

Healthcare and Biological Sciences Research Association

CONFERENCE PROCEEDINGS

17th International Conference on Healthcare & Life-Science Research (ICHLSR), 22-23 July 2017, Bangkok, Thailand

22-23 July 2017

<u>Conference Venue</u> Asian Institute of Technology (AIT), Conference Center, Bangkok, Thailand

17th International Conference on Healthcare & Life-Science Research (ICHLSR), 22-23 July 2017, Bangkok, Thailand

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KEYNOTE SPEAKER



Ah. Yusuf Lecturer and Researcher on Mental Health Nursing, Faculty of Nursing UniversitasAirlangga, Surabaya, Indonesia



Assoc. Prof. Dr.NarongsakNoosorn

Associate Dean for academic affair, Faculty of Public Health, Naresuan University, Phitsanulok, Thailand

17th International Conference on Healthcare & Life-Science Research (ICHLSR), 22-23 July 2017, Bangkok, Thailand

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PLENARY SPEAKER



Hajime Hirao

Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, China

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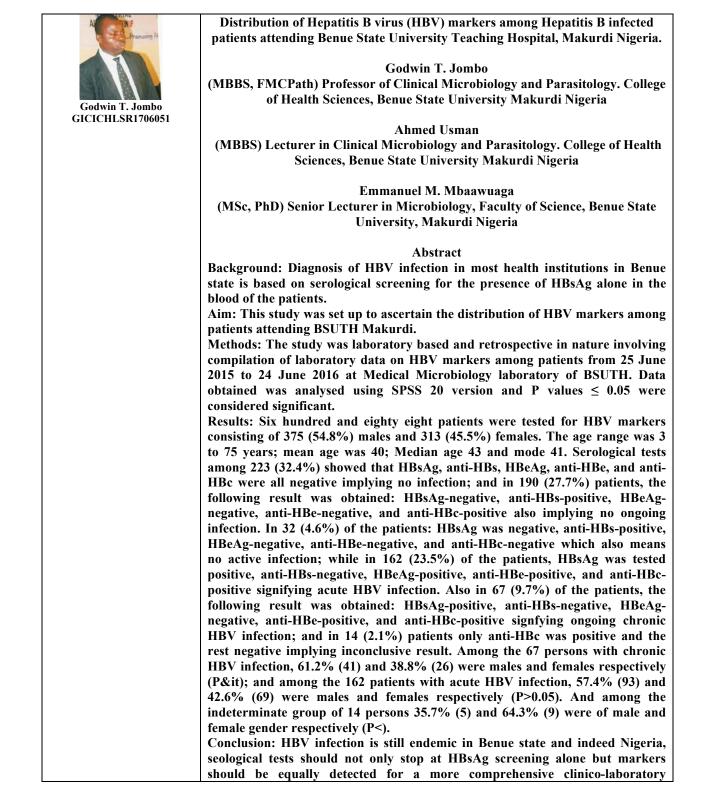


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	definition of cases.
	Key Words: Hepatitis B, Markers, Viral
Abdullah Adil Ansari GICICHLSR1706053	Antimicrobial potential of Azardirachtaindica (Neem) and Syzygiumcumini (Jamun) seeds against microbial pathogens from Diabetic foot
	R Kurup,
	AA Ansari, Department of Biology, University of Guyana, Georgetown, Guyana, South America
	K Sukhraj,
	A Wilson,
	P Mohamed-Rambaran
	Abstract
	INSTITUTION: University of Guyana
	Objectives: The main aim of study was to identify the phytochemicals and chemical constituents in the crude extracts by gas chromatography-mas spectrometry (GC-MS) and to identify the possible antimicrobial activities o Azadirachtaindica and Syzygiumcumini seeds against diabetic foot pathogens in Guyana.
	Design & Methods: Microorganisms were isolated from the pus sample of diabetic foot ulcer at the Diabetic foot clinic. Minimum inhibitory concentration of the plant extract was tested by the two-fold serial dilution method Azadirachtaindica and Syzygiumcumini crude extracts were analysed using a Thermo Scientific TRACE GC ULTRA. Tests were also done to identify the phytochemicals.
	Results: The total chemical constituents that were present in ethyl acetate crud extract were: methyl 14-methylpentadecanoate; 2-Furancarboxaldehyde, 5 (hydroxymethyl); 8,11-Octadecanoic acid methyl ester; Hexadecanoic acid methyl ester; 9-Octadecenoic acid (Z), methyl ester; Heptadecanoic acid, 16 methyl-, methyl ester.
	A total of 53 pathogens were isolated with the most common aerobic isolate were Pseudomonas sp, 11 (20.8%), followed by Escherichia coli, 9 (17.0%) Klebsiellasp and Proteus sp each, 7 (13.2%), and Acinetobacter sp, 4 (7.6%) Staphylococcus aureus isolated was 7 (13.2%). Syzygiumcumini showed a mean zones of 2 and 31mm and MIC of 25–100 mg/ml. Azardirachtaindica obtained
	mean zones of 5 and 25 mm and an MIC of 12.5–100 mg/ml. Conclusions: Azadirachtaindica and Syzygiumcumini showed a good antimicrobial property against diabetic foot pathogens.
	Double liposomes mediated dual drug targeting for treatment of Helicobacter pylori infections
	Yuvraj Singh Dangi
Yuvraj Singh Dangi	Kamta Prasad Namdeo
GICICHLSR1706054	Sagar Institute of Pharmaceutical Sciences, Sagar (M.P.)

