

# LIST OF APPLICANTS

2019 – 28th International Conference on Research in Life-Sciences & Healthcare (ICRLSH), 30-31 December, Kuala Lumpur

30-31 December 2019

# **CONFERENCE VENUE**

The Regency Scholar's Hotel, Universiti Teknologi Malaysia (UTM),

## Kuala Lumpur, Malaysia

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#### **Table of Content:**

S. No.	Particulars	Page Numbers
1.	Preface	3
2.	Keynote Speaker	4-5
3.	List of Presenters	6-16
4.	List of Listeners	16
5.	Upcoming Conferences	16
	Constant of the second	

#### **Preface:**

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#### **KEYNOTE SPEAKER**



Dr. Abdulrasheed Olatunji Abdussalam Associate Professor, Education from Al Azhar University, Egypt Topic: The Problem of Healthcare in Nigeria and Its Implications On Education

Dr. Abdulrasheed Olatunji Abdussalam is a lecturer of Islamic University of Perlis, Malaysia. He holds a Doctor of Philosophy (PhD) and Master in curriculum education and instruction from Al Madinah International University, Malaysia. He had a diploma in computer studies from Cairo Centre for Electronics Studies and Mini Masters in Business Administration from Al-Naser Training Academy.

#### **KEYNOTE SPEAKER**



**Kristina Francis** 

Lecturer, Department of Language and Linguistics, Faculty of Arts & Social Science, Universiti Tunku Abdul Rahman, Kampar, Perak, Malaysia Topic: IR 4.0: Meeting Challenges in Educational Technology

Kristina Francis is a lecturer at Universiti Tunku Abdul Rahman (UTAR) and also certified trainer. Her core interests are in Educational Technology. She has an inborn and professional competency in Identifying Language Training Arenas, Designing Syllabus and Training Curriculum, Developing Teaching and Learning Methodologies, Designing Simple Web 2.0 technological tools for Effective Teaching and Learning, and Conducting E-Learning and Blended Learning workshops. Her expertise includes learning the techniques in creating or developing meaningful and useful E-Learning using Web 2.0 technological tools. Her contribution to her current job profile includes providing teaching support and guidance to students, evaluating courses when requested by the Faculty and also involving and collaborating actively in research.

University Portal: http://www.utar.edu.my/cv/index.jsp?cv=kristinaf&reqPageId=aboutMe Orcid ID: https://orcid.org/0000-0001-8139-9073

