

SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT (SSTM) SCMS Campus, Prathap Nagar, Muttom, Aluva, COCHIN- 683 106. KERALA

CRITERIA 3 RESEARCH, INNOVATIONS AND EXTENSION

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

2017-2018

SI. No.	Title of the book/chapters published	Name of the teacher
	Sociogenomic variations of four populations of south India	Dr. Swapna Merlin
1.	with reference to butyrylcholinesterase activity	David
	Influence of heavy metal pollution on the antioxidant enzyme	Asha Raj, M.L.
	activity in Anabas testudineus collected from Periyar river at	Joseph
	ernakulam district and the recovery responses in pollution free	
2.	water	
1	Fun is the Future a collection of compelling gamification	Manu Melwin Joy
3.	success stories	
4.	Mainstreaming Biodiversity for Sustainable Development	Mohankumar Chinnamma,
5,	Organizational behavior - A study on the impact of high commitment work systems organizational citizenship behavior	
6.	A study on the impact of high commitment work systems	Manu Melwin Joy
7.	Analysis of trends of banking in Nifty Bank index using ROC and ros	VS BINU
8.	A study on key financial performance	Dr Vinosi Peter



Swapna Merlin David- Sociogenomic variations of four populations of south India with reference to butyrylcholinesterase activity.(ISBN 81-86366-93-98)

25th Terela Science Congress 2017

B2-13

SOCIOGENOMIC VARIATIONS OF FOUR POPULATIONS OF SOUTH INDIA WITH REFERENCE TO BUTYRYLCHOLINESTERASE ACTIVITY

Swanna Merlin David 2, S. Lalitha 3, R. Bosputhy and C. Mohankumar

Department of Biotechoology, Bharachiar University, Coimbutore, Tamil Nadii: Molecular Biology Division, 5CMS School of Technology and Management, Cechia, Kerala Scient Ston Cell Biology Lab, Rajis Garathi Centre for Biotechnology, Trinandous, Kerala

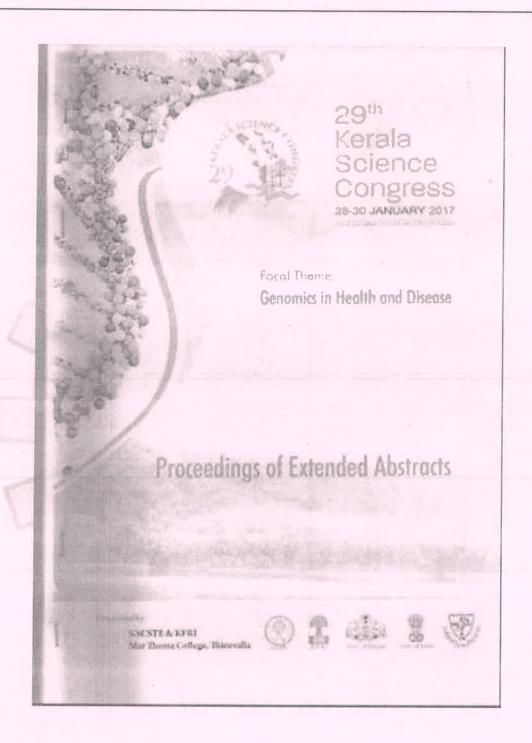
Sorrectortion.

Butyrylcholicenterate (BChd), R.G. J. S.E.S. enzyme was known for a century but its Bulcal Instruct becomes evident only after the World War II. The enzyme is of pharmacological as indepical importance, as it hydrolytes estimate their and according protective inhibitors. Also, it is implicated in the membridism of local insanflictics such as distance processes and in the hydrolysis of chart-acting months relevant necessitylchicking and invacamen. The enzyme is also involved in several homan pathophysiological conditions such is cancers, bepatic disorders, accronal disorders etc. and hance inted at a diagnostic market missin, hedividuals experiencing prolonged apnex after a normal door of any of the extermetaining drugs are suspected with genetic variants of BChE. In rural of such cases, several sarunts with abnormal Dunf, powers and lowered extern) were exident in different propositions, in so Indian origin ethnic exemunity called Vysya, such a DCMF variant with a result mutation (T920C) in exon2 of BCHE gens, altering the arrive acid lession to proline at the perition (LMOP) of BChF engine was identified with neither protein nor engine activity in must. Genetyping analysis thowed that T920C mutant affeld of BCHI, gene has high frequency strong the Vysya population of India. Hand on this scenario, the size of this study was to from the dutelliation of fit is different populations of South India Deposition on their iskund am fernional background, we have agreeted three different populations named Counties Flamil Nadas, Michaltar (Tamet Nada) and Nair (Kensta) and compared with Vynya (Andhra) and the same of



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Asha Raj, M.L. Joseph- Influence of heavy metal pollution on the antioxidant enzyme activity in Anabas testudineus collected from Periyar river at ernakulam district and the recovery responses in pollution free (ISBN 81-86366-93-98)





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09-32

INFLUENCE OF HEAVY METAL POLLUTION ON THE ANTIOXIDANT ENZYME ACTIVITY IN ANABAS TESTUDINEUS COLLECTED FROM PERIVAR RIVER AT ERNAKULAM DISTRICT AND THE RECOVERY RESPONSES IN POLLUTION FREE WATER.

Asha Rej KR and Joseph M.L. Department of Zoology, St. Albert's College, Ernakularu, Kochi, Kerala, India.

Extended abstract

Perivate is the carter of beoming city of Kochi, one of the most urbanized and industrial region of Kernia, it receives both urban and industrial waste in an alumning rate. Henry metal (lend, nickel, zinc, amenic and cadmium) pollution status in water, rediment and the arresponding bioaccumulation in biomass of Arashur restrictions from two different stations of arriver at Ernakulara district (Station I- Elitor Industrial area, Station II- Inturbanan, and ultim) during three seasons (Premomoun, Momeon and Postmonason) of two year prior (2012- 2014) was analysed. The antioxidant enzyme activity (Viz., Catalane (CAT), Sportstoc districtions (SOD) and Obstantions peroxidate (GPs.)) in alver, galls and muscle was not reflected. The recovery responses were studied in fishes kept in aquaria maintained at attracted laboratory conditions for 10 days.

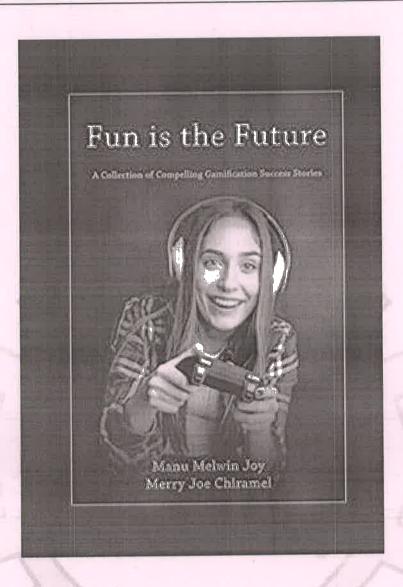
A staggast water body free from urban and industrial influence at Cherchala, Aliappearina therefore was selected as reference station. The samples for the heavy metal analysis were processed according to the method suggested by APHA (1995) and analysed using the industrials Coupled Plasma Atomic Emission Spectroscope in Sophisticated Test and Instrumentation Centre. Cochin University of Science and Fechnology, Kechi, Kerala. The inthondant engage activity like CAT, SOO and GPa in the regard were analysed by the method signested by Siona (1972); Das et al (2000), Romack (1973) respectively.

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Manu Melwin Joy- Fun is the Future a collection of compelling gamification success stories (ISBN 978-1-61813-874-3)





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Mohankumar Chinnamma, Anisha Shashidharan and Salini Bhasker-Molecular Detection of Vechur cow, the conserved breed of Bos indicus from Kerala (ISBN No:978-81-934231-1-0)





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lymii	CONTENTS	W. 12
	MAINSTREAMING BIODIVERSITY IN AGRICULTUR	
X	Characterization of general part of small cardamon (Clenters) caralitation are Matern) for marphological, yield and discusses R. Senalul Kannar, Sharon Arayand (1) Box, and S. S. Arkagansta.	35.
2	Registered groupdosm of Western Charles at a residence of the segment station, the issue initiates K. for opin folio, M. Lafra, M. Abdul Nizas, E. E. Esag, and J. Charles	1
3	Molecular detection of Veclsus cow, the conserval based of the makers from Kerala S. Anisha, Salint Bhasker and C. Mohankumar	¥,F
4	A comparative study of the diversity and abundance of the systems in 3 different survey locations in Kole wetlands selected according to the difference in the use of chemicals and farming practices Rain. S	21
5	Earthworm resources in relation to habitate and soil factors of Kollam district, Kerala, India. A tropical busined busine G. Achothan Nair T. G. Vijayamohanan and Andop Vesselbertan	10
6	On-farm conservation of bitter-less gourds in Kenala home steads. Joseph John, K. M. Latha, M. Abdul Nazar and R. Asukan Sare	(K ^a)
7	Challenges and strategies for conservation of Wayanad divari- cattle of Kerala: An introductory study with Desi cattle farmers Muhammed Asif, M and Gayathri, S. L.	55
8	Performance of watermelon accessions for yield and quality under south Kerala condition S. K. Nisha and I. Sreelathakumary	63
9	Effect of fungicides and bio control agents on the phylioplane microbial population of bell pepper (Capsician annuium L.) under protected cultivation. Pawar D., Kurian, P. S. and Cheryan, A.	69
10	Variation of nutritional traits and seed protein profile of the F1 hybrids of wild and cultivar of Momordica charantia in comparison with the parental lines. Hascenta Rai, N and Suhara Beevy, S	
11	Emiry farmers' perception and adaptation to climate change; a case attudy of Wayamad district of Kerala Mahazamed Asif, M and Gayathri, S. L.	8



