

Journal of the Malaysian Society of Applied Biology

Cover : [Somatic embryos-derived cocoa plants growing in the field at MCB, Kota Samarahan, Sarawak](#) . Photo courtesy of Gibson Entuni.

Research Articles

***In vitro* Propagation of Selected Malaysia Cassava (*Manihot esculenta* Crantz) Varieties by Using Nodal Explants**

Huzaimah Mahdi and Rebicca Edward

| [Abstract](#) | [Full Text PDF](#) (51 KB)| pp. 01 |

Camera Trapping Wildlife on Mount Penrissen Area in Western Sarawak

Sally Soo Kaicheen and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (149 KB)| pp. 07 |

Phylogenetic Relationships of the Sarawak *Microhyla* (Amphibian: Anura: Microhylidae)

Ramlah Zainudin and Nooraina Atira Alaudin

| [Abstract](#) | [Full Text PDF](#) (189 KB)| pp. 15 |

The Distribution and Average Size of Granular Gland in Poisonous Rock Frog, *Odorrana hosii*

*Ahmad Hata Rasit, Nur Amirah Md Sungif, Ramlah Zainudin and Mohammad Zulkarnaen
Ahmad Narihan*

| [Abstract](#) | [Full Text PDF](#) (635 KB)| pp. 23 |

Phytoremediation of Ammoniacal Nitrogen in Wastewater Using *Eichhornia crassipes*: Tolerance Limit and pH Study

Winnie Ting Huong Tien, Ivy Ai Wei Tan, Shanti Faridah Salleh and Noraziah Abdul Wahab

| [Abstract](#) | [Full Text PDF](#) (241 KB)| pp. 29 |

Preliminary Analysis on the Hunting Activities in Selected Areas in Interior Sarawak

Melynda Cheok Ka Yi and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (723 KB)| pp. 37 |

Vegetative Propagation of Cacao (*Theobroma cacao* L.): Comparison of a Liquid Hormone Preparation Against a Commercial Rooting Hormone Powder

Rebecca Edward, Joel Michael Ponniah and Samuel Lihan

| [Abstract](#) | [Full Text PDF](#) (169 KB)| pp. 45 |

Histological Description of the Bornean Horned Frog *Megophrys nasuta* (Amphibia: Anura: Megophryidae) Skin Structure from Different Body Regions

Ramlah Zainudin, Elvy Quatrin Deka, Dayangku Norlida Awang Ojep, Lela Su'ut, Aida Shafreena Ahmad Puad, Mohd Azlan Jayasilan and Ahmad Hata Rasit

| [Abstract](#) | [Full Text PDF](#) (555 KB)| pp. 51 |

Bats Roost Site Preferences in Wind Cave Nature Reserve, Bau, Sarawak

Muhd Amsyari Morni, Faisal Ali Anwarali Khan, Qhairil Shyamri Rosli, Julius William Dee, Roberta Chaya Tawie Tingga and Mohd-Ridwan Abd Rahman

| [Abstract](#) | [Full Text PDF](#) (149 KB)| pp. 57 |

The Effectiveness of a Fabricated Bio-Filtration System in Treating the Domestic Greywater

Winnie Anak Renang, Nur Amalina Shairah Abdul Samat, Rubiyah Bains, Md Rezaur Rahman and Onni Suhaiza Selaman

| [Abstract](#) | [Full Text PDF](#) (510 KB)| pp. 65 |

Genetic Variation of the Bornean Fanged Frog, *Limnonectes kuhlii* Complex in Western Borneo (Amphibia: Anura: Dicroglossidae)

Ramlah Zainudin and Najmi Naim

| [Abstract](#) | [Full Text PDF](#) (150 KB)| pp. 73 |

Diagnostic Consideration in Cases of Pulmonary Embolism Mimicking Acute Coronary Syndrome: Is Electrocardiography a Friend or a Foe?