## **PRESENTERS**

Mukhtar Aliyu ERCICRLSH1929051	Extraction, Characterization, Fatty Acids Profile and Evaluation of Antioxidant Potential of Nymphaea Lotus and Nymphaea Pubescens Seed Oils
	Mukhtar Aliyu Department of Biochemistry & Molecular Biology, Federal University, Dutsin-ma, Katsina state-Nigeria Nura Lawal Department of Biochemistry & Molecular Biology, Federal University, Dutsin-ma, Katsina
	state-Nigeria
	Idris Aliyu Kankara Department of Science Laboratory Technology, Federal Polytechnic, Kauran-Namoda, Zamfara State-Nigeria
	Imam Abdullahi Abdulkadir
	Department of Biochemistry, Bayero University, Kano State-Nigeria
	Abstract
	The research work is aimed at evaluating nutritional qualities and economic significance of wild and underutilized plant seeds. Nymphaea lotus and Nymphaea pubescens seed oils were extracted using soxhlet extraction with hexane. The physicochemical properties (pH, density, acid value, iodine value, peroxide value and saponification value) showed that N. pubescens seed oil is of high quality. Gas chromatography coupled mass spectrometry analysis of the N. lotus seed oil showed that linoleic (13.01%), palmitoleic (4.46), arachidic (9.01%) and stearic (12.45%) acids were the major fatty acids whereas oleic (37.85), palmitic (23.57%) and stearic (5.71%) were the major fatty acids detected in N. pubescens seed oil. The order of the effectiveness of free radical scavenging and reducing capabilities of the oils were found to be N. lotus seed oil > ascorbic acid> palm oil > N. pubescens seed oil > groundnut oil. Compared with commonly consumed vegetable
	comparable to those of commonly consumed oils (palm oil and groundnut oil) and may therefore have great nutritional and industrial potentials whereas N. lotus seed oil is not suitable for human consumption due to its saturated nature but may find other applications in industries. Keywords: Nymphaea Lotus, Nymphaea Pubescens, Seed Oils, Physicochemical Properties, Fatty
	Acid
	Potential Therapeutic Effects of Curcuma longa extract in Patients with Osteoarthritis: A Randomized Controlled Trial
	Fransiscus Buwana
	Faculty of Medicine Duta Wacana Christian University/ Departement of Neurology Bethesda Hospital, Yogyakarta, Indonesia
	Rizaldy Taslim Pinzon
Fransiscus Buwana	Faculty of Medicine Duta Wacana Christian University/Departement of Neurology Bethesda Hospital, Yogyakarta, Indonesia
ERCICRLSH1929052	Abstract
	ADSTRACT Research Objectives: Osteoarthritis (OA) is the most common degenerative joint disorder in the elderly and a major public health problem in worldwide. Non-steroidal anti-inflammatory drug (NSAID) is a common medication given in OA patients, but its use was limited due to many side
	effects. Previous studies showed that Curcuma Longa extracts may exhibit benefic effects in the treatment of OA. To determine the efficacy and safety of Curcuma Longa extracts for reducting
	pain in patients with osteoarthritis. Methodology: A randomized controlled trial (RCT) in OA patients. Subjects were randomized to 3 different group. Crown J: CP extract (250 mg of
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Kuala Lumpur	Conference on Research in Life-Sciences & nearincare (ICKLSH), 50-51 December,

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	Curcuma longa and 150 mg Boswellia serrata) and NSAID (400 mg ibuprofen or 50 mg diclofenac sodium), group II: CB extract, group III: NSAID. Each subject would be followed up 3 times: baseline (visit I), second weeks (visit II), fourth weeks after baseline (visite III). The pain severity was measured using visual analogue scale (VAS). The analysis is intention to treat based. Findings: There were 105 subjects enrolled at the study. Subjects were dominated by female (80%) with mean aged 63 years. Ninety-five subjects (group I: 36; group II: 29, group III: 30) remained for complete analysis. Research Outcomes: Group I showed the greatest reduction of VAS score after the second and fourth weeks of treatment (more than 50%). Group III has the least VAS score reduction after fourth weeks (less than 30%) from baseline. The most frequent
	reducting pain in OA patients. Further clinical studies are warranted to determine the efficacy of
	curcumin and its combination products for OA patients.
	Keywords: Curcuma Longa, Boswellia Serrata, Osteoarthritis, Pain
Emmanuel Abayomi,	Principal Component Analysis of Body Weight and Morphometric Traits of New Zealand Pabbits Paised under Semi Arid Condition in Niceria
ERCICRLSH1929053	Rabbits Raised under Senii-Arid Condition in Nigeria
	Emmanuel Abayomi, ROTIMI
	Department of Animal Science, Faculty of Agriculture and Agricultural Technology, Federal
	University Dutsin-ma. Katsina state Nigeria
	ADSUFACE Rabbits production plays important role in increasing animal protein supply in Nigeria. Rabbit
	production provides a cheap, affordable and healthy source of meat. The growth of animals
	holy. Live weight and linear measurements are indicators of growth rate in rabbits and other
	farm animals. This study aimed to define the body dimensions of New zealand rabbits and also to
	investigate the morphometric traits variables that contribute to body conformation by the use of principal component analysis (PCA). Data were obtained from 80 New zealand rabbits (40 bucks and 40 does) raised in Livestock Teaching and Research Farm, Federal University Dutsinma. Data were taken on body weight (BWT), body length (BL), ear length (EL), tail length (TL), heart girth (HG) and abdominal circumference (AC). Data collected were subjected to multivariate analysis using SPSS 20.0 statistical package. The descriptive statistics showed that the mean BWT, BL, EL, TL, HG and AC were 0.91kg, 27.34cm, 10.24cm, 8.35cm, 19.55cm and 21.30cm
	respectively. Sex showed significant (P<0.05) effect on all the variables examined, with higher values recorded for does. The phenotypic correlation coefficient values (r) between the morphometric traits were all positive and ranged from $r = 0.406$ (between EL and BL) to $r = 0.909$ (between AC and HG). HG being the most correlated with BWT ( $r = 0.786$ ). The principal component analysis with variance maximizing orthogonal rotation was used to extract the
	explained about 80.42% of the total variance. PC1 accounted for 64.46% while PC2 accounted
	for 15.97% of the total variances. Three variables, representing body conformation, loaded
	highest in PC1. PC1 had the highest contribution (64.46%) to the total variance and it is regarded as body conformation traits. This component could be used as selection criteria for improving
	body weight of rabbits.
	Keywords: Conformation, Multicollinearity, Multivariate, Rabbits and Principal Component
Abubakar M	Analysis Prevalence of Cassava Mosaic Disease in Bauchi State, North Fastern Nigeria
ERCICRLSH1929056	Trevalence of Cassava Mosale Disease in Daucin State, North Eastern Nigeria
	Abubakar, M. Department of Plant Science and Biotechnology, Kebbi State University of Science and Technology, Aliero
	Mohammed, I.U. Department of Crop Science, Faculty of Agriculture Kebbi State University of Science and Technology, Aliero
	Keta, J.N.