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	extracted and evaluated. To identify the selected isolates, the ITS region of
	fungal rRNA was amplified and sequenced.
	Four fungal isolates were characterized as highly potent biomass and lipid
	producers. These isolates were nrc12, nrc14, nrc19 and nrc40 which showed
	high lipid accumulation percentage "35.17, 32.19, 22.97 and 22.28, respectively".
	These isolates were identified as Aspergillus terreus, Trichoderma harizianum,
	Fusarium oxysporum and Penicilliumpalitanans, respectively. When grown on
	rice straw (Rc) and sugarcane bagasse (Sb), F. oxysporum and P. palitanans
	showed the highest lipid yield at different C/N ratios, respectively. At different
	pH values, isolates grown on Sb accumulated higher lipid yield compared to Rc.
	Increasing the incubation period raised the lipid production. The highest lipid
	yield was recorded for A. terreus (2.2 g/l) followed by F. oxysporum (1.89 g/l)
	after 24 days when grown on Rc and Sb, correspondingly. In batch experiment,
	F. oxysporum displayed the highest biomass (4.08 g/l), lipid content (1.35 g/l)
	and lipid percentage (33.19 g/l). The fatty acids profile analysis by GC exhibited
	high presence of C16-18 fatty acids as main parameters for biodiesel production
	which constituents varied according to fungi isolate.
	Lignocellulolytic oleaginous fungi could be efficient source for biodiesel
	production. Aspergillus terreus, Trichoderma harizianum, Fusarium
	oxysporum and Penicilliumpalitanans are competent candidates for utilizing
	organic wastes for biodiesel production.
	Keywords: microbial lipids, oleaginous fungi, rice straw, bagasse, growth
	optimization.
	ArthrospiraAsparaginase: Storage, and biological activities
	Harras H. Abd Fl Dalar
	Hanaa H. Abd El Baky Plant Biochemistry Department, National Research Centre, 33 El Buhouth St.,
	Dokki, Cairo,Egypt
	Dokki, Callo,Egypt
Dr. HanaaAbd El	Gamal S. El Baroty
Baky GICICHLSR1706058	Biochemistry Department of, Faculty of Agriculture, Cairo University, Cairo,
GICICHLSKI/00058	Egypt
	50 T
	Abstract
	L-Asparaginase has been widely used as a food ingredient in thermally
	processed food and as a therapeutic agent in the treatment of certain human
	cancers. L-Asparaginase produced from Arthrospira (S. maxima) were
	immobilized on natural polymers such as agar cake beads, agarose pieces and
	gelatin blocks agar, agarose and calcium alginate in order to physical
	entrapment techniques were determined. It was found the tested biopolymer
	had the ability to produce the immobilized S. maxima enzyme L-Asparaginase
	with various efficiency degree. The highest immobilized activity and highest
	immobilization yield were obtained with agar cakes bead, which will,
	consequently, reduce both the enzyme and the product costs.
	The native S. maxima L-asparaginase showed a good antiviral activity
	against Coxsackie B3 Virus in a dose dependent manner with an IC50 of 17.03
	μ g/ml The action mode of this effect is presumably due to their capability of inhibiting attachment and blocking the advantion and penetration events of the
	inhibiting attachment and blocking the adsorption and penetration events of the viral raplication cycle with 89.24% 72.78% and 72.78% respectively. In
	viral replication cycle with 89.24%, 72.78% and 72.78%, respectively. In Human cancer cell line including lung carcinoma A 549 hepatocellular
	Human cancer cell line including lung carcinoma A 549, hepatocellular

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	carcinoma cells Hep-G2 and prostate carcinoma PC3 the antiproliferative effects of native L-asparaginase were observed as assessed by MTT cell viability assay. The IC50 values of asparaginase were found to be 22.54, 24.65 and 56.61 mg/ml for Hep-G2> PC3> A 549, respectively. For the first time, an L-asparaginase from S. maxima was evaluated as an antitumor agent in human cell lines and further investigations should be conducted to improve the S.
	maxima enzyme.
ArashShishehian GICICHLSR1706059	Patient need's,desire vs dentist ability in new methods of full mouth reconstruction
	ArashShishehian Prosthodontic Department,Hamedan University Ofmedical Science,Hamedan,Iran
	Abstract
Atif Ali	This presentation summarizes key aspects of the interdisciplinary approach to implant or non implant-based treatment in fully edentulous patients . Measures of success generally include implant integration and health of the surrounding periodontal tissues; in the fully edentulous patients function is the greatest issue for dentist, aesthetics must also be measured as a patient first demand. A successful team approach to treatment mandates that the periodontist have a clear understanding of what is expected in terms of the restorative result, including the restorative materials that will be used, as implant position or teeth alignment can significantly impact this. Equally important, the restoring dentist must understand the surgical treatment options and the procedural limitations in terms of tissue regeneration and implant placement . The goal of this presentation is to sensitize the participant to the changing treatment concepts and methodologies used today in both the surgical and restorative phases of edentulous treatment. The principle areas of treatment explored include: emerging hard tissue management of procedures and materials; enhancing the gingival biotype and gingival volume; implant placement space management and restoration strategies that may impact soft and hard tissue stability; and the impact of implant and abutment designs on hard- and soft-tissue volume and post-restoration stability.
GICICHLSR1706060	application of Acacia bark extract cream
	Atif Ali Department of Pharmacy, COMSATS Institute of Information Technology, Abbottabad, 22060, Pakistan.
	Naveed Akhtar Department of Pharmacy, Faculty of Pharmacy and Alternative Medicine, the
	Islamia University of Bahawalpur, Bahawalpur- Pakistan
	Hira Khan
	Department of Pharmaceutical Sciences, Abbottabad University of Science and Technolgy, Havelian- Abbottabad, Pakistan.
	Abstract