Keng Sheng Chew, Elise Chui King Wong, Nariman Singmamae, Aaron KH Lai and Seri Diana Mahmud Affandi

| [Abstract](#) | [Full Text PDF](#) (377 KB)| pp. 81 |

Maximising Production of Prebiotic Sugar (Cellobiose) from Sago Frond

DYG Salwani Awg Adeni, Muhammad Norhelmi Ahmad and Kopli Bujang

| [Abstract](#) | [Full Text PDF](#) (493 KB)| pp. 89 |

Field Performance of Selected Malaysian Cocoa Clones Regenerated through Somatic Embryogenesis Cultures

Gibson Entuni, Rebicca Edward, Hollena Nori and Ahmad Kamil Mohd. Jaafar

| [Abstract](#) | [Full Text PDF](#) (360 KB)| pp. 97 |

Removal of Congo Red Dye from Aqueous Solution Using Branches of *Ficus religiosa*

Syed Salman Shafqat, Maria Nosheen, Amir Azam Khan, Syed Rizwan Shafqat, Shahzad Murtaza, Muhammad Zubair and Muhammad Nadeem Zafar

| [Abstract](#) | [Full Text PDF](#) (253 KB)| pp. 103 |

The Density of Invasive Urban Birds in Selected Areas of Western Sarawak

Frances Hii Dai Sze, Nurul Ashikeen Ab Razak and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (219 KB)| pp. 109 |

Faunistic Composition and Ecological Distribution of Swallowtail Butterflies (Papilionidae: Lepidoptera) in Western Sarawak

Nur Azizuhamizah Idris, Fatimah Abang, Ratnawati Hazali and Nuha Loling Othman

| [Abstract](#) | [Full Text PDF](#) (221 KB)| pp. 115|

Elevational Distribution Patterns of Understorey Forest Bird in Western Sarawak, Malaysian Borneo

Hanis Damia Elyna Lit and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (221 KB)| pp. 121|

Assessment of Wild Saltwater Crocodile Population in Bako River, Western Sarawak, Malaysian Borneo for Potential Ecotourism Industry

Ruhana Hassan, Muhammad Amirul Arib Md Adzhar, Mohd Izwan Zulaini Abdul Gani and Rambli Ahmad

| [Abstract](#) | [Full Text PDF](#) (356 KB)| pp. 131|

Influences of Human Activities on Malay Civet's (*Viverra zibethica*) Occupancy in Sarawak

Thaqifah Syaza Jailan, Melynda Cheok Ka Yi, Sally Soo Kaicheen, Floriane Bouard and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (484 KB)| pp. 139|

Care-Giving Children having Down Syndrome – Life Impacts and Psycho-Social Experiences of Mothers

Chan Kim Geok

| [Abstract](#) | [Full Text PDF](#) (62 KB)| pp. 145|

Diversity and Functional Guild of Understorey Birds in Different Types of Forest in Ulu Baram, Sarawak

Attiqqah Fadzilah Sopian, Mohd Azlan Jayasilan, Khatijah Ismail, Pang Sing Tyan, Rahah Mohd Yakup, Mohd Hasri Al-Hafiz Haba, Isa Sait and Andrew Alek Tuen

| [Abstract](#) | [Full Text PDF](#) (135 KB)| pp. 153|

Calorie Intake and Factors Associated with Food Consumption

Mar Mar Lwin, Khin Cho Aung, Cliffton Akoi Anak and Khin Than Yee

| [Abstract](#) | [Full Text PDF](#) (60 KB)| pp. 159|

Maternal and Foetal Outcomes in Trial of Labour with a Previous Lower Segment Caesarean Section Scar at Sarawak General Hospital, 2010

Yee Yee Kyaing, Awi Anak Idi, Mardiana Binti Kipli, Haris Njoo Suharjono and Kyawswa Mya

| [Abstract](#) | [Full Text PDF](#) (68 KB)| pp. 167|

Validation of Endogenous Reference Genes for Relative Quantitation Studies of Gene Expression in Nasopharyngeal Carcinoma

Ashley Edward Roy Soosay, Ismail Maamar Makhzoum Alhwij, Parvathee Ponniah, Alan Soo-Beng Khoo and Chun-Yiing Wong

| [Abstract](#) | [Full Text PDF](#) (230 KB)| pp. 173|

Early Cardiovascular MRI Post Successful Reperfusion of Acute Myocardial Infarction: An Exploratory Study

Mohd Amin Nor Hanim, Said Asri, Keng Tat Koh, Yen Yee Oon, Fong Alan Yean Yip, Yee Ling Cham, Sian Kong Tan, Ning Zan Khiew, Kuan Leong Yew, Chi Yen Voon and Tiong Kiam Ong

| [Abstract](#) | [Full Text PDF](#) (57 KB)| pp. 181|

Experience of Mothers' Learning and Doing Infant Massage

Kim Geok Chan, Saloma Pawi, Shalin Lee, Emily Hii, Chor Yau Ooi, Zurraini Arabi and Helmy Hazmi

| [Abstract](#) | [Full Text PDF](#) (148 KB)| pp. 189|

Preliminary Phytochemical Screening of the Potential Medicinal Plants of the Melanau in Pulau Bruit, Sarawak, Malaysia

