina Setyawati, Akio Inoue, Kenji Umemura, Tsuyoshi Yoshimura	179
EO-11	Morpho-agronomic characterization of induced autotetraploid pisang madu by chromosome doubling	Yuyu Suryasari Poerba, Diyah Martanti, Tri Handayani, Witjaksono	179
EP-01	Antioxidant activity of extract green algae silpau Dictyosphaeria versluysii	Endang Sunarwati Srimariana, Daniel A.N. Apituley	180
EP-02	Physical and chemical characteristics of effervescent powder drinks from <i>Channa micropeltes</i> of West Kalimantan, Indonesia	Evi Fitriyani, Ika Meidy Deviami, Nani Nuraenah	180
EP-03	Potential of catfish oil extract (<i>Pangasius</i> hypophthalmus) in well pain healing white rat	Hidayaturrahmah, Lia Aprilyana, Heri Budi Santoso	180
EP-04	Potential of exopolysaccharide from <i>Lactobacillus</i> plantarum as cholesterol lowering on the hypercholesterolemic rats (Sprague Dawley)	Kusmiati, Sarah Marissa, Erlindha Gangga, Fifi Afiati	181

XII	Characteristics of collagen nanoparticles from skin of	Nani Nur'aenah, Evi Fitriyani, Untung Trimo Laksono	181
EP-05	catfish (Clarias guriepinas)		
EP-06	The effect of plant spacing at the growth and yield of shallot from true shallot seed in Sigi District, Central Sulawesi, Indonesia	Saidah, Muchtar, Andi Nirma Wahyuni	181
EP-07	Growth and yield of two shallot varieties from True Shallot Seed (TSS) in Sigi District, Central Sulawesi, Indonesia	Saidah, Muchtar, Andi Nirma Wahyuni	182
EP-08	The effect of mocaf substitution and wheat flour as filler on organoleptic properties oyster mushroom nugget	Sri Lestari	182
EP-09	Nutritional component of Barbonymus balleroides-a wild freshwater fish from Indonesia	Syahfitri Anita, Haryono, Gema Wahyudewantoro	182
EP-10	Antibiotic-producing Actinomycetes isolated from Mangrove Forest of Torosiaje, Gorontalo, Indonesia	Yuliana Retnowati, Sukarti Moeljopawiro, Tjut Sugandawaty Djohan, Endang Sutariningsih Soetarto	183
	Keynote Speech		
OO-01	Molecular systematic studies for biodiversity conservation	Badrul Munir Md-Zain	183
OO-02	Biology and conservation of freshwater eels	Takaomi Arai	183

Note: A. Genetic Diversity, B. Diversity of Species, C. Diversity of Ecosystem, D. Ethnobiology and Socioeconomics, E. Bioscience (Life Science and Technology); O. Oral, P. Poster; AA. Keynote speech

Madu parthenocarpic diploid banana (Musa AA) were treated with oryzalin at a concentration of 60 µM for 7 days in a liquid MS basal medium with addition of 2 mg/L BA. Ploidy identification of induced Pisang Madu was conducted by using Flow-cytometer. Morpho-agronomic characterization was conducted at Cibinong Science Center for 2 cycles of banana reproduction. 52 characters of quantitative and qualitative of banana plants were recorded based on UPOV for Banana. Compared with the original diploids, the Pisang Madu autotetraploids showed increases in pseudostem height and diameter, fruit size, and bunch weight. The autotetraploid Pisang Madu was successfully used as 2n gamete donors in generating secondary triploid hybrids.

Autotetraploid, Musa, oryzalin, pisang madu

EP-01

Antioxidant activity of extract green algae silpau Dictyosphaeria versluysii

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Silpau is a green alga that is widely available in Southwest Maluku District, Indonesia live on coral reefs and are not classified as seasonal plants. Silpau has long been used by local people, generally in the form of processed vegetables or colo-colo (kudapan). Accept the nutritional value, comprehensive informations about silpau still much unknown. Therefore, the author would like to find out much more information about silpau especially its potential as an antioxidant. The method used in this research is explorative. The method used to test the activity of the antioxidant extracted from silpau by eliminating the of free radicals DPPH (1,1-diphenyl-2activity picrylhydrazyl). Phytochemical test of silpau showed that silpau contain terpenoid compounds. Results of testing the antioxidant activity of crude methanol extracted from silpau showed that silpau have antioxidant activity seems very weak because it has a very high IC50 value about 548.08 ppm.

Antioxidant activity, Dictyosphaeria versluysii, DPPH, IC50

EP-02

Physical and chemical characteristics of effervescent powder drinks from *Channa micropeltes* of West Kalimantan, Indonesia Evi Fitriyani, Ika Meidy Deviarni, Nani Nuraenah