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	varieties of soybeans (TGX 1835 and TGX 1987) to gamma rays at doses of 0 (control), 5, 10, 15 and 20 Gy. The parameters measured include establishment count, plant height, number of branches per plant, number of leaves per plant, number of pods per plant, days to 50% podding, 100 – seeds weight and total grain yielded. The results showed a symmetric reduction in plant establishment count in all the mutagenic treatments compared to the control (O Dose Gy). Comparison of the plant height showed that TGX 1987 and 1835 at 10 Gy produced the highest plant height at 8 and 10 WAS. While there were no significant differences in all the treatments at 6 WAS in chlorophyll content but there was significant difference at 10 WAS. The results showed that at 10 WAS TGX 1835 at 10 Gy produce highest branch numbers. The result also showed that there was a significant difference in number of leaves per plant at 10 WAS with highest leaves number (183.33 leaves). The data on the days to 50% flowering showed that TGX 1835 gives the shorter days (38.66a) to 50% flowering at 20 Gy. The highest number of pods per plant was observed in control treatments in all the varieties. The result showed that the highest total grain yield was observed in TGX 1835 at 20 Gy and the lowest yield was observed in TGX 1987 at 5Gy. It can be recommended from this work that 20 Gy and 15Gy could be used to create variability in soybeans. Keywords: Soybeans. Characterization. Gamma rays and Mutation
Sule Sahabi Manga	Assessment of Bacterial Profile from Hydrocarbon Contaminated Soil
ERCICRLSH1929059	Sede Schok: Manas
	Sule Sahabi Manga Department of Microbiology, Kebbi State University of Science and Technology, Aliero, Kebbi State, Nigeria Abdullahi Umar Gummi Department of Microbiology, Kebbi State University of Science and Technology, Aliero, Kebbi
Idris Zakoriura Kiri	State, Nigeria         Regina Doro Jabaka         Department of Microbiology, Kebbi State University of Science and Technology, Aliero, Kebbi State, Nigeria         Abstract         Some specie of bacteria are known to have the ability to degrade hydrocarbon compounds. Thus, the identification of such bacteria could be step forward in actualization of bioremediation of toxic compounds in our natural environment. This study analysis 20 samples collected from engine oil contaminated soil in Jega Mechanic workshop in Kebbi state of Nigeria. Total Heterotrophic Bacterial Count (THBC) was carried out and counts ranged from 4.5x104 to 6.2x 106cfu/g. Hydrocarbon utilizing bacterial count was also determined and counts ranged from 1.2x103 to 5.0x103cfu/g. The bacterial species identified includes Micrococcus spp, Pseudomonas aeruginosa, Flavobacterium, Alcaligenes, Bacillus spp and Staphylococcus aureus. The study therefore reveals that these indigenous bacterial populations could be capable of mineralizing these pollutants in the environment to safe and acceptable levels if properly harness. Key words: Hydrocarbon, Degrading, bacteria, Mineralizing, Bioremediation
Idris Zakariyya Kiri ERCICRLSH1929061	Effects of Single Super Phosphate (SSP) and Zinc Levels on Leaf Area (LA), Leaf Area Ratio (LAR) and Leaf Area Index (LAI) of Cowpea Varieties (Vignaunguiculata(L.)) in Bauchi, Nigeria Idris Zakariyya Kiri (PhD) Department of Biological Sciences, Sule Lamido University, Kafin Hausa, PMB 048 Kafin Hausa, Jigawa State, Nigeria
	Haruna Usman Baita Department of Biological Sciences, Sule Lamido University, Kafin Hausa, PMB 048 Kafin Hausa, Jigawa State, Nigeria
2019 – 28th International	ADSTRACT Effects of single super phosphate (SSP) and Zinc levels on leaf Area (LA), leaf area ratio (LAR) and leaf area index (LAI) of cowpea varieties (Vignaunguiculata(L.)) in Bauchi, Nigeria Conference on Research in Life-Sciences & Healthcare (ICRLSH), 30-31 December.