Showfe

MOLECULAR DETECTION OF VECHUR COW, THE CONSERVED BREED OF BOS INDICUS FROM KERALA

5. Anisha", Selimi Bhasker and C. Mohankumar

Department of Plant Science, St. Albert's College, Brasinium. PIN expose

Molecular Biology Division, SCAS Increase of Bondence in Biologic Brasinion

Research & Development, Cockin, PIN 602033

* Email: satisfus pollutogenesis com

Cattle are an important part of the socio-agricultural system in India. At present Indiapossessesthelargest cattle population in the world with Oregonered and generalized Vechus cone is the only one from Kerala (NRAGR Accession No. DODIA_CATTLE_0900_ VECHUR 03030). Identification of breeds is based on conventional methods since molecular markers are not popular in India. The correct identification of the animal is of prime importance for conservation. Among the numerous proteins found in milk, Lactoferrin (Lf) is a unique whey protein owing to its multidimensional the apendic and nutritional properties. In the case of Vechus cost, the Luciofernin gene (BLIV) has already been amplified, clossed, sequenced and regimered in NCBL Based on the SNPs. and amino acid variations in BLfV, an attempt was made towards doing a restriction. enzymic analysis for determining the recognition sites in BLIV with respect to the Li of other cross breeds (Box amount a Box indicas, Bl ffiel). It was observed that the SNO at position 526, involving a change from T to C modifies the recognition site for PvuII present in the BLEEn sample. The Li game was amplified from the respective clones (BLEV-JP926526 & BLiffei-FI589071) and purified. The gene was digested with Pwall restriction. engine and the gel profiles compared. Comparison of the restriction profiles confirmed that the entry has only two cutting sites in BLIV but three in BLISti. The consistent result from dufferent samples highlights the specificity of the entrare for detecting Vechur come exclusively. Hence, this can be used as a molecular marker for identification of the

Keywords: Indigenous breeds, Conservation, Vechur cows

INTRODUCTION

Cardic colleguially termed account form an important part of the socio-agriculture system in India. Come occupy 37% of the entire livestock population of the country. At present india possesses the targest cuttle population in the world and is the largest producer of milk. (146.3) million metric towner. (USDA). The cardie socialn of India is composed of valuable adaptives breeds both descript and some descript), several indices a target cross breeds and lew targets breeds well adapted to the Indian climatic conditions. Considerable variations observed in the climatic conditions of India. This has led to the levelopment of various breeds in domestic animals including cathe. As per the National

Management and Budgerstry for Southernoon Development



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Manu Melwin Joy

Book/ Chapter/ : Organizational behavior - A study on the impact of high commitment work systems organizational citizenship

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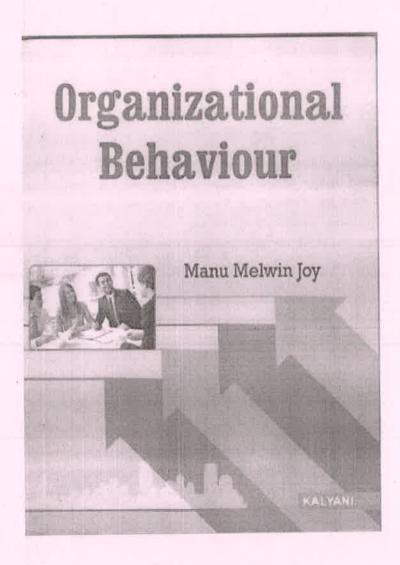
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: ISBN978-93-272-7053-2

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(For MBA students of Abdel Kalam Technical University, Kerala)

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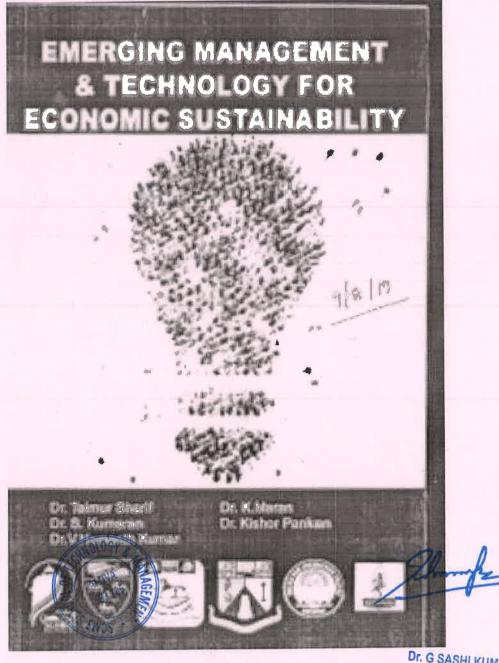
systems organizational citizenship behavior

ISBN No.

: 978-93-5228-83

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: Anuragam Found ation, Chennai





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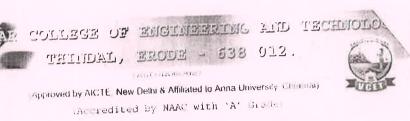
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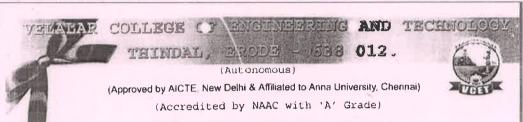
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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

2018-2019

Sl. No.	Title of the book/chapters published	Name of the teacher
	Expression of TGF beta 1gene in Human	Divyaa Sreekumar
	Embryonic Kidney (HEK) 293 cell lines by the	
1.	effect of HALE	
	Quality of Management Education and its Impact	George Mathew
	on Skill development: A study of Alumni of	
2.	Management Institutes in Kerala State	
3	SUSTANANCE OF LARGE OUT REACH	R Rupa
4.	digital payement in India	R Rupa
	Are our elder digitally literate? Astudy to understan	Praveena K
5.	d the internet usage of elders	

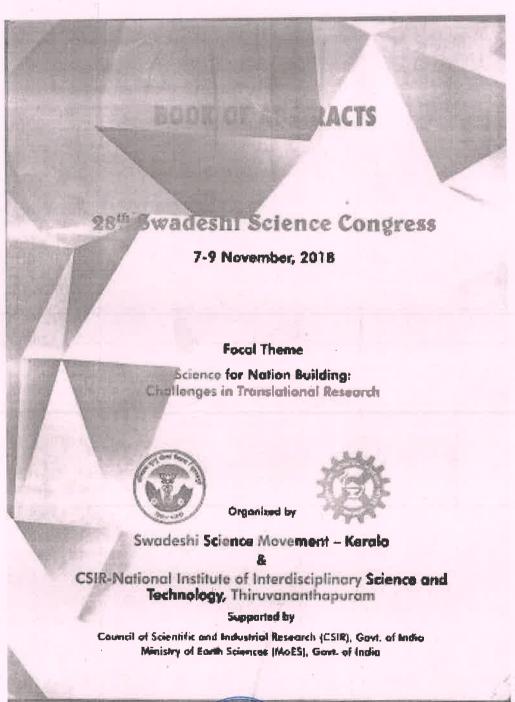
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Divyaa Sreekumar: Expression of TGF beta 1 gene in Human Embryonic Kidney(HEK) 293 cell lines by the effect of HALE, 28th Swadeshi Science Congress





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Science for Nation Building: Challenges in Translational Research

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28th Soudashi Science Comment 17-9 November, 2014

Book of Abstracts

an untreated control. The bands indicated that MEAA treated cells at 50 pg/ml and 100 pg/ml concentrations sublished DNA fragmentation which points towards the apoptosis-inducing property of MEAA GC/MS analysis of MEAA supposted that the extract was primarily characterized by the presence of physic. Phthalic acid di (2-propylpentyl) ester and Phthalic acid octyl 2-propylpentyl ester, which are compounds having anticancer potential. The study thus identifies A. custum as a plant having the potential to be developed as an anti-cancer pharmaceutical.

HS -12

Expression of TGF 81 gene in human embryonic kidney 293 cell lines by the effect of Hemigraphia alternata leaf extract

Divyaa Sreekumar, Salini Bhasker, Mohankumar C. and Benuka Devi P.

SCMS Institute of Bioscience and Biotechnology Research & Development, Seath Kalamassery, Crehin - 682 033

> Biotechnology Division, Anna University Regional Center, Combatone - 642 004

mohankumar@acmagroup.org

Despite the chemical and brochemical analysis of the therapeutic properties of harbo, the molecular evidence for detecting the mode of action of natural drugs has been a nevol trend of research today. Hemigraphic afternata, a tropical borb of Acauthaceae family has gazned sufficient therapeutic attention in tolklore medicines as a potent physo-medicine for wound healing. Wound healing is a complex and protracted process of tissue report and remodeling. Each phase of ropair requires presents of certain growth factors, cytokines and immune cells to secolurate healing process. Transforming Growth Factor Bota 1 (PGF 81) is one such growth Sector which plays an effective role in wound healing. In the present study, up attempt was made to rowall the malecular mechanism of the wound bestling effect of H. ofternata leaf extract (HALR) fractions separated by silien-based cultumn chromatography. Nine fractions were collected and each fraction was treated on in pitro accused. wound model rell line cultures of Human Embryonic Kidney (HEK) 293 rells for determining wound absure rate at an interval of 24 hours. It was obvious from the data that the Fructions 8 and 9 showed higher wound closury. The

Science for Nation Building: Challenges in Translational Bensarch

109



George Mathew: Quality of Management Education and its Impact on Skill development: A study of Alumni of Management Institutes in Kerala State

Quality of Management Education and its Impact on Skill Development: A Study of Alumni of Management Institutes in Kerala State

GEORGE K.MATHEW



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CONTENTS

S.NO	TITLE	PAGE NO
CHAPTER I	INTRODUCTION	1
CHAPTER II	REVIEW OF LITERATURE	13
CHAPTER III	THEORETICAL FRAMEWORK AND RESEARCH METHODOLOGY	56
CHAPTER IV	ANALYSIS AND DISCUSSIONS	86
CHAPTER V	SUMMARY OF FINDINGS, CONCLUSIONS AND RECOMMENDATIONS	129
	BIBLIOGRAPHY	137



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Dr. George K Mathew is presently working as Associate Professor (Marketing) with SCMS School of Technology and Management, Kochi. Dr. Mathew holds a Ph.D. in Management from the Bharathiar University as well as a Post Graduate Diploma in Rural Management (PGDRM) from the Institute of Rural Management Anand (IRMA). At SCMS he teaches various subjects viz. Product and Brand Management, Consumer Behavior, Services Marketing and Business Ethics & Corporate Governance.