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RupamDebnath GICICHLSR1706061	The barrier function of skin is distraught by several external aspects and human skin retains its form and role by equilibrium between water content of Stratum corneum (SC) and surface lipids. The aim of the study was to carry out quantitative Stratum corneum water content and trans-epidermal water loss evaluation after application of Acacia bark extract cream on long term treatment of skin barrier function. 3% hydro-ethanolic extract of Acacia bark formulated into an active cream versus base which served as control; were consumed in single blinded study two times in a day (morning and evening) on male human cheeks till 12th week. The instrumental measurements were made under a draught-free room, with controlled temperature (18.0–20.6°C) and relative humidity (55–65%) with corneometer and TEWA meter. The mean hydration values and TEWL values on human checks before application of active cream were found to be 34.88 and 21.29, respectively. At the end of study, the mean hydration values and the TEWL values on human cheeks after application of active cream were found to be 41.26 and 17.12, respectively. There was significant increase in skin hydration and decrease in skin TEWL achieved when applied ANOVA. This study indicated that active cream on long term treatment improved the skin barrier ability and could be used for topical treatment of atopic dermatitis. Keywords: Acacia Nilotica, skin hydration, Trans Epidermal Water Loss, Skin Barrier function Phytochemicals, antioxidant and antibacterial properties of lichens from North East India
	RupamDebnath Department of Ecology and Environmental Science, Assam University, Silchar, Assam- 788011, India
	Jayashree Rout Department of Ecology and Environmental Science, Assam University, Silchar, Assam- 788011, India
	D.K.Upreti Lichenology Laboratory, National Botanical Research Institute, Rana Pratap Marg Lucknow-226001, India
	ABSTRACT Lichens are being used from long ages as traditional medicines. The lichens could have activity against various diseases. DPPH radical scavenging activity of the lichens was done using reference compound ascorbic acid. Iron chelation of the lichen was done in respect to standard EDTA on ferrozine-Fe2+complex formation. The statistical analysis was done using Kyplot Beta Version 2.0. Antimicrobial activity was analyzed against a gram positive bacterial strain Staphylococcus aureous and a gram negative bacterial strain Echerechia coli. Acrosyphussphaerophoides and DirinariaConsimilis showed good DPPH scavenging activity of 76.51% and 65% in respect to standard ascorbic acid 87.23% at100 µg/ml. where a moderate iron chelation was observed during the analysis. The above mentioned lichen extract give positive antibacterial result against gram positive bacterial strain Staphylococcus aureous with a clear zone of 1.2cm and 1.3cm respectively.

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	Keywords: Antioxidant, himalayan lichen, DPPH, iron chelation
ShyfanyKrismarestuti GICICHLSR1706062	AMOBA Application of Mother and Baby as Maternal Education During Pregnancy up to Two Years Old
	ShyfanyKrismarestuti
	Department of Health Service, Vocational Collage
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	Savitri Citra Budi
	Department of Health Service, Vocational Collage, UniversitasGadjahMada, Yogyakarta, Indonesia
	ABSTRACT
	Introduction. Maternal and infant health is matter of concern in Indonesia l reducing maternal mortality. In an effort to emphasize the mortality rate an the improvement of maternal and child health, is needed innovation in the for
	of information technology as means of education for pregnant women. Aims. Creating innovation in form of information technology aims as one for
	of innovation for educational facilities in an effort to reduce maternal mortali and improve maternal and child health.
	Method. This research used descriptive qualitative research wi
	phenomenological approach. Subjects in the study were Head of PuskesmasJet Yogyakarta, 37 health cadres, 45 mothers including pregnant women and ne mothers. Sampling is done by interview and observation. For data validation v
	used source triangulation. Results. AMOBA Application of Mother and Baby is one form of innovation
	that can be used as a means of education of mother and child health that can be
	used on android smart phone. We made cooperation wi PuskesmasJetisYogyakarta to assist in AMOBA socialization.
	This Application gets good response from the Head of PusesmasJet
	Yogyakarta, health cadres, and the community as users. Therefore, the publ gets education so that the maternal mortality rate is reduced and the matern
	and child health status increases. Conclusion. Application of Mother and Baby is the latest innovation that can l
	used as an educative means of mother and child, to increase knowledge abo mother and child health and can suppress maternal mortality rate
	PuskesmasJetis Yogyakarta. Keywords. AMOBA, Mother and Baby health, Maternal education