Kuala Lumpur The Regency Scholar's Hotel, Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia Rajeshwari Bangalore Sathyananda ERCICRLSH1929064 LIFE: International Journal of Health and Life-Sciences ISSN 2454-5872

Performance of PHC and Provider Wellbeing: A Quantitative Analysis of Centre, Patient and Provider Related Measures

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#### Abstract

Background: Primary healthcare comprises of health promotion and preventive health intervention at the population level which are rendered at dedicated centres called the Primary Healthcare Centres (PHC). The performance of these centres is vital for overall improvement in the general health of the population, specifically in developing countries. It is unknown whether performance indicators at centre level are also expressed by performance from a provider and patient perspective. The aim of this study is to explore patterns in the performance of PHCs with respect to (1) the availability of infrastructure and services; (2) providers' wellbeing; and (3) the patients' view.

Methodology: Three PHCs with high, medium and low health care delivery in the urban district of Bangalore, Karnataka, India, were selected. Classical indicators of the availability of infrastructure and services at PHCs (e.g. number of deliveries) were collected by observation and from secondary data respectively. Two questionnaire studies were done: on the wellbeing of the providers (n=36=11+13+12) (Quality of Life and Engagement), and the PHC performance from the patient perspective (n=301=100+100+101) with the newly developed tool 'Questionnaire for Patient's Perspective on Performance of Primary Healthcare Centres' (Q4PHC). The data from the centre, provider and patient level were analysed to identify patterns in performance indicators across the centres.

Results: The data showed that while a PHC with better infrastructure and utmost service delivery had providers with least wellbeing, the centre with least infrastructure and service delivery had better patient scores.

Conclusion: It can be concluded that the high PHC performance in terms of increased patient care services comes with a price of lower provider wellbeing, while patients are more satisfied in low performing centres. Though the increase in services/output is important for assessing the performance one should consider the sustainability of the providers for increased performance. While considering the centre, provider and patient indicators (input-infrastructure; process-patient's assessment and the provider wellbeing; output-services delivered) would lead to a holistic and comprehensive PHC performance assessment it does not facilitate judgement on which centre performance can be improved, which denotes further research should be conducted in the area.