Prior to academics, Dr. Mathew worked with FMCG and Pharmaceutical industry in the functional area of Sales and Marketing for more than 25 years. During this stint with the National Dairy Development Board (NDDB) he undertook a host of assignments, in various capacities as a marketing consultant, manager, trainer and coach for the FMCG (dairy and edible oil) brands viz. Dhara, Sudha, Saras, Verka, Nandini, Suhana, Kiran and Sulabh. Subsequently he also worked for the prestigious brands 'AMUL' (Dairy) and 'SUGUNA' (Poultry) in the respective Companies. Prior to Joining SCMS group, Dr. Mathew also had a stint as the Managing Director of the Kerala State Drugs and Pharmaceuticals Ltd., a Public Sector Undertaking in Kerala and significantly contributed to its turnaround efforts.

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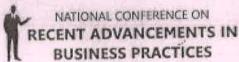


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Dr.P.R.Muthuswams

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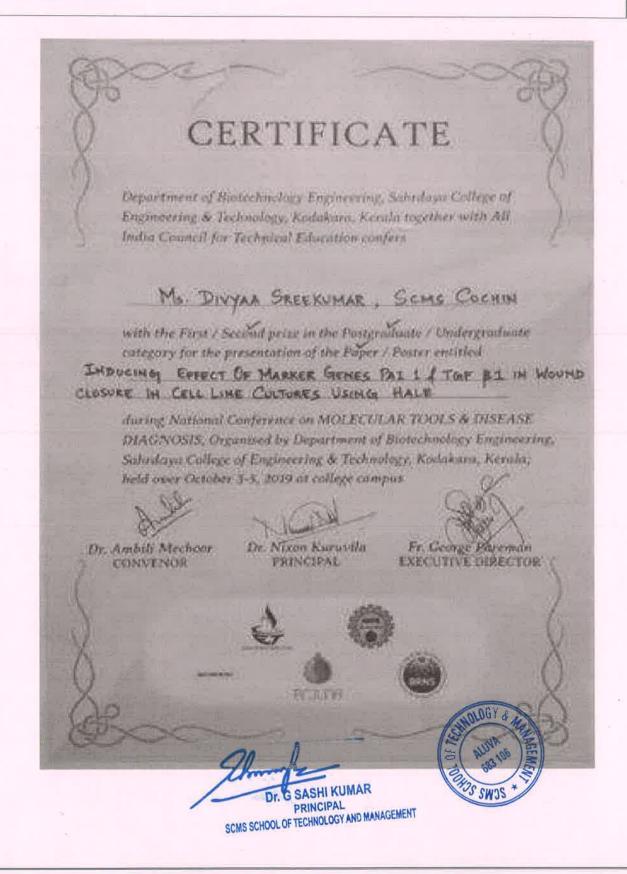
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Divyaa Sreekumar: Inducing Effect of Marker Genes PAI 1 and TGF \(\beta \)1 inWound Closure in Cell line cultures using Hemigraphisalternata leaf extract (HALE)



3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

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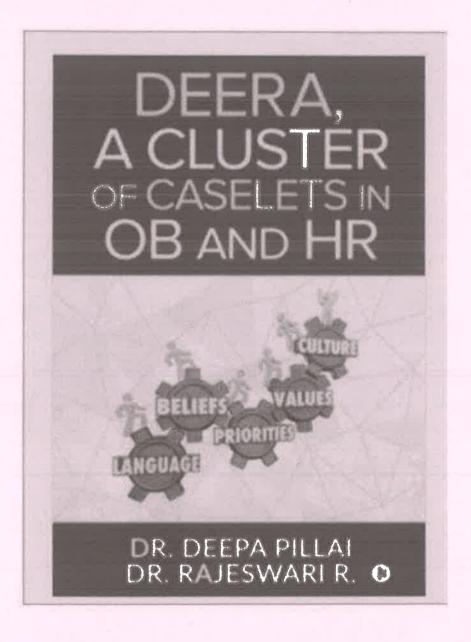
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1,	Inducing Effect of Marker Genes PAI 1 and TGF β1 in Wound Closure in Cell line cultures using Hemigraphis alternata leaf extract (HALE)	Divyaa Sreekumar
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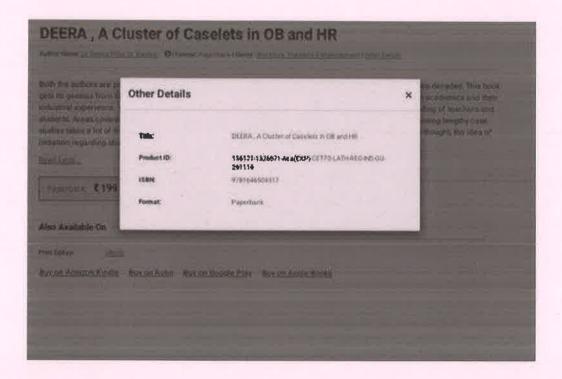
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Dr. G SASHI KUMAR

PRINCIPAL SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT

COLLABORATIVE DESTINATION MARKETING THROUGH TRADE SHOWS - A STUDY OF KERALA TRAVEL MART

Dr. Shobha Menon Dr. Manoj Edward



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SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT



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CONTENTS

5.NO	TITLE	PAGE NO
CHAPTER I	INTRODUCTION	1
CHAPTER II	REVIEW OF LITERATURE	7
CRAPTER III	KERALA TRAVEL MART	43
CHAPTER IV	RESEARCH METHODOLOGY	88
CHAPTER V	THE PROCESS OF COLLABORATIVE MARKETING OF A DESTINATION THROUGH A TRADE SHOW	20
CHAPTER T	MOTIVATION AND EVALUATION OF FERFORMANCE OF EXHIBITORS AND VIBITORS	96
CHAPTER TO	META INFERENCES AND PURDINGS	128
CHAPTER VIII	DOSCUSSION, IMPLICATIONS AND CONCLUSION	143
	PEPERENCES	150

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er of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

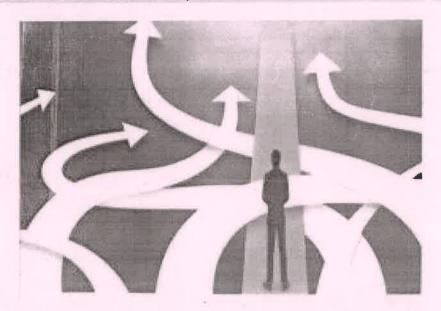
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1,	Trends (Co-authored a chapter in the book)	
	'The Role of PAI 1 gene in wound closure of scratch wound	DIVYAA SREEKUMAR
	models under the treatment of Hemigraphis alternata leaf	
2.	extract (HALE)'.	
1	1/30	
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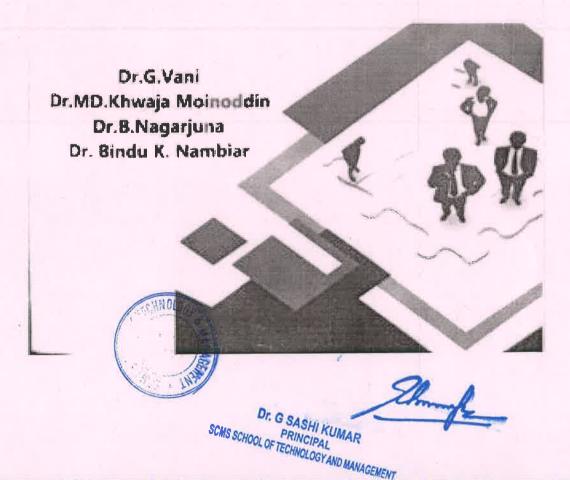
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CONTENTS :

SNO	TITLE	PAGE
í	THE ROLE OF NEFC'S IN THE INDIAN ECONOMY Dr. Jakku Srikanth	01
2	ROLE OF JUDICIARY IN EMPOWERING WOMEN IN INDIA Dr. Mohammad Khaja Matnoddin	07
3	AN ANALYSIS OF MEDICAL TOURISM WITH REFERENCE TO INDIAN SCENARIO	11
4	A STUDY ON SERVICE QUALITY DIMENSIONS AMONG THE ORGANIZED RETAIL STORES WITH REFERENCE TO SELECTED CITIES OF TAMIL NADU.	15
	Dr. A. Flora Noyal, A. Pouline Juliet, G. Jacquiine Adaikalam	
8	A STUDY ON INDIAN INSURANCE INDUSTRY OVERVIEW & MARKET DEVELOPMENT ANALYSIS.	18
	M. Harisha, Dr S. Rukkumani	
6	GREEN MARKETING AND ITS IMPACT ON CONSUMER BUYING BEHAVIOR	22
	J.Belskrishnan, M.P.Prathiba, S.Anandaraj	
7	CYBER CRIMES AMONG THE FINANCIAL INSTITUTIONS: AN OVERVIEW	28
1	Dr N.Ramesh Kumar, Dr.K.Sravan Kumar	
8	CORPORATE GOVERNANCE IN FAMILY CONTROLLED BUSINESS AND THE NEED FOR FORENSIC ACCOUNTING	32
	Rajashile Sen	
9	CORONOVIRUS ITS CURRENT & POTENTIAL IMPACT ON THE FINANCIAL SECTOR	39
	Dr. R. Lavanya Kumari,	
	Dr. J. Venkatesh	
10	BIG DATA ANALYTICS IN FINANCIAL REPORTING AND AUDITING- A STUDY	43
	DR. Mohammad Khaja Moinoddin	
11	A STUDY ON FDI IN HEALTH CARE SECTOR IN INDIA 8. Sridhar Reddy	47
10		52
12	THE IMPACT OF DATA COLLECTION ON THE FASTAG SATISFACTION LEVELS OF CUSTOMERS	