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•	Fish waste fermented and bacterial cellulose hybrid scaffold production for improved biomedical application
FazliSubhan	Fazli Subhan Department of Microbiology SMME National University of Sciences and Technology , Islamabad, Pakistan
GICICHLSR1706 066	Isfahan Tausee Department of Zoology SMME National University of Sciences and Technology Islamabad, Pakistan
	Atta Ur Rehman Department of Biomedical Engineering SMME National University of Sciences and Technology , Islamabad, Pakistan
	Adeeb Shehzad Department of Biomedical Engineering SMME National University of Sciences and Technology , Islamabad, Pakistan
	Abstract: Cellulose is the most abundant polymer on earth and applied in a various fiel of industries. The bacterial cellulose are considered the most attractive due it high level purity and easily modified nature. The second most important targe in biomedical and food industries are collagen and especially the collagen of fis waste industries. The novel point of thisstudy are the application of Bacillu species and Acetobacterxylinum for fermentation of fishes waste for th production of modified bacterial cellulose in a natural process. The existin discovery narrates to a unique collagen production method where the Bacillu species and Acetobacterxylinum bacteria used to ferment the collager containing tissues of fishes waste for the extraction of collagen as well a collagen containing modified bacterial cellulose. This study also include th collagen containing bacterial cellulose application for skin regeneration an biosafety. We hope that the novel creativity not only minimize the cost an effort of collagen extract, bacterial food consumption but will also produce naturally modified bacterial cellulose for improved skin regeneration an biosafety.
Prof.Dr. Gamal El- Baroty GICICHLSR1706067	Key words: Fishes, Fermentation, Bacterial cellulose, Biomedical, Production of food ingredient from Spirulina platensismicroalgae and its anticancer and antioxidant properties
	Gamal S. El Baroty Biochemistry Department of, Faculty of Agriculture, Cairo University, Cairo, Egypt
	Hanaa H. AbdEl Baky Plant Biochemistry Department, National Research Centre, Dokki, Cairo, Egyp
	Abstract: Microalgae have recently aroused considerable interest due to its capacity t produce a large amount of the bioactive food ingredients when grown under

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	variety of environmental and nutrient stresses in conditions. Spirulina platensis SP grow in defining growth nutrient conditions (changes nitrogen, sulfur and phosphate concentrations in nutrient growth medium) to the total lipid and pigment or steroids accumulation. The most potent condition was chosen for cultivation of microalgae at large scales conditions in 400 liter photo-bioreactor (PBR) to obtained high biomass containing high amounts of bioactive compounds. Spirulina grow in micronutrient limitation (nitrogen N, sulfur S and phosphate P concentrations in nutrient growth medium) accumulated high yield of lipid, pigment and steroids compounds. Under large scale condition, Spirulina growincombined limitation of P, S and N in 400 liter photo-bioreactor had a high yield of biomasses containing a large quantity of total lipid and steroids. These compounds exhibited a scavenging radical's activity toward DPPH, ASTP and 'OH radicals with IC ₅₀ values of 25.73, 15.24 and 21.11 μ g/ml, respectively. Moreover, these compounds exhibited in vitro inhibition of proliferation of human cancer cell lines: MCF-7, Hep-G2 and HCT-116, with IC ₅₀ values ranged from 5.49 to 11.42 μ g/ml. Thus, Spirulina could be used as a source of nutraceutical ingredients for production of functional. Keywords: Spirulina, food ingredient, anticancer, antioxidant
	Computational Studies of Enzymes and Enzyme-like Inorganic Systems Hajime Hirao Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, China
	Abstract
Hajime Hirao GICICHLSR1706055	We use computational chemistry techniques such ash quantum chemistry, multiscale QM/MM and QM/QM approaches, and many other advanced computational chemistry techniques to study biological (metallo)enzymes. Despite the complexity of biological systems, we show that computational chemistry is capable of providing valuable atomic-level insights into their chemical reactions. By applying computational chemistry techniques to other non-biological systems, we are also trying to understand the differences between biological and non-biological systems. In addition to applying computational chemistry to specific problems, we are developing efficient computational methods and algorithms, in the hope that our new computational methods will expand the capability of computational chemistry and thereby enable one to simulate the behavior of complex molecular systems with higher reliability and predictability in the future.
Andrew Octavian Sasmita GICICHLSR1706056	Investigating Anti-neuroinflammatory Mechanism of Madecassoside in Lipopolysaccharide-induced BV2 Microglia Cells
GIUIUHLSKI/00056	Andrew Octavian Sasmita International Medical University, 126, JlnJalil Perkasa 19, Bukit Jalil, 57000 Bukit Jalil, Wilayah Persekutuan Kuala Lumpur, Malaysia.
	RhunYianKoh International Medical University, 126, JlnJalil Perkasa 19, Bukit Jalil, 57000 Bukit Jalil, Wilayah Persekutuan Kuala Lumpur, Malaysia.