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Channa micropeltes (Cuvier, 1983) is a type of fish that lives in West Kalimantan's freshwater. This fish is native to Asia or commonly known as snakehead because its head is similar to a snake's head. Results Previous research shows that the Channa micropeltes species have an animal protein source, one of which is albumin content which is almost the same as cork fish. Albumin extract from toman fish has not been produced much compared to cork fish extract. At present the toman fish albumin extract is still not widely sold in the market and the processing process is still very limited so it is necessary to use and further processing into effervescent beverage powder. The purpose of this study was the process of making effervescent granules with the addition of toman fish albumin and an analysis of the chemical characteristics of the effervescent granules produced which are expected to help hypoalbumin sufferers. The results of the analysis of the chemical characteristics of beverage powder included albumin levels in formula 1 about 57.05 mg/L, formula 2 about 34.05 mg/L, and formula 3 about 36.81 mg/L; protein levels in formula 1 were about 8.74%, formula 2 was about 9.33% and formula 3 was about 10.94; the water content is about 6.63%, formula 2 is about 5.97% and formula 3 is around 11.14%; ash content in formula 1 was about 23.84%. formula 2 was about 22.59% and formula 3 was about 27.86%; Sugar level in formula 1 is about 4.33%, formula 2 is about 5.26% and formula 3 is about 6.98%; total acid in formula 1 is about 0.36%, formula 2 is about 0.66% and formula 3 is about 1.07%. The results of physical analysis included lovibond color tests showing that beverage powder tends to have increasingly white and yellow colors; time is around 3-4 minutes; pH 7; Viscosity (cP) in formula 1 is about 31.2 cP, formula 2 is about 4.80 cP and formula 3 is about 31.2 cP; Total dissolved solids in formula 1 were about 344 mg/L, formula 2 was about 322 mg/L and formula 3 was about 309 mg/L.

Channa micropeltes, effervescent beverage powder, physical and chemical characteristics, West Kalimantan

EP-03

Potential of catfish oil extract (*Pangasius hypophthalmus*) in well pain healing white rat

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Catfish oil extract contains albumin and w-3 fatty acids which play a role in wound healing. The purpose of this study was to determine the potential of catfish oil extract (*Pangasius hypophthalmus* Sauvage, 1878) in healing white rat wounds on the area of the wound and the percentage of wound healing. Rats were grouped into 7

treatments, namely positive control with administration of betadine ointment, negative control was not given and 4 other treatments with administration of catfish oil extract (A, B, C, D), treatment E was given tween 20. White rats were injured in the area back with a length of 2 cm and a depth of 2 mm. Rat treatment is done for 7 days topically. The results of analysis in this study showed that catfish oil extract has the potential to heal the wounds of white rats in the presence of decreased wound area of about 0.62 mm-0.84 mm and the percentage of wound healing around 79.00-84.45%.

Albumin, catfish, wounds, omega 3

EP-04

Potential of exopolysaccharide from *Lactobacillus* plantarum as cholesterol lowering on the hypercholesterolemic rats (Sprague Dawley)

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Exopolysaccharide is a polysaccharide produced from one of Lactic Acid Bacteria Lactobacillus plantarum which gives beneficial impact on human health such as This study aim was cholesterol-lowering. cholesterol-lowering activity of the crude exopolysaccharide in vivo against the Sprague Dawley rats were induced by feeding high cholesterol. The study was divided into six groups: normal control, negative control, positive control of atorvastatin, crude exopolysaccharide test group at the doses of 20, 40, and 60 mg/BW. The parameters tested were total of cholesterol, triglycerides, HDL, and LDL in blood plasma by using spectrophotometer UV-Vis. The results showed that the crude exopolysaccharide 60 mg is an effective dose which can lower total plasma cholesterol as big as 21.66%, triglyceride levels 16,86%, HDL levels 10,89%, and LDL levels 42,46%. Based on these results concluded that the crude exopolysaccharide has activity as a cholesterol-lowering.

Lactobacillus plantarum, Sprague Dawley rats, cholesterol, exopolysaccharide,

EP-05

Characteristics of collagen nanoparticles from skin of catfish (*Clarias gariepinus*) with desolvation method

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Collagen is the active ingredients that are often used in cosmetics application, especially antiaging cosmetics with the function to increase skin moisture, prevent wrinkles, keep the skin from bad effects of radiation, and maintain elasticity. Animal skin has been developed as a source of raw material for producing collagen. However, studies about application of nanotechnology in collagen production processes are still very rare. The purpose of this research was to study the effect of type desolvating agent (acetone and ethanol) and desolvating agent/collagen solution ratio (1: 1; 1: 2; 1: 3) on the characteristics of collagen nanoparticles from skin of catfish (Clarias gariepinus). Collagen nanoparticles from the skin of catfish have been successfully produced by desolvation method with variation of type and ratio desolvation agent. Collagen nanoparticles from skin of catfish showed the average particle size of 110,98 nm-203,4 nm and the yield between 3,81-4,78%. The smaller particle size was produced by using ethanol as desolvating agent with ethanol/collagen solution ratio of 1:1. Fourier transform infrared (FTIR) spectra of all collagens nanoparticle were similar and suggests that collagen nanoparticles was characterized as Type I collagen with have a β -sheet structure.

Catfish skin, characteristics, collagen nanoparticles, desolvation methods

EP-06

The effect of plant spacing at the growth and yield of shallot from true shallot seed in Sigi District, Central Sulawesi, Indonesia

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Generally, shallots are cultivated using seed bulb (vegetatively). The problem is the cost of providing seed bulbs is quite high. One of the ways to save the usage of seed bulbs is by using seed (True Shallot Seed). An effort to improve the yield of shallots from the true shallot seed (TSS) is the use of the right and suitable spacing. The objectives of this research were to determine the effect of various plant spacing on the growth and yield of shallots from true shallot seed. This research was conducted in the farmer's land in Kalukubula Village, Sigi District, Central Sulawesi, Indonesia from December 2017 to March 2018. This research was designed using a Randomized Block Design non Factorial consisting of 3 treatments of spacing and repeated 10 times, so that the total experimental plot was 30 plots. The treatment consisted of JT1 = 10 cm x 10cm, JT2 = 8 cm x 10 cm, and JT3 = 6 cm x 10 cm. The observations included plant height/Length, number of leaves, number of bulbs per clump, weight of bulbs per clump, bulb weight, and bulb diameter. The results showed

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