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SCINS SCHOOL OF TECHNOLOGY AND NAMAGEMENT

25	DEBT MANAGEMENT PRACTICE AMONG LOW INCOME HOUSEHOLDS IN COIMBATORE CITY	137
	Dr. J. Thuravin Mary Gloria, Mrs. Dr.P.Shantha	
27	ECONOMIC NOTIONS ON COVID-19: SLOW DOWN TO MAKE BETTER FUTURE	143
	Dr. Manish Dudlüch, Dinesh Sharma, Robert Mwilings	
28	EMOTIONAL INTELLIGENCE: KEY TO BUSINESS SUCCESS	147
	Sujeta Privembada Dash AN ANALYSIS OF TRENDS IN TELECOM SECTOR IN INDIA	156
29	Mrs. Kokila N N	,
30	EVOLUTION OF E-COMMERCE IN EMERGING MARKETS - A CASE STUDY OF INDIA	161
	Harish B	
31	WOMEN EMPOWERMENT THROUGH MICRO FINANCE - AS AN INSTRUMENT FOR POVERTY ALLEVIATION De Ross	167
32	POST GLOBLISATION AND ITS IMPACT ON VARIOUS SECTOR	177
D	OF INDIAN ECONOMY	
e:	Dr. V. Kalaiselvi	
33	FINANCIAL GROWTH PATTERN OF SHRIRAM GENERAL INSURANCE COMPANY LTD. (SGI INDIA) DURING 2018-2019	183
	Dr. A. Oliver Bright	The second secon
	J.M. Elskin Bernisha	
34	TRANSITIONS IN EDUCATIONAL SYSTEM: BEING UNDISRUPTED DURING DISRUPTIONS	187
	Dr. Liuhin M. J., Dr. Joby Joy	77
35	UNDERSTANDING GENDER STEROTYPES OF MANAGERS	190
	Smarty P. Makandan	
36	LEVERAGING RELATIONSHIP MARKETING STRATEGIES FOR ENHANCING BRAND TRUST AND GAINING BRAND LOYALTY: THE PINANCIAL SERVICES PERSPECTIVE	197
*	Mukti Prakash Behero, Or. Bindu Nambiar	
37	EMERGING TRENDS IN OMNICHANNEL RETAILING- A FUTURISTIC PERSPECTIVE Dr. Dulari S. S. Manju Mecnakshy	2/04
38	SOCIAL BANKING: LEVERAGING SOCIAL MEDIA FOR EFFECTIVE CUSTOMER ENGAGEMENT	209
	Dr. Bindu Nambiar, Muku Prakash Bebera	



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Business Management Practices-Emerging Trends

full view of the products and information through online channels. Ultimately it is about embracing change to grow, adapt and win in the retail business.

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108

2. 'The Role of PAI 1 gene in wound closure of scratch wound models under the treatment of *Hemigraphis alternata* leaf extract (HALE)' - Dr DIVYAA SREEKUMAR

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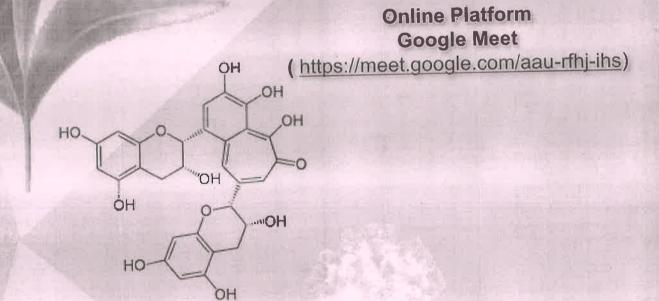
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	Contents	Page
SI. No.	Title	No.
Ĭ	Prof. Dr. Abdulkhader Hisham – An Eminent Academician and Phytochemist K. B. Rameshkumar and Priya Rani M Phytochemistry and Phytopharmacology Division KSCSTE-Jawaharlal Nehru Tropical Botanic Garden and Research Institute Palode, Thiruvananthapuram- 695 562, Kerala, India	1
2	Keynote Presentation Phytochemistry- Uses in medicine and industrial applications G.A.S. Premakumara University of Colombo, Sri Lanka	5
3	Prof. Dr. A. Hisham Endowment Lecture Evidence based traditional medicinal plants Intan Safinar Ismail Universiti Putra Malaysi, Selangor, Malaysia	8
4	Prof. Dr. A. Hisham Endowment Award Topic Phytochemical investigation of selected Garcinia species from the Western Ghats Lekshmi N Menon and K. B. Rameshkumar KSCSTE-Jawaharlal Nehru Tropical Botanic Garden and Research Institute Palode, Thiruvananthapuram, Kerala, India	10

Oral Presentations Session I 28-09-2020 (First Day)

Time: 12.30 pm to 1.30 pm Chair: Dr. V. George, Director, Amity Institute of Phytochemistry and Phytomedicine,

Thiruvananthapuram SI. Name		Title		e
No.	Dr. Adil Farooq Wali	Antileishmanial activity of isolated compounds from propolis	15	
2	Dr. Anju V. Jalaj	Identification of luteolin and genistein from bioactive fraction of <i>Operculina turpethum</i> (L.) Silva Manso	16	
3	Ms. Anupama K. P.	Jatamansinol ameliorates human microtubule-associated protein tau (hMAPτ) induced neurotoxicity in Alzheimer's	17	
4	Ms. Bona Sajimon	disease <i>Drosophila</i> model Analysis of leaf volatile chemicals in selected local varieties of <i>Mangifera indica</i> in south Kerala through HS/GC-MS	18	
5	Dr. Lakshmi Mohan	method Studies on the cytotoxic mechanism of indirubin, a bis-indole alkaloid from <i>Indigofera tinctoria</i>	19	
6	Dr. Ramesh S. V.	Coconut testa-derived biocolourant and oil: A treasure trove	20	

Synergistic effects of probiotic strains with oxyresveratrol 21

isolated from agro waste -A value addition approach



of antioxidants

7

Ms. Vidhya Prakash

Session II 28-09-2020 (First day)

Time: 2.00 pm to 4.30 pm

Chair: Prof. (Dr.) A. Gangaprasad, Dean, Faculty of Science, Uty of Kerala, Thiruvananthapuram and

Dr. Raghu K. G., Senior Principal Scientist & Head, Agro Processing and Technology

Division	CSIR-NIIST.	Thiruvananthapuram	

S1 No.	Name		
8			No
	Ms. Amina S.	Phytochemical analysis, medicinal potentials and cytostatisty	23
9	Mr. Amose P. Thomas	Phytochemical screening, FT-IR analysis and antibacterial efficacy of Silverback fern (Pityrogramma calomelanos)	24
10	Ms. Ananthi V.	Identification of potent natural compound for psoriasis from reported plants: A computational approach	25
11	Ms. Chandana J. S.	Bio insecticidal potential of Aparagus racemosus as evidenced by phytochemical analyses	26
12	Ms. Divyaa Sreekumar	The Role of PAI 1 gene in wound closure of scratch wound models under the treatment of <i>Hemigraphis alternata</i> leaf	27
13	Dr. Durga Prasad Barik	extract (HALE) Qualitative phytochemical screening of two valuable medicinal plants belongs to family Apocynaceae	28
14	Ms. Haifa S. Ashraf	(Catharanthus roseus and Alstonia scholaris) Antimicrobial and antioxidant activity of the methanolic extract and essential oil from Melaleuca styphelioides Sm.	29
15	Ms. Lakshmi M. V.	Evaluation of phytochemical and pharmacological potential of <i>Merremia tridentata</i> (L.) Hallier F.	30
16	Ms. Nivedha K	In-silico repurposing of NPACT database for skin cancer	31 32
17	Ms. Priyanka K.	An anti-arthritic effect for psoriatic arthritis of natural compounds: A virtual screening approach	
18	Ms. Remya G. Nair	Fourier transform infrared spectroscopy analysis of	33
		Lipoblepharis urticifolia (Bl.) Orchard. and its antibacterial activity	2.4
19	Mr. Rupinderpal Kaur	Preliminary phytochemical screening of different solvent mediated Cucumis L. and Momordica L. extracts of the	34
20	Ms. Shanti	family Cucurbitaceae GC-MS profiling and in silico ADME prediction of bioactive	35
20	Vasudevan C. N.	compounds in the roots of Chrysopogon zizanioiaes (L.)	
21	Dr. Shrishail H. C.	Biochemical studies on Azima tetracantha Lam. of Raichur	
22	Dr. Sinimol T. P.	Comparative phytochemical evaluation of the genuine and market samples of the stem bark of 'cirabilwa' (Holptelea integrifolia Planch)	,
23	Ms. Smitha C.K.	Radermachera xylocarpa (Roxb.) K. Schum- A potent source of therapeutically active biomolecules	
24	Ms. Smitha Devi P. S.	Phytochemical screening of methanolic in vivo and in vitro root tuber extracts of <i>Holostemma annulare</i> (Roxb.) K Schum and its antioxidant potentialities	39



<u>Session III</u> 29-09-2020 (Second Day) Time: 12.00 pm to 1.30 pm

Chair: Dr. G. Jayakumar, Former Principal, MG College, Thiruvananthapuram Page Title Name SI. No No. Bioprospecting genetic resources of medicinal and aromatic 41 Dr. Archana P. Raina 5 plants of India for phytochemicals of pharmaceutical value Head space volatile chemical analysis of Murraya koenigii 42 Ms. Aswani 26 Sureshbabu T. (L.) Spreng Vibrational spectroscopic analysis of the triterpenoid 43 Ms. Aswathy S. V. friedelin Cytotoxic activity of Physalis angulata L- A comparative Ms. Jayachithra R. 28 study of leaf and fruits Essential oils modulate antibiotic mediated persister cell 45 Ms. Jayalekshmi H. 29 formation of Pseudomonas aeruginosa Inhibiting the isoniazid resistance in Mycobacterium 46 Ms. Madhana Priya 30 tuberculosis using seaweed metabolites: A screening and dynamics approach Green synthesis of silver nanoparticle using flowers of 47 Dr. Silvy Mathew 31 Calotropis gigantea (L.) W. T. Aiton and its activity against pathogenic bacteria

Session IV 29-09-2020 (Second day) Time: 2.00 pm to 3.00 pm

Chair: Dr. A. Jayakumaran Nair, Head, Dept.of Biotechnology, Hon. Director, IUCGGT,

University of Kerala				
Sl No.	Name	Title	Page No.	
32	Ms. Chandana R.	Phytochemical evaluation and antioxidant activity of the fruit of <i>Garcinia dhanikhariensis S.</i> K. Srivast An endemic edible tree species of Andaman and Nicobar Islands	49	
33	Ms. Krishna Yadav	Role of the phytochemicals flavonoids in lung immunity of Albino rat		
34	Ms. Mary Suja R.	Scientific evaluation of traditional south Indian Siddha breast cancer medicines	51	
35	Ms. Snehalatha V. R.	A comparative study of morpho-anatomical and pharmacological potential of Syzygium laetum and Syzygium palghatense, endemic to Western Ghats	52	
36	Ms. Viji J. M.	Nutritional and phytochemical characterization of <i>Psidium</i> guineense Sw An underutilized edible fruit	53	