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	Ying Pei Wong
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	Bukit Jalil, Wilayah Persekutuan Kuala Lumpur, Malaysia.
	Anna Pick Kiong Ling
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	Bukit Jalil, Wilayah Persekutuan Kuala Lumpur, Malaysia.
	Abstract
	Neurodegeneration is often preceded by neuroinflammation generated by the
	nervous system to protect itself from tissue damage; but excess
	neuroinflammation might inadvertently cause more harm to surrounding
	tissues. Combating neuroinflammation with non-steroidal anti-inflammatory
	drugs (NSAIDs) has been proven to halt neurodegeneration, but this poses
	chronic side effects (e.g. stomach ulcers); thus, considering alternative agents as
	a remedy, madecassoside, a triterpene derived from Centellaasiatica, is
	investigated. This study utilized BV2 microglia which were pre-treated with
	madecassoside at maximum non-toxic dose (MNTD) (9.5 μ g/mL) and ½ MNTD (4.75 μ g/mL) for 3 hours followed by 0.1 μ g/mL of linearly sector densities (LPS)
	(4.75 µg/mL) for 3 hours followed by 0.1 µg/mL of lipopolysaccharide (LPS) stimulation. Anti-neuroinflammatory properties of madecassoside were firstly
	assessed through reactive oxygen species (ROS) levels determination. Similarly,
	expression of pro- and anti-neuroinflammatory genes and proteins were
	analysed through real-time polymerase chain reaction (qPCR) and Western
	Blot, respectively. ROS levels in madecassoside treated cells were significantly
	reduced compared to LPS-treated cells alone. Pro-neuroinflammatory genes,
	namely iNOS, COX-2, STAT1, and NF-kB, analysed via qPCR also showed
	significant downregulation upon treatment with madecassoside in a dose-
	independent manner. Contrarily, the anti-neuroinflammatory HO-1, showed
	significant upregulation of 175.22% at MNTD treated group as compared to
	LPS-treated cells alone. Gene expression profiles were also analysed to be
	consistent to the Western Blot analysis. The findings of this study thus suggest
	that madecassoside has a wide potential on being a potent anti-
	neuroinflammatory agent. Its known antioxidative properties which play a
	major role in anti-neuroinflammation makes it a very interesting compound to
	study further in vivo or subsequent molecular studies.
	Keywords: Centellaasiatica, Cyclooxygenase, Heme oxygenase 1,
	Madecassoside, Microglia, Neuroinflammation, Reactive oxygen species.
Mohamed Fathallh Mohamed Eida	Utilization of rice straw and sugarcane bagasse for biosynthesis of lipid by
GICICHLSR1706057	oleaginous fungi
UICICIILISINI / UUUS /	Ibushim E A
	Ibrahim, E.A. Central Research lab. Department, Co-Petrol com., Egypt
	Central Research lab. Department, Co-retroi com., Egypt
	Saad, S.M.M.
	Biochemistry Department, Faculty of Agricultural, Benha University, Egypt

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Abd El-Maksoud, H.K. Agricultural Microbiology Department, National Research Center, Egypt

Abd El-Rahman, A.A.

Biochemistry Department, Faculty of Agricultural, Benha University, Egypt

Abstract:

Lipids producing microorganisms utilizing waste materials is important for biodiesel production and reducing waste accumulation. This work aimed at utilization and evaluation of some waste degrading fungi for production and evaluation of lipid as feedstock for biodiesel.

Twelve fungal isolated were selected amongst 40 isolates which was previously isolated, morphologically identified and evaluated for waste degradation ability. It was examined for biomass production and lipid accumulation capability through fermentation of rice straw and sugarcane bagasse. Four isolates were selected for growth optimization towards C/N ratio, pH value and incubation period according their lipid yield. In batch experiment, the selected isolates were cultured for 30 days for lipids production. The produced lipids were extracted and evaluated. To identify the selected isolates, the ITS region of fungal rRNA was amplified and sequenced.

Four fungal isolates were characterized as highly potent biomass and lipid producers. These isolates were nrc12, nrc14, nrc19 and nrc40 which showed high lipid accumulation percentage "35.17, 32.19, 22.97 and 22.28, respectively". were identified as Aspergillusterreus, These isolates Trichoderma harizianum,Fusariumoxysporum and Penicillium palitanans, respectively. When grown on rice straw (Rc) and sugarcane bagasse (Sb), F.oxysporumand P. palitanans showed the highest lipid yield at different C/N ratios, respectively. At different pH values, isolates grown on Sb accumulated higher lipid yield compared to Rc. Increasing the incubation period raised the lipid production. The highest lipid yield was recorded for A.terreus(2.2 g/l) followed by F. oxysporum(1.89 g/l) after 24 days when grown on Rc and Sb, correspondingly. In batch experiment, F.oxysporum displayed the highest biomass (4.08 g/l), lipid content (1.35g/l) and lipid percentage (33.19 g/l). The fatty acids profile analysis by GC exhibited high presence of C16-18 fatty acids as main parameters for biodiesel production which constituents varied according to fungi isolate.