Keywords: Primary Healthcare Centres, PHC Performance Assessment, Work Engagement, Quality of Life

Effects of Different Soils on Seedling Growth of Cassia Fistula L. under Natural Field Conditions

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Department of Biological Sciences, University of Sargodha, Sub-Campus Bhakkar, Bhakkar, Pakistan

Um e Habiba



#### ISSN 2454-5872 Effects of Honey Trigona Reduce Blood Glucose Levels in Mice Diabetes Mellitus **Tri Damayanty Syamsul** S3 Program in Medical Science Medical Faculty of Hasanuddin University, Makassar, Indonesia **Rosdiana** Natzir Tri Damayanty Syamsul Suryani As'ad ERCICRLSH1929069 Veni Hadju Jafriati Abstract Diabetes mellitus is a metabolic disease multisystem characterized by hyperglycemia due to abnormal insulin secretion, insulin action or both. Abnormalities in insulin secretion or action cause abnormalities in the metabolism of carbohydrates, fats and proteins. Type II DM is characterized by the occurrence of insulin resistance in body tissues. Trigona honey is rich in phenolic compounds because it is a food collected by bees from plants. The total phenolic content in honey is highly correlated with antioxidant activity. Objective To compare the effect of administration before and after trigona honey (Tetragonula sp) on blood glucose levels in diabetes mellitus mice. The study used a random sampling experimental design with 4 treatment groups, namely the negative control group, the positive control group with metformin at a dose of 0.13 ml / KgBB, the treatment group with trigona honey dose 0.2 ml / KgBB, and the treatment group with trigona honey dose 0 4 ml / kg for 21 days. In previous studies, mice were made Diabetes mellitus by induction of Streptozotocin 40 mg / KgBB intraperitoneally. After the male mice became Diabetes mellitus, blood glucose levels, body weight and plasma insulin levels were measured for all test groups. The results showed the administration of trigona honey can reduce blood sugar levels than before with a dose of 0.2 ml and 0.4 ml dose more significantly compared with the administration of metformin drugs. This is caused because honey contains high antioxidants and contains bioactive compounds such as alkaloids, flavonoids, triterpenoids, and phenol compounds. Keywords<mark>: Di</mark>abetes <mark>Mellitus, Trigona Honey</mark> (Tetrago<mark>nu</mark>la biroi), Blood Glucose Level The Effect of Syzygium Polyanthum (Wight) Extract in Cardiac Muscle and Kidney in Diabetic Mice Hotimah Masdan Salim Faculty of Medicine, University of Nahdlatul Ulama, Surabaya, Indonesia **David Sajid** Faculty of Medicine, University of Nahdlatul Ulama Surabaya **Cici Dita Virlliana** Hotimah Masdan Salim Faculty of Medicine, University of Nahdlatul Ulama Surabaya ERCICRLSH1929070 Abstract Background; Diabetes Mellitus (DM) is a metabolic disease characterized by elevated blood glucose levels above normal due to disruption of insulin secretion and insulin work in the body. The complication of diabetes mellitus is cardiomyopathy and diabetic nephropathy. Bay leaves (Syzigium polyanthum) is one of the plant that can lower blood glucose levels, this leaves contains antioxidant that can overcome hyperglycemia and hyperlipidemia conditions. Therefore, our aim was to investigate whether extract Syzygium polyanthum (Wight) Walp decreased the glucose levels to alterations inflammation in cardiac muscle and kidney of alloxan-induced diabetic mice. Methods and Results; We administrated extract Syzygium polyanthum (Wight) Walp for 2-weeks to alloxan-induced diabetic mice. Treatment with extract Syzygium polyanthum reduced blood glucose levels without affecting body weight in dose dependency (2,62mg, 5,24mg, and 7,86mg).

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2019 – 28th International Conference on Research in Life-Sciences & Healthcare (ICRLSH), 30-31 December, Kuala Lumpur