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The Role of PAI 1 gene in wound closure of scratch wound models under the treatment of *Hemigraphis alternata* leaf extract (HALE)

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Abstract

Hemigraphis alternata the potent exotic herb is used widely in folklore medicines as an effective wound healing drug. The result of the present study demonstrates the molecular mechanism of the wound healing effect of scratch wound model cell line cultures (myoblast L6 cells) by treatment of HALE. Histological changes on the cells were observed for 3 days after the treatment with HALE at an interval of 24 hrs. The parameters like antiinflammatory activity by membrane stabilization of RBCs, protein and proteinase denaturation, and antioxidant property by NOX assay and DPPH assay were determined. Cell viability in the presences of HALE was examined by MTT assay. The qPCR data further support the histological and phytochemical observations. It's obvious from the data that HALE showed a higher efficiency in inducing the expression of PAI 1 gene which in turn indicates its wound healing efficacy. At molecular level, effect of the marker gene PAI 1 gene in wound healing was revealed by quantifying the gene copy number in HALE treated scratch wound cells by qPCR. A higher level of PAI 1 gene copy was observed in HALE treated cells than the control i.e. without HALE. The gene quantification data further supports the wound closure observed in scratch wound models treated with HALE. To the best of our knowledge, this is the first report showing the wound healing effect of HALE with molecular evidenc

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SII ENCED VOICES OF THE FEMALE MODERODCE IN THE TEADLANTACINIONS	. 3	35 30	LID 0100	Doumload



A COMPARATIVE STUDY ON CONSUMER PROTECTION ACT OF 2019 AND 1986

Aiswarya Murali

Assistant Professor, SCMS School of Technology and Management, Muttom, Aluva, Kerala

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Received: Sep. 2020 Accepted: Oct. 2020 Published: Nov. 2020

Abstract: Consumer refers to any person who purchases some goods for a consideration that has been either paid or promised to pay or partly paid and partly promised.

The consumer protection Act 2010 provides for the protection of interest of consumers and to establish authority for timely and effective administration and settlement of consumer disputes. The Act has been enacted by the parliament in the 70 set year of republic of India and received the assent of the President on 9th August 2010 thereby repealing the Consumer Protection Act 1986. In the modern era of marketing where consumer sovereignty exists this Act plays a significant role. The various lacunae created by the provisions of Consumer Protection Act 1986 stipulated the need for redesigning and forming a new Act with more strict and stringent rules which finally led to the Consumer Protection Act 2019. In this paper we will be making a comparative study on the provisions of Consumer Protection Act 2019 and Consumer Protection Act 1986. The paper will also highlight the role played by different consumer protection councils in dealing with the issues of consumer.

Keywords: Consumer, Protection, Councils.

Introduction: "A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is part of it. We are not doing him a favour by serving him. He is doing us a favour by giving us an opportunity to do so" - Mahatma Gandhi.

The existence of a business is solely dependent on the consumers. They are the in the forefront in all aspects business. Consumer Sovereignty is the lime light in this era of globalization. The key motivation for the production units to run smoothly are the demand for the consumers. The consumer is an individual who pay for buying goods and availing services. They play an important role in the chain of distribution.

Consumer refers to any person who purchases some goods for a consideration that has been either paid or promised to pay or partly paid and partly promised.

To protect the interests of consumers in 1986 the landmark legislation of Consumer Protection Act was enforced from 1986. It provides all round protection to consumers and safeguards against various types of exploitation. The act ensures simple speedy and inexpensive machinery for redressal of consumer grievances at district, state and national level. The agencies had jurisdiction to adjudicate the complaints received from consumers against any defect in the goods purchased or deficiencies in the services availed or any other trade practices. The Act is applicable to all goods, services and unfair trade practices unless exempted by the Central Government under all sectors-Private, Public or Co-Operative.

Consumer Protection Act 2019 replaced the Consumer Protection Act 1986 and aims at protecting at strengthening the rights of consumers by establishing authority imposing strict liabilities and penalties on product manufacturers, electronic service providers, misleading advertisers, and by providing additional settlement of consumer disputes through mediation

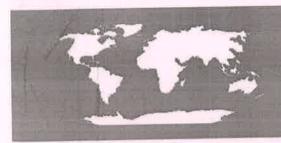
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/ 23



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Sr. No	Contents	Page No
1	EXPLORING THE LIFE EXPERIENCES OF WHEELCHAIR USER STUDENTS IN ADDIS ABABA UNIVERSITY: A GROUNDED THEORY PERSPECTIVE Adugna Bersissa Merdassa	1 – 5
2	LAND USE AND LAND COVER DYNAMICS IN RELATION TO SLOPE AND TYPES OF LANDSCAPE: A CASE STUDY OF MANIPUR Kiran Sharma	6 – 12
3	A STUDY ON MORPHOMETRIC CHARACTERISTICS OF JIADHAL RIVER BASIN USING REMOTE SENSING AND GIS Akangsha Borgohain and Dhrubajyoti Sahariah	13 – 19
4	LEVEL OF DEVELOPMENT AND ENCOURAGEMENT TO TEXTILE INDUSTRY EMPLOYEES IN TIRUPUR Dr. Kanakarathinam. R	20 – 24
5	DETERMINANTS OF PROFITABILITY IN INDIAN TELECOM INDUSTRY USING FINANCIAL RATIO ANALYSIS Anita Nandi Barman and Prof. Partha Pratim Sengupta	25 – 29
6	AN ANALYSIS OF TRENDS OF BANKS IN NIFTY BANK USING RELATIVE STRENGTH INDEX (RSI) AND RATE OF CHANGE INDICATOR (ROC) V. S. Binu and Dr. T. Vetrivel	30 – 38
7	THE ROLE OF SEBI IN PROTECTING THE INTERESTS OF INVESTORS AND REGULATION OF FINANCIAL INTERMEDIARIES: A CASE STUDY OF RAYALASEEMA REGION, ANDHRA PRADESH – INDIA S Mohana Murali	39 – 57
8	M-COMMERCE: NEW GENERATION Dr. Brijesh H Joshi	58 – 6
9	CONSEQUENCES OF DOMINANCE BY AN INTERESTED PERSON IN JUDICIAL PROCEEDINGS IN INDIAN COURTS: A CRITICAL STUDY Dr. Dhananjay Avasarikar	62 - 6
10	EMPOWERMENT AND WOMEN ENTREPRENEURSHIP IN TRIBAL AREA [A CASE STUDY FOR INDORE DIVISION OF MP] Dr. Rajendra Singh Waghela	66 – 7

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Short

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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year

2021 - 2022

SI .No	Title of the book/chapters published	Name of the teacher
1	Origin and development of Hindi Language and Structure of Hindi	Dr.Sujith Kumar
2	De-motivating factors towards entrepreneurship career among management student	Tess Jacob
3	Pokkali Krishi	Dr. Surya Babu S.
4	Bio entrepreneurship in Biosciences - Recent Approaches	Divya U K
5	Research Report Writing – Craft it well	Dr Praveena K. and Dr. Radha Thevannoor
5	India Quiz	Govind S Menon
7	Development of a photovoltaic thermal collector	Govind S Menon
3	Business, Economic s and society – the shifting paradigm	Dr Deepa Pillai
)	Real Life Management	Dr Deepa Pillai
10	Molecular Docking Analysis of Apigenin against Bacterial FtsZ gene	Dr.Deepthi D C
l 1	In Silico prediction of new drug candidate from Piper nigrum against bacterial Mur A gene	Kurian Anoja
12	Anti-inflammatory action of quercetin against Cyclooxygenase-1 enzyme, an Insilco approach	Dr. Harish M
3	Identifying the potential role of curcumin analogues as anti- breast cancer agents in an In silico approach.	Divya U K
14	The Potential of Kaempferol Derivatives As Anti SARS-CoV-2 Drugs By In Silico Docking Study	Dr. Harish M
5	Differential Binding of SARS-COV-2 Variants to Anti-viral molecules: An In Silico Study	Dr. Sethulekshmy Nair



1. Dr. Sujith Kumar- Self Learning Material and MCQs of 3rd and 4th Semester Programmes 2019

हिंदी भाषा : उद्भव और विकास और हिंदी भाषा की संरचना ORIGIN AND DEVELOPMENT OF HINDI LANGUAGE AND STRUCTURE OF HINDI (HIN3C10)



SELF LEARNING MATERIAL

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M.A. HINDI (2019 Admission)

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Self Learning Material

(III Semester)

M.A. HINDI

(2019 Admission)

HIN3C10: ORIGIN AND DEVELOPMENT OF HINDI LANGUAGE AND STRUCTURE OF HINDI

Prepared by:

Dr. SUJITH M.S. Assistant Professor in Hindi SCMS School of Technology & Management Muttom, Aluva, Ernakulam.

Scrutinized by:

SHEEJA P.V. Assistant Professor in Hindi Swami Saswathikananda College Poothotta, Ernakulam.

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INDEX

MODULE 1	हिंदी की ऐतिहासिक पृष्ठभूमि	1 - 13
MODULE 2	हिंदी का भौगोलिक विस्तार	14 - 20
MODULE 3	हिंदी का भाषिक स्वरुप	21 - 57
MODULE 4	हिंदी के विविध रूप	58 - 74



2. Tess Jacob: Demotivating factors towards entrepreneurship career among management student : ISSN:2336-2693 | E-ISSN:2336-4890

Central European Management Journal Vol. 30 bs. 4 (2022) ISSN:2336-2693 | E-ISSN:2336-4890

Demotivating factors towards entrepreneurship career among management student

Tess Jacob

Assistant Professor BC om Department SCMS School of Technology and Management Muttom, Kalamassery

ABSTRACT

Entrepreneurs are the key pillars for the development of a country like India hence it is in the developing stage. The person who is doing the process of entrepreneurship activity is called an entrepreneur. Students are taught to be executives, corporate leaders, directors and administers through management education, which is a discipline of higher education. The goal of this research paper is to find out the demotivating factors among management students to pursue a career in entrepreneurship. With the use of SPSS software, the data was analyzed using descriptive analysis, one way ANOVA, cross tabulation and t-test. The study discovered that out of all the demotivating elements unavailability of capital is ranked one with 3.1683 mean and 1. 36398 standard deviation.