Lignocellulolytic oleaginous fungi could be efficient source for biodiesel production. Aspergillusterreus, Trichoderma harizianum,Fusariumoxysporum and Penicillium palitanansare competent candidates for utilizing organic wastes for biodiesel production.

Keywords: microbial lipids, oleaginous fungi, rice straw, bagasse, growth optimization.

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	ArthrospiraAsparaginase: Storage, and biological activities
	Hanaa H. AbdEl Baky
	Plant Biochemistry Department, National Research Centre, Egypt
	Gamal S. El Baroty
	Biochemistry Department of, Faculty of Agriculture, Cairo University, Cairo, Egypt
Dr.HanaaAbd El Baky	Abstract: L-Asparaginase has been widely used as a food ingredient in thermally
GICICHLSR1706	processed food and as a therapeutic agent in the treatment of certain human
058	cancers. L-Asparaginase produced fromArthrospira (S. maxima) were
	immobilized on natural polymers such as agar cake beads, agarose pieces and
	gelatin blocks agar, agarose and calcium alginate in order to physica
	entrapment techniques were determined. It was found the tested biopolymer
	had the ability to produce the immobilized S. maxima enzyme L-Asparaginase
	with various efficiency degree. The highest immobilized activity and highes immobilization yield were obtained with agar cakes bead, which will
	consequently, reduce both the enzyme and the product costs.
	The native S. maxima L-asparaginase showed a good antiviral activity
	against Coxsackie B3 Virus in a dose dependent manner with an IC ₅₀ of 17.0
	μ g/ml The action mode of this effect is presumably due to their capability of
	inhibiting attachment and blocking the adsorption and penetration events of th
	viral replication cycle with 89.24%, 72.78% and 72.78%, respectively. In Human cancer cell line including lung carcinoma A 549, hepatocellular
	carcinoma cells Hep-G2 and prostate carcinoma PC3 the antiproliferative
	effects of native L-asparaginase were observed as assessed by MTT cell viability
	assay. The IC ₅₀ values of asparaginase were found to be 22.54, 24.65 and 56.6
	μ g/ml for Hep-G2> PC3> A 549, respectively. For the first time, an L
	asparaginase from S. maxima was evaluated as an antitumor agent in human
	cell lines and further investigations should be conducted to improve the S maxima enzyme.
	Availability of life support equipment and its utilization by driver of ambulance
	linked to BPKIHS, Dharan
100	Acharya R,
	Badhu A.
	Community Health Nursing, College of Nursing B.P.Koirala Institute of Health
GA IT	Sciences, Dharan, Nepal Dharan , Nepal
	ABSTRACT
AngurBadhu	Background and Objective: An effective ambulance is a vital requiremen
GICICNM1706053	forproviding an emergency medical service. Well-equipped ambulances with
	trainedparamedics can save many lives during the golden hours of trauma care
	The objectivewas to document the availability and utilization of basic life
	support equipment in theambulances and to assess knowledge on first aid
	among the ambulance driver. Materials and Methods: Descriptive design was used for the study
	Purposivesampling method was used and a total of 109 ambulance linked to
	BPKIHS wereenrolled in the study. Self- constructed observation checklist and

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	semi structuredinterview schedule was used to assess the availability of equipment and knowledge onfirst-aid. Results: The study revealed that more than half of the respondents had less than
	fiveyears of experience and were not trained in first aid. About two-third
	(64.2%) of therespondents had adequate knowledge on first aid. About 90% of
	the ambulance hadoxygen cylinder and adult oxygen mask. The other
	equipment available were nasalcatheter, I/V stand and stretcher cum bed.
	Among them oxygen cylinder and oxygenmask were usually used equipment.
	Just more than half (53.2%) of ambulance hadequipment less than 23% as
	compared to that of required for basic life support. There
	was significant association of knowledge with the experience $(p = 0.004)$ and
	training(p = 0.001). There was significant association of availability with
	training received ($p=0.007$), district ($p=0.023$) and organization ($p=0.032$) in
	which the ambulance is
	Registered.Conclusion: The study concludes that maximum ambulance linked to
	BPKIHS,Nepal did not have even one fourth of the equipment for basic life
	support. Theequipment usually used was oxygen cylinder and oxygen mask.
	Majority of driverhad adequate knowledge on first aid and it was associated
	with training and experience.
	Key Words: Availability, Utilization, Knowledge
	Nurses' self-awareness from group dialogue: A qualitative study
	Yun-Hsuan Lin
1-11 (Lecturer, Department of Nursing, Ching Kuo Institute of Management and
	Health, & Doctoral Candidate, School of Nursing, National Yang-Ming
	University, Taiwan
Yun-Hsuan Lin	
GICICNM1706055	Chiu-Mieh Huang
	Professor, Institute of Clinical Nursing, National Yang-Ming University, &
	Supervisor, Department of Nursing, National Yang-Ming University Hospital,
	Taiwan
	Abstract
	Self-awareness can help nurses increase their concern for patients and perceive
	the patients' real needs. Conversely, group dialogues help learners engage in
	self-exploration as well as facilitate their diversified and deep thinking.
	Therefore, group discussions have been viewed as a feasible nursing education
	strategy. The purpose of this study was to explore and analyze the development of self-awareness among nurses through group activities. Using a descriptive
	and qualitative research design, data were collected at 13 sessions of 90-minute
	unstructured group meetings from October 2014 to January 2015. The group
	activity process was audio-recorded and transcribed, and the transcripts were
	further examined through content analysis. The major research findings were as
	follows: 1. the development of self-awareness includes the three stages, namely
	mirror reaction, resonance, and awareness; 2. self-awareness includes: (1) a self
	developed according to othersthrough gaining others' recognition
	and being mindful of others' opinions, and (2) a true self developed through
	seeing oneself and looking inside oneself. The results of this study can serve as
	referential information for nursing education to elevate nurses' self-awareness.
Ram Sharan Mehta	Assessment of Factors Contributing to Phlebitis among the Patients admitted in

