



Afiq Azman <mohdafiqazman96@gmail.com>

IRD 2021 : Your abstract was reviewed

1 message

IIUM Research Day <krd@iium.edu.my>
To: mohdafiqazman96@gmail.com

Tue, Oct 12, 2021 at 10:20 PM

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IIUM Research Day 2021

Abstract Submission

An International Online Event for Life Sciences

Welcome back Muhammad Afiq

View Abstract

Abstract Information

Title MODELLING APPROACH IN ASSESSING AND PREDICTING THE TRAJECTORY AND SPATIAL DISTRIBUTION OF FLOATING PLASTIC DEBRIS IN COASTAL WATER OF EAST COAST PENINSULAR

Description Marine debris issues have been one of the major problems that every nation is facing around the world. Several studies have reported the accumulation of marine debris both in Peninsular and East of Malaysia in terms of its distribution on different places, temporal and seasons effect and the major debris type found on Malaysian coastline. However, the study on route and trajectories of floating debris in Malaysia remains to be accomplished. A numerical approach could be a better view and improve our knowledge on the behaviour and fate of marine debris in our coastline. Particle tracking model was used to provide 1) the possible sources of floating marine debris, 2) the distribution of floating marine debris during different seasons, and 3) the trajectory of marine debris released from our coastline. We use the Lagrangian ocean analysis tool, OceanParcels software as our main framework to simulate and model the particle integrated with ocean circulation model from the GOFS 3.1, a reanalysis ocean model by Hybrid Coordinate Ocean Model (HYCOM) and Navy Coordinate Ocean Model (NCODA). Particle tracking model and limited in-situ observation data shown a good agreement in terms of validation and results. Results illustrate several possible hotspots of accumulation and sources of floating marine debris along East Coast of Peninsular Malaysia.

Keywords

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Event Information

Event IIUM Research Day 2021

Topic Life Sciences

Author Information

Name Muhammad Afiq Azman

Email mohdafiqazman96@gmail.com

Affiliation Postgraduate Student

Name Muhammad Zahir Ramli

Email mzbr@iium.edu.my

Affiliation Researcher

Name Goh Hooi-Bein

Email huiminn.gnp@gmail.com

Affiliation Coastal Engineer

Name Zuraini Zainol

Email zuraini.z@umt.edu.my

Affiliation Researcher

Presenter Information

Name Muhammad Afiq bin Azman

Email mohdafiqazman96@gmail.com

Presenter Preference Video

127 | INTRAPERITONEAL INJECTION AS AN EFFECTIVE AND AFFORDABLE METHOD OF DRUG DELIVERY INTO ADULT ZEBRAFISH.

Khairiah Razali^{1*}, Mohd Hamzah Mohd Nasir², Noratikah Othman³, Abd Almonem Doolaanea⁴, Jaya Kumar⁵, Wael M. Y. Mohamed^{1,6}

¹Department of Basic Medical Sciences, Kulliyah of Medicine, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

²Department of Biotechnology, Kulliyah of Sciences, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

³Department of Basic Medical Sciences, Kulliyah of Nursing, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

⁴Department of Pharmaceutical Technology, Kulliyah of Pharmacy, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

⁵Department of Physiology, Faculty of Medicine, UKM Medical Centre (UKMMC), Kuala Lumpur, Malaysia

⁶Clinical Pharmacology Department, Menoufia Medical School, Menoufia University, Menoufia, Egypt

128 | GAUSSIAN FUNCTION ON SOLITON SCATTERING OF GENERALIZED NONLINEAR SCHRÖDINGER EQUATION : VARIATIONAL ANALYSIS.

Nor Amirah Busul Aklan¹, Nor Nadira Amani Ramli², Bakhran Umarov³

^{1,2}Department of Computational & Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.

³Department of Physics, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.

129 | MODELLING APPROACH IN ASSESSING AND PREDICTING THE TRAJECTORY AND SPATIAL DISTRIBUTION OF FLOATING PLASTIC DEBRIS IN COASTAL WATER OF EAST COAST PENINSULAR .

M A Azman¹, M Z Ramli², H-B Goh³, Z Zainol⁴

¹Department of Marine Science, International Islamic University Malaysia, Malaysia

²Institute of Oceanography and Maritime Studies (INOCEM), International Islamic University Malaysia, Malaysia

³Global Water Consultants Sdn Bhd, Malaysia

⁴Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu, Malaysia

130 | THE ANTI-CANCER PROPERTIES OF *ARTOCARPUS HETEROPHYLLUS* (JACKFRUIT): A SYSTEMATIC REVIEW

Nurul Syamilah Abdul Razak, Muhamad Ashraf Rostam

Department of Nutrition Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Jalan Sultan



List of winners

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► GOLD AWARD

▲ SILVER AWARD

No	Name	Category	Title
1	Khairiah Razali	Basic Sciences	INTRAPERITONEAL INJECTION AS AN EFFECTIVE AND AFFORDABLE METHOD OF DRUG DELIVERY INTO ADULT ZEBRAFISH
2	Shah Farez Othman	Basic Sciences	COMPARISON BETWEEN OCT AND FUNDUS PHOTOGRAPHY ON CUP-TO-DISC RATIO AND ARTERIOLAR-TO-VENULAR RATIO MEASUREMENTS
3	Mohd Ariff Sharifudin	Basic Sciences	NON-VASCULARIZED AND VASCULARIZED ILIAC BONE GRAFTING FOR RECONSTRUCTION FOLLOWING CALCANEAL TUMOUR RESECTION
4	Muhammad Mazmirul Abd Rahman	Basic Sciences	SHORT-TERM ANALYSIS OF SHORELINE CHANGES DETECTION ALONG PAHANG COASTLINE, MALAYSIA: AN APPLICATION OF DIGITAL SHORELINE ANALYSIS SYSTEM (DSAS).
5	Khalid Jan Rezayee	Basic Sciences	EFFECTS OF VITAMIN A ON LIVER TRIGLYCERIDES LEVEL IN HIGH CHOLESTEROL DIET-INDUCED STEATOSIS RAT MODEL
6	Siti Aisyah Nadirah Ja'apar	Basic Sciences	IN VITRO CYTOTOXICITY ANALYSIS OF BIOCERAMIC ROOT CANAL SEALERS ON HUMAN GINGIVAL FIBROBLAST CELLS AND HUMAN OSTEOBLAST-LIKE CELLS.
7	Hidani Hasim	Basic Sciences	PRELIMINARY STUDY ON THE EFFECTS OF TUALANG HONEY AND ITS SILVER NANOPARTICLES ON KAINIC ACID MEDIATED HIPPOCAMPAL EXCITOTOXICITY AND MEMORY IMPAIRMENTS IN MALE RATS.
8	Nor Amirah Busul Aklan	Basic Sciences	GAUSSIAN FUNCTION ON SOLITON SCATTERING OF GENERALIZED NONLINEAR SCHRÖDINGER EQUATION : VARIATIONAL ANALYSIS
9	Muhammad Afiq Azman	Basic Sciences	MODELLING APPROACH IN ASSESSING AND PREDICTING THE TRAJECTORY AND SPATIAL DISTRIBUTION OF FLOATING PLASTIC DEBRIS IN COASTAL WATER OF EAST COAST PENINSULAR