Keywords: Economic development, Entrepreneur, Career, Demotivation and Capital

1 Introduction

Management education's primary goal is to mold future company leaders. Students learn how to build the necessary leadership skills through this program me. Manage a group of People who work in management education must be able to adapt to new situations. In terms of legislation, regulations, and trends India has a large number of reputable management institutes that paracipate in the program for the progress of the country. Management institutes are marketing themselves on the basis of number of placements during the course duration. So while pursuing education, students look forward to highly paid jobs. They do not think about the entrepreneurial opportunities available in the market and are not willing to accept entrepreneurship as a career option. Certain demotivating factors are there belieful the reason for not choosing an entrepreneurship career. The purpose of this study is to rank the various demotivating factors among management students and how it related with different demographic features.

2 Statement of the problem

In current situation, youngsters will start job hunting immediately after the completion of job. They will consider business as the last option in the career list. Management institutes and parents are not supporting the students to gain the entrepreneurship career; they will push the students to get highly paid jobs. Apart from that our education system focuses more on exams and results, instead of innovation and creative ideas. Hence, the problem is stated as demotivating factors towards entrepreneurship career among management students with reference to Kottayam factors.

3 Objectives

- To study various demotivating factors towards entrepreneurship career among management students.
- To analyse the relationship between demotivating factors and various demographic features of management students.

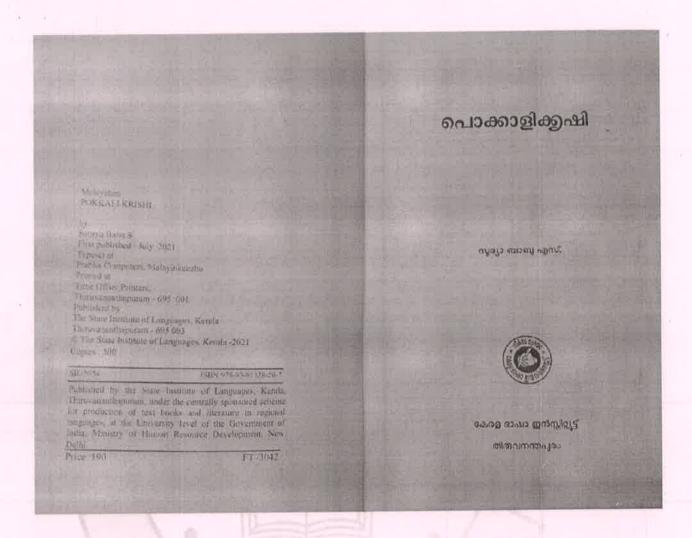
4 Research Methodology

The researcher has adopted a descriptive study for this paper. Cochran sample size formula is used to select 208 samples out of the population since it is a finite population. The population for this study is all the final year management students in Kottayam district. A structured questionnaire is distributed among the management



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3. Dr. Surya Babu S. - Pokkali Krishi - ISBN 978-93-91328-20-7



Book

Pokkali Krishi Surya Babu S.

Pokkali is a unique rice variety with Geographical Indication Status. This book explains the cultivation methods, importance and medicinal properties of Pokkali rice which is cultivated in Kerala.

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ISBN: 9789391328207



4. Divya UK - Bioentrepreneurship in Biosciences - Recent Approaches ISBN : 978-93-93942-38-8

Bioentrepreneurship in Biosciences - Recent Approaches

Sustainable Development Goals-2030 Agenda

Dr Divya UK

Assistant Professor, SIBB R &D SCMS Institute of Technology and Management Management House, South Kalamassery Ernakulam, Kerala- 682033

Email: divyauk22@gmail.com

Introduction

Contents

- **♦** Introduction
- 17 SDG Goals :
 - 1. End poverty in all its forms everywhere
- 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture
 - 3. Ensure healthy lives and promote well-being for all at all ages
- 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
 - 5. Achieve gender equality and empower all women and girls
 - 6. Ensure availability and sustainable management of water and sanitation for all
 - 7. Ensure access to affordable, reliable, sustainable and modern energy for all
- Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
- Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation
 - 10. Reduce inequality within and among countries
 - 11. Make cities and human settlements inclusive, safe, resilient and sustainable

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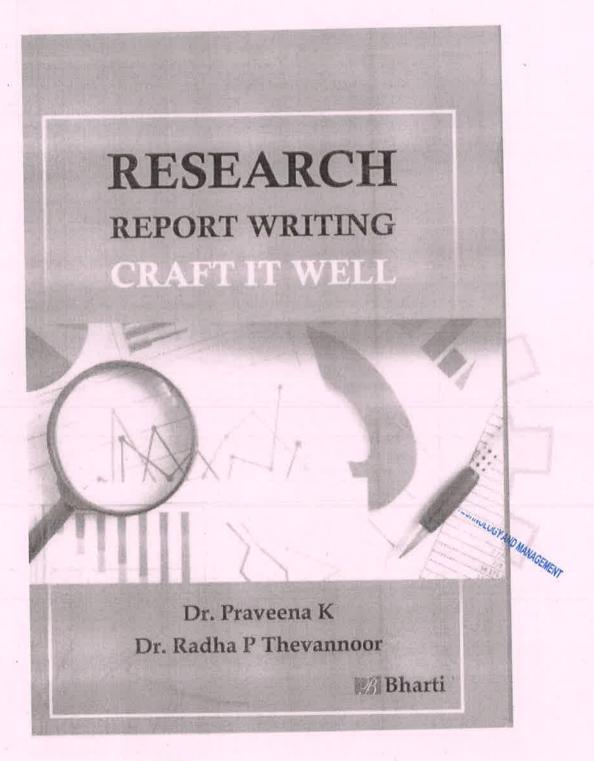
- Ensure sustainable consumption and production patterns 13. Take urgent action to combat climate change and its impacts
- 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development
- 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity foss

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5. Dr Praveena K. and Dr Radha Thevannoor: Research Report Writing – Craft it well ISBN 978-93-90818-67-9





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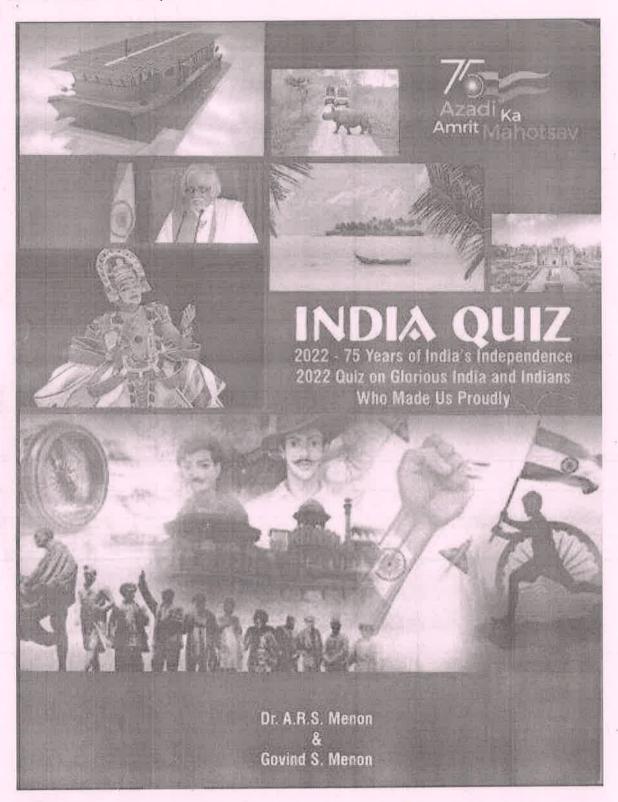
CONTENTS

	Preface	iii
1.	Research	1-9
2.	Basic Structure of A Report	10-14
3.	Introduction	15-18
4.	Background	19-22
5	Methodology	23-29
6.	Data Analysis, Interpretation and Discussion	30-35
7.	References	36-42



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Printed at:
Print Express, Kalour, Cochin

Published by:

Nandanam Books, 'Nandanam', Vikas Nagar, Maradu P.O., Cochin - 682 304 Mob. 9447706041 Email: arsmenon@gmail.com

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Proceedings of the International conference on Descentible seclescopy and Internation for Industry 4 0 (1) edit 2021 April 21-22, 2022 CUSAT, Each Escale Date:

DEVELOPMENT AND EXPERIMENTATION OF A HYBRID PHOTOVOLTAIC THERMAL (COGENERATION) SYSTEM

Conind S. Micron', Jacob Elfast, S. Murell'

Research Student, 'Professor. 'Scientist'
(School of Engineering, Cochot University of Science and Technology, **Eachs**– 882-622, Kerula India

'School of Engineering, Cocket Camerus; of Science and Technology, **Kachl**– 682-622, Kerula India

WAR-Course from it of Fuhrman Technology: Knob . 592 029, Knob . Index

ABSTRACT

PV/I arrives in a hybrid co-generation technology device along with a photocoline panel and thermal subsents that produces electric and thermal analysis acultaneously. The PV module or cooled using the voice has generated smaller the module and alternated the avoided performance of the distributions. Flat plant collectors are easy to fabricate and word less maintenance. Flat plant collectors are easy to fabricate and word less maintenance. Flat plant collectors additionally collect that from each types of valuation—becaute or defined. In a PFT device, the heat generated using the photocoline is associated on an alternation absorber plant and elemented by convention using the glotting of material valuation paper, and entracting the water heat from the panel In this mody a Sequential indexperiousned. The characteristic effections the PV I review to calling was found to be 14.90 %. The observed thermal efficiency of the PV I review visio conting was found to be 14.90 %. The observed thermal

ENTERNIBLECTECK

The photovolitate-thermal hybrid solar codector for PV T is a system that combines a photovolitate (PV) module for solar energy conservation and a high-efficiency thermal conservation module that more a thermal fluid (Ransos et al. 2014). Majority of the solar energy as absorbed or reflected in the solar code and a result, the operating temperature of the solar cell stors dimensionally after lengthy separations. Unglaced collectors have a higher electronal efficiency and reduced convention beat. Flui plate solar collectors are a promising alternative for finite, some they are cheap and simple to fabricate. The outries statement includes the technology beating these collectors and traces that development mechaning design and operating aspects such as absorber plate designs, use of moved materials for absorber plate, use of more finely for collectors are susplicit to stake and require limb materiance (Porchitan et al. 2020). Flui plate collectors gather beat from both beam and diffuse radiation, PV-T is a form of cooperation system technology that absorbs waste heat form a solar panel to provide both power and beat from a single system (Dupeyral et al. 2011). The current study explains the methodology of Flui plate photovoolate factoral collector fibrication and expansionation PV-T panel (emperation in solared by the cooling maintains, multiding air, water, and nanoflust me factoral so things for domestic and industrial applications (Haurant et al. 2014). Wang et al., 2019; Dans et al., 2019; A PVT assert can harmon maximum energy per and true that a grant-fitter at a grant-fitter plate photonomic deal solar measurement energy per and are due to a parallely fixed PV ponel and solar measurements and true fitter a parallely fixed PV ponel and solar measurements of the parallely fixed PV.