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GICICNM1706056	Medical-Surgical Units of BPKIHS
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	Abstract
	 Background and Objectives: Phlebitis, an inflammation of the tunica intima of vein by mechanical, chemical or bacterial sources, is the main local complication associated with peripheral intravenous cannula and, occurs between 3.7% and 67.24% of patients. It causes significant pain; discomfort; failure and interruption to prescribed therapy; and requirement for new cannula insertion with associated increased equipment costs and staff time. Cannula related bacterial sepsis can jeopardize patient's life. The main aims of this study are assess the contributing factors of phlebitis among admitted patients in Medica Surgical Units of BPKIHS and to find out the association between selected variables and phlebitis. Materials and Methods: Descriptive cross-sectional design was adopted to the section of the sec
	conduct the study among 120 admitted patients with cannula having phlebitis i Medical-Surgical Units of BPKIHS. Data was collected from December to January 2016 for 4 weeks using interview questionnaire and observation checklist and later analyzed using descriptive (mean and standard deviation and inferential (Chi-Square Test) statistics using SPSS 16 version.
	Results: Mostly (45.8%) moderate phlebitis was observed followed by mil (39.2%) and severe (15%) in the subjects. Most of the subjects (47.5%) were between age group 30-60 years with more than 7 days of hospitalization (80.8%). Most of them had 20G cannula (76.7%); inserted in wrist (49.2%); fir insertion (33.3%); successful in first attempt (83.3%); in ward (78.3%); the Nurses (97.5%); under antibiotics (90.8%) and intermittent infusion (55.8%) Significant association was found between age, Residence, ethnicity, body weigh and phlebitis.
	Conclusion: Considerable moderate and severe phlebitis in the study subjec are crucial findings. It can be concluded that phlebitis is independent of cannut and infusion related contributing factors.
Henri Setiawan	Key Words: Contributing factors, Phlebitis, Patient
GICICNM1706058	GENETIC COUNSELING REDUCES THE LEVEL OF DEPRESSION ON PARENTS OF CHILDREN WITH THALASSEMIA MAJOR

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	ABSTRACT
	Thalassemia major disease is a chronic disease that the prevalence is always
	increasing in Indonesia from 3,653 cases in 2006 to 5,501 cases in 2011. Besides
	having an impact to the patient's health physically, thalassemia major also gives
	psychological impact such as depression in parents of the patients with
	thalassemia major. One attempt to suppress the psychological impact o
	thalassemia major is by giving genetic counseling to the patients and parents
	This research used quasi-experimental with pretest-posttest group design. The
	parents were given genetic counseling treatment and the measurement of the
	depression level was conducted before and after the treatment was given. Beel
	Depression Inventory (BDI) II was used to measure the level of depression
	Wilcoxon test was used to determine the changes of the depression level, while
	the statistical test of Paired Sample Tests was used to assess the depression
	scores before and after the treatment. From a population of patients with
	thalassemia major, as many as 44 parents fulfilled the inclusion criteria a
	respondents. The majority of respondents (65.91%) experienced a positive
	change in the decrease of depression level after taking genetic counseling
	(Meanpre = 16.31; Meanpost = 11.50; p <0.05). For parents of children with
	thalassemia major, genetic counseling can reduce the level of depression.
	Keywords: Thalasemia major, depression, genetic counseling
Mangala Shrestha	Perceived Risk Behaviors and Barriers to Utilization of Sexual and
GICIČNM1706051	Reproductive Health (SRH) Services among Female Higher secondary school
	Students of Biratnagar Sub- Metropolitian City
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	Abstract
	Background: Adolescents and young adults (15–24 years old) make up only 25%
	of the sexually active population, but represent almost 50% of all new acquired
	STIs while theutilization of SRH services in Nepal is among the least (33%
	among the countries in Asia. The SDG aims at providing universal access to
	sexual and reproductive health care services; the utilization of which in turn
	depends on the perception of the individual towards the healthservices.
	Objectives: To assess the perception regarding risk behaviors and barriers to
	utilization ofsexual and reproductive health services among female highe
	secondary school students of Biratnagar Sub- Metropolitian City.
	Methods: A descriptive cross-sectional study adopting Mixed Method with
	Michibus, A descriptive cross-sectional study adopting mixed method with
	Triangulation ofdata was used to collect data among the female highe