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Histologycal analysis showed that bay leaf significantly (p=0.05) decreased the map precentage of cardiac cell inflummation (P=0.05), and did ot show a significant difference in cardiac muscle diameter (p=0.05). Furthermore, the extract administration also improved the tubulus proximal dan tubulus distal tesions significantly.         Conclusion: Glacose lowering effects of extract Syzygium polyanthum (Wigh).       Conclusion: Glacose lowering effects of extract of Syzygium polyanthum (Wigh).         Amit K. Gupta       Regulation of RyeA/SraC Expression by Ribonuclease EN in Escherichia Coli         Amit K. Gupta       Tannay Dutta         ERCICRLSHIP22071       Regulation of RyeA/SraC Expression by Ribonuclease EN in Escherichia Coli         Amit K. Gupta       Tannay Dutta         RNA Biology Laboratory. Department of Chemistry. Indian Institute of Technology Delhi, Haux Khas, New Delhi-110016         Abstract       Small RNAs (sRNA) plays a pixotal role in controlling majority of the physiological functions in prokaryotes. Majority of the physiological processes in bacteria are modulated by these regulatory sRNAs primarily by base pairing with their target mRNAs, RyeA is a -270 nucleotide long sRNA, a part of which (-104 nucleotide) is complementary to RyeB. RyeA Apart from that ne additional information is kown and but the regulation of RyeA strapt from their stationary phase calco on our current observations. It was chicitated full filter and mark strapping the phase. Based on our currence observations. It was chicitated that RyeA expression is regulated at different graves without phases. Based on our current observations. It was chicitated that filter strapping the stationary phase leads to RyeA during exploration by acting as RNA rapp. Expl		LIFE: International Journal of Health and Life-Sciences ISSN 2454-5872
Amit K. Gupta ERCICRLSH1929071 Regulation of RycA/SraC Expression by Ribonuclease BN in Escherichia Coli Amit K. Gupta Tammay Dutta Tammay Dutta RNA Biology Laboratory, Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016 Abstraet Small RNAs (sRNA) plays a pivotal role in controlling majority of the physiological functions in prokaryotes. Majority of the physiological processes in bacteria are modulated by these regulatory sRNAs primarily by base pairing with their target mRNAs, RycA is a -270 nucleotide long sRNA, a part of which (-104 nucleotide) is complementary to RycB, RycA and RycB in the stationary phase constitute a toxin-antitoxin system and function antagonistically to each other where RycA normalizes accumulation of RycB (soxin by accursion is regulated at different growth phases. Based on our current observations, it was elucidated that RycA expression is regulated neitlene by stationary phase-eynetic e-factor nor by RNA chaperon Hfg. However, Ribonuclease BN was identified as an important regulator, which modulates the expression of RycA during exponential phase. As a consequence, isbability of RycA improves in the expression of RycA during exponential phase. As a consequence, isbability of RycA improves in the expression of RycA during exponential phase. As a consequence, isbability of RycA improves in the exponential phase upon deletion of the role of RycA in Ecoli. Reference: Amit K.Gupta, Namra Siddigui, Divya Yaday, Laxmi Arora and Tanmay Dutta. Siti Yusrima Nadihah Jamaludin ERCICRLSH1929055 Siti Yusrima Nadihah Jamaludin Faculty of Medicine, Universiti Sultan Zainal Abidin, Medical Campus, 20400 Kuala Terenggana, Terenggana, Malaysia Molto Hilmi Abangar, Alam Campus, 42300 Bandar Funcak Alam, Selangor, Malaysia Molto Nizam Zahary Faculty of Health Sciences, Universiti Teknologi MARA, Puncak Alam Campus, 21300 Kuala Terenggana, Terenggana, Malaysia Molto Hilimi Abu Bakar		Histologycal analysis showed that bay leaf significantly (p<0.05) decreased the mean precentage of cardiac cell inflammation (P<0.05), and did not show a significant difference in cardiac muscle diameter (p>0.05). Furthermore, the extract administration also improved the tubulus proximal dan tubulus distal lesions significantly. Conclusion; Glucose lowering effects of extract Syzygium polyanthum (Wight) were associated with the reduction of inflammation cells in cardiac muscle and improvement of glomerulus, tubulus distal and tubulus proximal lesions. These results may provide a possible mechanism for cardioprotective and kidney protective effects of extract of Syzygium polyanthum (Wight). Keyword: Diabetes Mellitus, Cardioprotective, Diabetic Nephropathy, Syzygium Polyanthum (Wight)