Siti Zaleha Binti Raduan, Rasidah Binti Abd Wahab, Dayang Hajyrayati Binti Awg Kassim, Alexander AK Chelum, Asrul Asshadi B Mohamad Morni and Muhammad Wahizul Haswan B Abdul Aziz

| [Abstract](#) | [Full Text PDF](#) (427 KB)| pp. 195|

Emotional Intelligence Level of Year One and Two Medical Students of University Malaysia Sarawak: Association with Demographic Data

Khin Than Yee, Myat San Yi, Khin Cho Aung, Mar Mar Lwin and Wai Wai Myint

| [Abstract](#) | [Full Text PDF](#) (50 KB)| pp. 203|

Improved Mechanical Properties of Silane Treated Jute/Polyethylene/Clay Nanocomposites

Md. Faruk Hossen, Sinin Hamdan and Md. Rezaur Rahman

| [Abstract](#) | [Full Text PDF](#) (482 KB)| pp. 209|

A Survey of Understory Birds at a Rice Field and a Mixed Dipterocarp Forest in Kuching, Sarawak

Karim Nurqamareena, Yee Ling Chong, Jayasilan Mohd-Azlan and Mohamad Fizl Sidq Ramji

| [Abstract](#) | [Full Text PDF](#) (217 KB)| pp. 217|

Effects of Land Use on Fish Assemblages in Inundated Area of Pleiran River and Danum River Sections of Murum Reservoir, Belaga, Sarawak

Angie Sapis, Gabriel Tonga Noweg, Lee Nyanti and Jongkar Grinang

| [Abstract](#) | [Full Text PDF](#) (197 KB)| pp. 223|

Roosting Behaviour and Site Mapping of Cave Dwelling Bats in Wind Cave Nature Reserve, Bau, Sarawak, Malaysian Borneo

Qhairil Shyamri Rosli, Faisal Ali Anwarali Khan, Muhd Amsyari Morni, Julius William Dee, Roberta Chaya Tawie Tingga and Mohd-Ridwan Abd Rahman

| [Abstract](#) | [Full Text PDF](#) (702 KB)| pp. 231|

Diet of Passerine Birds from Different Habitat Types in Sarawak, Borneo

Pang Sing Tyan, Attiqqah Fadziliah Sopian, Khatijah Ismail, Kok Cze Jhin and Andrew Alek Tuen

| [Abstract](#) | [Full Text PDF](#) (482 KB)| pp. 239|

Selective Differential Expression of the Ribosomal Protein Genes *eL14* and *uS19* in a Well-Differentiated Epithelial Cell Line of Nasopharyngeal Carcinoma

Edmund Ui-Hang Sim, Cassandra Sheau-Mei Chee, Lisha Vasudevan, Kher-Lee Ng and Stella Li-Li Chan

| [Abstract](#) | [Full Text PDF](#) (377 KB)| pp. 247|

Research Notes

Risk Factors of Preterm Delivery Among Mother with Preterm Contraction in Sarawak

Soe Lwin, Myat San Yi, Mardiana binti Kipli, Tin Moe Nwe and Cheah Whye Lian

| [Abstract](#) | [Full Text PDF](#) (52 KB)| pp. 255 |

The Advancement of Camera Trapping Technique in Understanding Wildlife Ecology in Sarawak

Marius Joscha Maiwald and Jayasilan Mohd-Azlan

| [Abstract](#) | [Full Text PDF](#) (421 KB)| pp. 261 |

Sustainable Community-Based Marine Debris Framework: Kampung Pulo Salak Experience

Ruhana Hassan, Shahren Ahmad Zaidi Adruce, Abang Mohd Heikal Abang Othman, Khairul Adha Abd Rahim and Roslianah Asdari

| [Abstract](#) | [Full Text PDF](#) (312 KB)| pp. 265 |

Prevalence of Cardiovascular Risk Factors and its Differences Between Genders in a Public University

Myat Su Bo, Cheah Whye Lian, Soe Lwin, Tin Moe Nwe, Than Than Win and Myint Aung

| [Abstract](#) | [Full Text PDF](#) (51 KB)| pp. 271 |