130



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BUSINESS, ECONOMICS, AND SOCIETY

THE SHIFTING PARADIGM (VOL – II)

EDITOR

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Assistant Professor
Department of Commerce
Uluberia College affiliated to the University of Calcutta

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CONTENTS

CHAPTER	CHAPTER AND AUTHOR(5)	PAGE
NO.		NO.
1.	IMPACT OF CAPITAL STRUCTURE ONTHE PROFITABILITY OF SELECT COMPANIES IN INDIA- AN EMPIRICAL STUDY Dr. Amalesh Patra	01
2.	SUSTAINABLE AGRICULTURAL PRACTICES AND MARKETING MANAGEMENT IN WEST BENGAL: THE ROLE OF EDUCATION Dr. Partha Pratim Roy	18
3.	PERCEPTION OF INVESTMENT AMIDST THE FIRST WAVE OF COVID - 19 - A STUDY ON SELECTED INVESTORS IN KOLKATA Somrita Dey & Ayan Banerjee	39
4.	A STUDY ON DECISIVE FACTORS OF CONSCIENTIOUSNESS TOWARDS SELECTED SUPERMARKETS IN COIMBATORE CITY Prof. Mrs. Shallendra Dhanaya. M & Dr. N. Tamilichelvi	70
5.	SELF-MANAGEMENT AND WORK FAMILY CONFLICT: AN ANALYSIS AMONG WOMEN FACULTY IN HIGHER EDUCATION BURING PANDEMIC Mrs. Dolan Champa Banerjee	80



Showfa

CHAPTER	CHAPTER AND AUTHOR(S)	PAGE
		NO
NO.	MARKETING DIFFICULTIES HAVE BEEN OBSTRUCTED BY COCONUT GROWERS IN KAKDWIP AND PATHARPRATIMA BLOCKS OF WEST BENGAL Atanu Mondal	100
7.	INTEREST OF RURAL WOMEN IN SMALL BUSINESS IN COVID 19 PANDEMIC: STUDY ON CACHAR DISTRICT Dr. Dipsikha Das	108
8.	COMPARATIVE ANALYSIS OF FINANCIAL PERFORMANCE IN BANKING INDUSTRY – A STUDY ON SBI AND ICICI CMA Sandip Basak	122
9.	REVIEW OF IMPLEMENTATION OF STRATEGIC POSITIONING BY GODREJ INDUSTRIES Gagandeep Kaur & Jaspreet Kaur	134
10.	A STUDY OF SUSTAINABLE TOURISM DEVELOPMENT IN DIGHA Gourab Das	142
11.	PARADIGM SHIFT IN RURAL MARKETING IN INDIA: AN OVERVIEW Dr. Aniruddha Sarkar	150
12.	THE INTER-RELATION BETWEEN WOMEN EMPOWERMENT AND SUSTAINABLE DEVELOPMENT: A STUDY WITH REFERENCE TO INDIA Sri Suvarun Goswami	163



Showfe

CHAPTER NO.	CHAPTER AND AUTHOR(5)	PAGE NO.
13.	TOURISM INDUSTRY IN INDIA AND COVID-19: AN OVERVIEW Dr. Nanda Dulai Hazra	172
14.	PROBLEMS AND PROSPECTS OF WOMEN ENTREPRENEURS: A STUDY ON KANNIYAKUMARI DISTRICT IN TAMIL NADU Dr. R. Thanga Sheela	184
15.	EFFECT OF MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GUARANTEE ACT: AN OVERVIEW Dr. Kakali Kundu	197
16.	POVERTY ABATEMENT AND ENVIRONMENTAL DEGRADATION IN INDIA: A SUSTAINABLE DEVELOPMENT APPROACH Or. Prasenjit Ghosh	207
17.	A MODERN APPROACH OF COMPUTING: CLOUD COMPUTING Ms. Aishwarya Kayal & Mr. Sukanta Dutta	218
18.	DECODING THE NATIONAL EDUCATIONAL POLICY 2020 FOR HIGHER EDUCATION Dr. Deepa Pillal	230
19.	CHALLENGES AND OPPORTUNITIES FOR MNES OPERATING IN EMERGING ECONOMIES Sournali Bose	252
20.	BEAUTY CARE PRODUCTS: MARKETING MIX AND DEMOGRAPHIC EFFECTS Jasneet Kaur & Anjali Sharma	265

CHAPTER	CHAPTER AND AUTHOR(S)	PAGE NO
NO.	IMPACT OF CLIMATE CHANGE ON COMPANY PERFORMANCE: A REVIEW BASED ON CASE STUDY Dr. Satarupa Datta	274

COVID-19

COVID-19

Prasanna Joseph

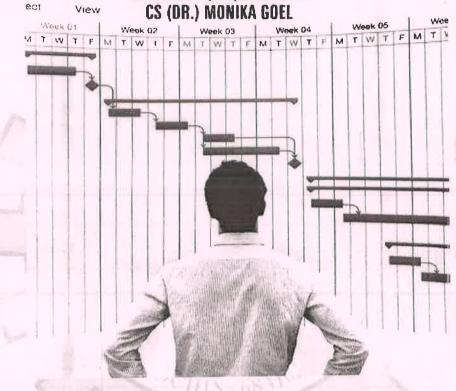
9. Deepa Pillai: REal Life Management



REAL LIFE MANAGEMENT CASE STUDIES

DEVELOPED IN FACTUAL CONVERSATION WITH INDUSTRY LEADERS

> PROFESSOR (DR.) AMIT SETH CS (DR.) MONIKA GOEL





Contents

		Acknowledgement	v
		Preface	vii
	1.	Veethree - A Case Study on Future Prospects Riding on Current Success Dr. Asish Kumar Panda, S. Krishna Soujanya, Dr. B. Madhubala, Dr. Upasana Gupta, Dr. Kirti Khanna	1
12	2.	Sarvodaya Healthcare: Making New Inroads & Gaining Momentum Dr. Priyanka Singh, Dr. Uma Ananth, Dr. Mamta Kumari, Dr. Shweta Sagar & Dr. Arti Joshi	16
		Sledgehammer - Navigating Challenges Through Innovation Dr. Subodh Saluja, Dr. Sonal Trivedi, Dr. Shobha Menon, Dr. Deepa Pillai	25
	4.	Analysis of Niche Product Marketing Strategy- A Case Study of Varahi Limited Dr. Nidhi Gupta, Ms. Vandna Zutshi Bhat	38
	5.	Transforming Social Entrepreneurship in India: A Case of EnglishHelper Dr. Sonali Patil, Ms. Arkaja Garg, Dr. Pritam P. Kothari, Dr. Yogesh Ingale, Dr. Bindu Malviya	56
	6.	Daikin Airconditioning Pvt. Ltd. Adversities to Opportunities Or. Priyanka Singh, Vanshaj Mangaia, P. Revathi	62
,¥	7.	Innovation led Business and a Journey Ahead - A Case Study of Maharani Innovative Private Ltd. Dr. Bhavesh Joshi, Dr. Kamai Laxmi, Dr. Ashok Nimesh & Dr. Preeti Chhabra	71
	8.	On anational Excellence: The Case of Indo	80
		Dr.Amandeep Ditainan Dir.	



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REVA-UMS-031: Molecular Docking Analysis of Apigenin against Bacterial FtsZ gene.

Gayana Shaji, Deepthi D C, Harish M and Nair S

¹SCMS Institute of Biosciences and Biotechnology Research & Development, South Kalamassery, Cochin-682033, Kerala, India.

*Corresponding Author: gayanashajigayana@gmail.com

ABSTRACT: The emergence of multiple drug resistant microorganisms is a serious and worldwide problem that has prompted research into the identification of new biocides with broad activity. Phytochemicals from medicinal plants are known to have anextended history for effective treatment against various pathogens and infections. The genus Ocimum consists of aromatic herbs and shrubs which have medico-botanical importance. Apigenin is a major bioactive compounds found in Ocimum species. Filamenting temperature-sensitive mutant Z (FtsZ) gene encoded FtsZ protein that assembles at bacterial cell division site and forms Z-ring structure. FtsZ is a tubulin homolog protein with low sequence similarity; hence it is possible to inhibit bacterial FtsZ protein without affecting the eukaryote cell division. In the present study, apigenin was virtually screened for their antibacterial activity against selected gram positive and gram negative bacteria's cell division protein, FtsZ. In silico molecular docking were carried out using Patch dock to investigate the effect of apigenin as a new lead inhibitor against bacterial cell division protein FtsZ. Docking studies and secondary structure prediction of the FtsZ gene of bacteria revealed that apigenin has higher binding affinity with the FtsZ gene and also bound near to the active site of the gene. Thus, the current study presents an experimental validation of antimicrobial activity and potential of apigenin as a lead anti-microbial molecule.

REVA-UMS-032: In Silico prediction of new drug candidate from Piper nigrum against bacterial Mur A gene.

Aswathy PV, Kurian Anoja, Deepthi D C, Harish M and Nair S

¹SCMS Institute of Biosciences and Biotechnology Research & Development, South Kalamassery, Cochin-682033, Kerala, India.