Chemistry, Indian Institute of Technology, Delhi, India         Image: Chemistry, Indian Institute of Technology, Delhi, India         RNA Biology Laboratory, Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016         Abstract         Small RNAs (sRNA) plays a pivotal role in controlling majority of the physiological functions in prokaryotes. Majority of the physiological processes in bacteria are modulated by these regulatory sRNAs primarily by base pairing with their target mRNAs. Ryck is a -270 nucleotite long sRNA, a part of which (-104 nucleotide) is complementary to RycB. RycA and RycB in the valitionary phase constitute a toxin-antitoxin system and function antagonistically to each other where RycA normalizes accumulation of RycB toxin by acting as RNA sponge. Apart from that no additional information is known about the regulation of RycA. expression in in bacteria. In this current study, we comprehensively investigate how RycA expression in in bacteria. In this regulated phases. Based on our current observations, it was elucidated that RycA expression is regulated at different growth phases. Based on our current observations, it was elucidated that RycA expression is regulated at different growth phases. Based on our current observations, it was elucidated that RycA expression is regulated at different growth phase. As a consequence, stability of RycA improves in the exponential phase upon deletion of rho gene. Conversely, abundance of RyeB in the stationary phase-leads to RycA degradition by acting a RNA trap. The regulatory which modulates the expression of RycA degradition of RycA Astra Campus, 20400 Kuala Tecrenganu, Terengganu, Malaysia         Siti Yusrina Nadihab       The Role of Transiert Receptor Toterntial Cation Channel subfamily V member 4 (TRPV4) in Colorecut Cancer	Amit K. Gupta ERCICRLSH1929071	Regulation of RyeA/SraC Expression by Ribonuclease BN in Escherichia Coli
Siti Yusrina Nadihah Jamaludin ERCICRLSH192055       The Role of Transet Receptor Potential Cation Channel subdamity Y member 4 (TRPV4) in Cation Cations (Subdata) Cations (Subdata) (Sub		Chemistry, Indian Institute of Technology, Delhi, India
Simali RNAs (sRNA) plays a pivotal role in controlling majority of the physiological functions in prokaryots. Majority of the physiological processes in bacteria are modulated by these regulatory sRNAs primarily by base pairing with their target mRNAs. RyeA is a -270 nucleotide long sRNA, a part of which (-104 nucleotide) is complementary to RyeB, RyeA and RyeB in the stationary phase constitute a toxin-antibixin system and function antagonistically to each other where RyeA normalizes accumulation of RyeB toxin by acting as RNA sponge. Apart from that no additional information is known about the regulation of RyeA expression in brechrin. In this current study, we comprehensively investigate how RyeA expression is regulated at different growth phases. Based on our current observations, it was elucidated that RyeA expression of RyeA dyrepsion of RyeA dyrepsion in Baches. As a consequence, stability of RyeA improves in the exponential phase. As a consequence, stability of RyeA improves in the exponential phase. As a consequence, stability of RyeA improves in the exponential phase. As a consequence, stability of RyeA improves in the exponential phase. As a consequence, stability of RyeA improves in the exponential phase upon deletion of the role of RyeA in Ecoli. Reference: Amit K.Gupta, Namra Siddiqui, Divya Yaday, Laxmi Arora and Tanmay Dutta. (2019). Regulation of RyeA/SraC expression in Bachene. Biophys. Rescommum Volume 516, Issue 3, 27 August 2019, Pages 661-665.   Siti Yusrina Nadihah Jamaludin The Role of Transient Receptor Potential Cation Channel subfamily V member 4 (TRPV4) in Colorect Lawer   Siti Yusrina Nadihah Jamaludin Faculty of Medicine, Universiti Sultan Zainal Abidin, Medical Campus, 20400 Kuala Terengganu, Terengganu, Malaysia   Narl Madihah Jamaludin Faculty of Medicine, Universiti Sultan Zainal Abidin, Medical Campus, 20400 Kuala Terengganu, Terengganu, Malaysia		Tanmay Dutta RNA Biology Laboratory, Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016
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	stretch. The shifting further supports that the fruit extract of T.chebula can reduce the nucleation