*Corresponding Author: aswathypv535@gmail.com

ABSTRACT: The use of medicinal plants to cure various diseases dates back to ancient civilizations. Piper nigrum or Black pepper is the most well known species with its various useful pharmacological properties. Black pepper is one of the most valued and widely used spices in the world and dominates multi-billion dollar global spices trade. It is also considered as a valuable source of various bioactive constituents. Piperine or piperic acid was isolated from fruits of Piper nigrum and had been reported as pharmacologically valuable bioactive constituents. In this study, Piperine was evaluated for its antibacterial activity against selected gram positive and gram negative bacteria's MurA protein. UDP-N-acetylglucosamine enolpyruvyl transferance (MurA), which catalyzes the first committed step of bacterial peptidoglycan biosynthesis, is candidate for therapeutic intervention. Molecular docking was carried out to study the molecular interactions and binding affinities against the protein MurA, which is an essential prevention of the synthesis.

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trending in healthcare research. Phytochemicals proves to have great potential in this regard as they are pleiotropic in their function and target complex multiple signalling events of cancer. Hence, they are most suitable candidate for anticancer drug development. Also, they act differently on cancer cells without altering normal cells. Curcumin is known to have anti-cancer activity due to its phenolic constituents. It suppresses proliferation and metastasis of human tumors through regulation of various transcription factors, growth factors, inflammatory cytokines, protein kinases and other enzymes. Pharmacokinetic data has shown that curcumin undergoes rapid metabolism leading to glucuronidation and sulfation in the liver and excretion in the feces accounting for its poor systemic bioavailability. Hence the present study was conducted to detect possible natural analogues of curcumin (Capsaicin, Chlorogenic acid, Ferulic acid, Zingerone, Gingerol) which are effective against breast cancer receptors and prove the ethno-medicinal value of these analogues using bioinformatic tools and software's like PDB, Patch Dock, PubChem, Chimera and My Presto. Out of the various curcumin analogues studied, Ferulic acid showed best binding affinity with all the breast cancer cell specific receptors (FGF, MMP9, RNRM1, TGF-beta, DHFR, VEGF and aromatase) which was confirmed through the docking studies. The current work was a preliminary step towards screening suitable drug candidate against breast cancer, confirmed through in silico methods. This information can be used further to carry out In vivo studies considering Ferulic acid which is an analogue of curcumin as a suitable drug candidate against breast cancer.

REVA-UMS-030: Anti-inflammatory action of quercetin against Cyclooxgenases-1 enzyme, an Insilco approach.

Meghana PM, Harish M and Nair S

¹SCMS Institute of Bioscience and Biotechnology Research & Development (SIBB R&D)S.Kalamaserry, Cochin-33, Kerala,India.

*Corresponding Author: meghnamaallu@gmail.com

ABSTRACT: Quercetin is a flavonoid that belongs to the flavonol class of compounds, has many pharmacological activities, and in order for any clinical application, it is important to evaluate the safety of the compound. Cyclooxgenases are key enzymes in lipid signaling. They catalyse the first step in the production of prostaglandins, important mediators of inflammation, pain, cardiovascular disease, and cancer, and they are the molecular targets for non-steroidal anti-inflammatory drugs, which are the oldest and most chemically diverse set of drugs known to date. The objective of this study was to evaluate the potential of quercetin as anti-inflammatory agent against COX genes. The In-silico analysis showed that, quercetin binds at THR212 of Cyclooxgenases-1 enzyme and produces more binding affinity,-5.91 Kcal/mol than that of diclofenac,-3.2 Kcal/mol, an established ant inflammatory drug. Moreover, the lethal dose level of quercetin is three times higher than that of diclofenac, which a good edge for the standardization of dosage of quartering as a potential drug candidate for the treatment of inflammations, especially when most of the extending visit diseases like COVID19 have inflammatory consequences.

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in the release of arsenic to the environment. Geological sources of arsenic release includes weathering of arsenic-containing rocks and volcanic activities. Conventionally arsenic is remediated from the environment by membrane filtration, ion-exchange, oxidation, adsorption, coagulation and flocculation techniques. However, remediating arsenic using these techniques involve high costs and release of hazardous sludges. Thus, involvement of biological methods in removal of arsenic from polluted environment has drawn attention of scientists. Application of heavy metals resistant microbes in remediation of arsenic can be considered as stable as well as economical alternative to the conventional techniques. This review article focuses on the hazardous impact of arsenic on environment and methods of bioremediation of arsenic.

REVA-UMS-028: Nanoparticle sensors: A potential solution towards understanding the agriculture-based pollution.

Prabhakar Mishra^{1*}, Sruthi Ann Alex², Karthiga Durairaj³, Bijaylaxmi Sahoo¹, Sarah Mohamed¹, Kiran N S¹

¹Department of Biotechnology, School of Applied Sciences, REVA University, Bengaluru, Karnataka.

²Centre for Nanoscience and Technology, Anna University, Chennai, Tamil Nadu.

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ABSTRACT: Humans are dependent on agriculture for food both directly and indirectly. With increase in global population, the demand for food has increased, while the availability of land and resources have decreased. To ensure maximum yield with the available resources, several pesticides, fertilizers, and chemicals are applied to the crops, which in turn results in pollution and eco-toxicity. Proper monitoring of these residual chemicals in food requires engagement of new modern technology in agricultural sciences. Nanotechnology has beneficially impacted agriculture in several aspects through revolutionized tools for better yield management, smart delivery system for pesticides, detection of excessive chemicals and for disease monitoring/treatment. This review article discusses about various agricultural pollutants, their ecotoxicity aspect and applicative potential of nanometric sensors like silver and gold nanoparticles towards detecting them.

REVA-UMS-029: Identifying the potential role of curcumin analogues as anti-breast cancer agents an In silico approach.

Praseetha N G, Divya U K and Nair S

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ABSTRACT: Cancer is a major public health problem that has a significant global impact on both developed and developing countries. Breast cancer ranks top among provided cancer cases and constitute a major portion of cancer in women. Development of target herapy when is effective with minimal side effects is

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8th International Symposium on Computational Biology, **Bioinformatics & Ayur Informatics** 6ⁿ-8ⁿ, January 2022 ● University of Kerala

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Printed by

Merriments, Kulathoor Road, Engineering College Jn Thiruvananthapuram- 695583

Dr. G SASHI KUMAR
PRINCIPAL
SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT

ISBN: 978-93-5566-491-4

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 $8^{\circ\circ}$ International Symposium on

oinformatics & Ayur Informatics 6° - 8° , January 2022 • University of Kerala

The Potential of Kaempferol Derivatives As Anti SARS-CoV-2 Drugs By *In Silico* Docking Study

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Abstract:

The emergence of the coronavirus that causes severe acute respiratory syndrome type2 (SARS-CoV-2) poses huge social, economic, and political issues throughout the world. Since late 2019, SARS-CoV-2 has killed approximately 3.5 million people. Mutations in the spike (S) glycoprotein are particularly concerning since it contains the domain that recognises the angiotensin-converting enzyme 2 (ACE2) receptor and serves as a target for neutralizing antibodies. Mutations in the S protein may cause changes in the surface spike structures, altering the conformational B-cell epitopes and potentially reducing vaccination effectiveness.

Here, we summarize how the spike protein of the variants of SARS-CoV 2, interact with various kaempferol derivatives namely "Astragalin" "Jugalin" "Kaempferitrin" and "Kaempferol 7 alpha rhamnoside" to identify novel inhibitors of spike protein. The 3' kaempferol compounds, Astragalin and Jugalin, displayed exact binding in the alpha strain, comparable to Remdesivir, the control antiviral molecule in this study. While the 7' derivatives kaempferol 7 alpha rhamnoside shows binding to the RBD regions of delta and Beta strain, The 3'7' Kaempferol derivative Kaempferitrin exhibits binding to RBD regions of all known strains except alpha and beta strains and also exhibit similar characteristics to that of the control drug remdesivir.

As a result, the selected kaempferol compounds bind to distinct binding sites of SARS-Cov-2 variants and exhibit propensity to prevent spike glycoprotein from binding to the ACE2 human cell receptor, potentially inhibiting infectivity. Many of the Kaempferol derivatives have binding affinity to many regions of the virus, including the RBD domain, according to our molecular docking data.

According to our in-silico research, these compounds have a lot of potential as anti-Covid-19 drugs. With further modification and validation, including preclimant and clinical research, these compounds can be developed into potential in and antiviral medications for human use.

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SCMS SCHOOL OF TECHNOLOGY AND MANAGEMENT

ISBN: 978-93-5566-491-4



8" International Symposium on

6°-8°, January 2022 • University of Kerala

Differential Binding of SARS-COV-2 Variants to Anti-viral molecules: An *In Silico* Study

Sethulekshmy Nair, Harish M and Deepthi DC

SCMS Institute of Bioscience and Biotechnology R&D, Kochi

Abstract:

The present public health crisis posed by the ongoing Covid-19 pandemic, calls for precisely effective antiviral strategies, in addition to the vaccines. Several known antiviral drugs are being repurposed to combat SARS COV2. These antiviral agents mostly belong to classes such as 3CL protease inhibitors, RNA synthesis inhibitors or ACE 2 inhibitors. However, as the pandemic is further unfolding new variants, the quest for specific antiviral agents is gaining momentum. In this study, from a plethora of drug molecules with established antiviral properties, especially against corona virus and in some cases SARS-COV-2 itself, we have selected two antiviral agents namely Arbidol, Bisoxatin, along with and two phytochemicals Quercetin and Guijaverin, which in our extensive binding studies showed remarkable binding affinity with spike protein of SARS-COV-2. Further, we studied the structure guided drug binding analysis of these four molecules with the spike protein structure of SARS-COV-2 variants Beta, Gamma, ,delta omicron and the Wuhan reference strain, by molecular docking analysis using Autodock Vina. It was observed that Arbidol has highest binding affinity to the spike protein of the reference strain but the binding affinity is comparable with other variants as well. Bisoxatin has highest binding affinity to delta and gamma variants, closely followed by Omicron variant. Quercetin which is an anti-inflammatory agent as well, exhibited higher binding affinity to beta variant, followed by omicron. Guijaverin, a derivative of Quercetin exhibited its highest binding affinity to omicron variant. From this in silico repertoire, the possibility of differential binding and inhibition of different variants by the same anti-viral agent is evident, which may lead to the discovery of variant specific antiviral agents. Further in-vitro studies in cell culture system are called for, to pinpoint the specific antiviral molecule(s).

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