	rate of struvite crystals (Ammonium magnesium phosphate hexahydrate). Thus T.chebula fruits have beneficial effects for the treatment of kidney stone formation
	Keywords: Urolithiasis, Terminalia Chebula, Struvite Crystals, FTIR
Vilailak Klompong	Product Development of Crispy Dried Baegu Vegetable for Health
ERCICRLSH1929063	Viloilak Klompong
	Department of Food Science and Technology, Thaksin University, Thailand
	Abstract Baegu vegetable (Gnetum gnemon) is originated in Singapore and become a local southern
	vegetable of Thailand. Later, it is more popular for consumption. This research aims to develop
	crispy Baegu vegetable product by studying drying and frying conditions suitable for the product
	and also analyzing the quality of finished product. After study on the effect of maturity of leaves on the smelly smell by categorizing Baegu vegetables into 3 types, including old leaves $(L^* =$
	110.26, $a^* = -10.90$ , $b^* = 27.66$ ), medium leaves (L* = 115.26, $a^* = -5.93$ , $b^* = 36.33$ ). Young leaves
	$(L^* = 115.36, a^* = 3.36, b^* = 35.10)$ , the result showed that the medium leaves got the highest score
	study on the effect of drying temperature on sensory quality was conducted. The result exhibited
	that at 70 °C the product obtained have earned the highest hedonic scores in terms of texture,
	color, smell and overall liking ( $p<0.05$ ) from sensory evaluation. In addition, the temperature of frying at 60 °C was appropriated for production of crispy Bacqu vagetable when the sensory
	evaluation including texture, color, smell, crispness and overall liking was tested ( $p<0.05$ ). The
	hardness of the finished product was 301.79 g when measuring with texture analyser. Aw and
NP	yeasts and mold of finished product were 0.47 and 2.2 cfu/g, respectively. The crispy dried Baegu vegetable product also possessed antioxidant activity (DPPH radical scavenging activity) 55.06%.
	Therefore, the quality of crispy Baegu vegetable was designated by drying and frying conditions.
0.6	Additionally, the crispy dried Baegu vegetable product obtained possessed antioxidant activity
Kasturi Arumugam	Effects of Aquaculture Sludge Extracts on the Growth of Targeted Microalgae Species
ERCICRLSH1929073	
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	Abstract Natural growth promoting nutrients from aquaculture sludge wastes can be used to maximize the
	microalgae growth rather than as pollutants that may degrade the ecosystem. This study
	identified the influence of aquaculture sludge extract (SE) on four microalgae species. Conway or hold's basel media (BBM) was supplemented with SE collected from Sabels Person shring and
	(SB) and Kota Puteri fish pond (KP), and tested using a microplate-incubation technique. Five
	different extraction methods were carried out for both SE collected such as 105 °C, 105 °C twice,
	121 °C, 121 °C twice and 24-hour natural extraction. Microalgae culture in the microplates containing control (media) and enriched (media $\pm$ SF) samples were incubated for 0-days at 25
2019 – 28th International	Conference on Research in Life-Sciences & Healthcare (ICRLSH), 30-31 December.

°C with light intensity of 33.75  $\mu$ mol photons m-2 s-1 at 12 hours' light and dark cycle. The total dissolved nitrogen (TDN) and total dissolved phosphorus (TDP) in KP SE were 44.0 – 82.0 mg L-1 and 0.96 – 8.60 mg L-1 where it was higher compared to SB SE. The growth of Nannochloropsis ocenica, Chlorella vulgaris, Neochloris conjuncta and Nephroclamys subsolitaria in 5 extraction methods of SB did not show any significant differences (p > 0.05) between the extraction methods and control. However, in KP, N. ocenica shows significant differences (p < 0.05) between control and 121 °C twice; and N. subsolitaria also show significant differences (p < 0.05) between control and all 5 extraction methods. The specific growth rate (SGR) in exponential phase of C. vulgaris and N. conjuncta were higher in KP SE as compared to the rest. In SE, media + KP SE influences the microalgae more than control and with SB SE. This study shows that media + KP SE was the best sludge treatment for all microalgae tested due to the higher concentration of organic matter content in KP SE.

Keywords: Sludge Extracts, Extraction Methods, N. Ocenica, C. Vulgaris, N. Conjuncta, N. Subsolitaria

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