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	Result: The mean score of correct identification of risk behavior for STI was
	7.31 of the total10. The respondents reported Disagreement with the provision of youth friendly sexual andreproductive health services (aggregate mean score is
	3.48). The major barriers to utilization of Sexual and Reproductive Health Services expressed by the adolescents were being
	ashamed/ afraid to share problem, afraid to meet someone they know at the health facility, nofeasibility of time, perception of inefficient health personnel, behaviors of health personnel, lack of adequate information about sexual and reproductive health, diseases and services
	available. Conclusion: There is a call for action to the stakeholders and health personnel
	from the massof female youth of eastern Nepal for the delivery of respectful
	efficient, resourceful, flexibleand peer-based sexual and reproductive health services in youth-friendly environment.
	Key words: Adolescents, Risk behaviors, STI, Sexual and Reproductive Health Services, Barriers to utilization.
\frown	Prevalence of Low Back Pain and Associated Factors among Nurses Working at BPKIHS DHARAN,NEPAL
10 m	Regmi B
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Regmi B GICICNM1706054	Abstract
GICICINIMI /00054	Background: Nursing is an occupation associated with high risk of developing
	low back pain (LBP) due to their nature of work practices. Modifiable persona
	factors, work characteristics and psychosocial factors which contribute to LBI
	have proven difficult to identify Objectives: To assess the prevalence of LBP and the associated factors among nurses working BPKIHS.
	Methods: A descriptive cross sectional study was conducted involving 24 nurses working (BPKIHS) between 22nd December 2013-18th January 2014
	They were sampled using Clustered Random Sampling technique. A pretested semi-structured self-administered questionnaire was used. Data were analyzed using descriptive and inferential statistics at 0.05 level of significance. Results: The prevalence of LBP, current prevalence and the prevalence o
	chronic LBP was 46.5%, 50.9% and 25.9% respectively. More than three-fourth (78.6%) of the respondents perceived their LBP as work-related. Factors that showed significant association with LBP were Body Mass Index of the respondents, heavy lifting household chores, regular exercises, years of working the second seco
	experience, perceived mental stress in work, workload and job satisfaction Logistic regression analysis indicated that age of the respondents and heavy
	lifting household chores were significant predicting factors whereas regular exercise and carrying heavy loads in work were significant protective factors for
	LBP after adjusting other factors. Conclusion: The prevalence of low back pain among nurses in BPKIHS wa
	high even though they comprise a very young workforce. Many risk factors were identified that would necessitate multidisciplinary involvement to reduce the

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	Key words: Low back pain, prevalence, nurses.
Hanna Lee	Risk of Breastfeeding Cessation among Mothers in Korea: A Survival Analysis
GICICNM1706059	
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	Abstract
	Objectives: The aim of this study was to identify risk factors for discontinuing breastfeeding among mothers in Korea.
	Methodology: The multivariate model for predicting the discontinuation of
	breastfeeding and adjusted Kaplan-Meier survival curves were used. The subjects of this study were 935 mothers who were surveyed in the fifth National Health and Nutrition Survey.
	Findings: First, of the 935 participants, 642(67.0%) discontinued breastfeeding
	within the first 12 months. Second, survival curves showed significant
	differences in breastfeeding cessation rates for the infant's weight (p=.029) and
	gestational age (p=.026). Breastfeeding cessation rates were lower for mothers
	whose infants weighed below 2.5 kg. The average and median times estimated
	for breastfeeding were 5.9(3.0) and 8.6(9.0), respectively. For children below 37
	weeks of gestational age, the breastfeeding was for a shorter duration than over
	37 weeks of gestational age group. For this group, the average and median times estimated for breastfeeding were $5.3(3.0)$ and $8.6(9.0)$, respectively. Finally, the reasons for discontinuing breastfeeding were breast milk deficiency (62.29% , 403 energy) and eccumpation (10.2% , (6 energy).
	403 cases) and occupation (10.2%, 66 cases).
	Research Outcomes: Mothers who have premature infants often stop breastfeeding earlier than mothers who have full-term infants. The results suggest that education and support are needed for mothers who have premature infants. The results of our study are supported to purcise here information for
	infants. The results of our study are expected to provide basic information for the development of meaningful breastfeeding programs for mothers.
	Future Scope: Future research is needed to identify the factors that affect
	premature infant breastfeeding.
	Key words: Breastfeeding, Infant, Mother, Survival analysis
Prof.Dr. Gamal El-Baroty	Production of food ingredient from Spirulina platensis microalgae and its
GICICHLSR1706067	anticancer and antioxidant properties
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	ABSTRACT

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Microalgae have recently aroused considerable interest due to its capacity to
produce a large amount of the bioactive food ingredients when grown under a
variety of environmental and nutrient stresses in conditions. Spirulina platensis
SP grow in defining growth nutrient conditions (changes nitrogen, sulfur and
phosphate concentrations in nutrient growth medium) to the total lipid and
pigment or steroids accumulation. The most potent condition was chosen for
cultivation of microalgae at large scales conditions in 400 liter photo-bioreactor
(PBR) to obtained high biomass containing high amounts of bioactive
compounds.
Spirulina grow in micronutrient limitation (nitrogen N, sulfur S and phosphate
P concentrations in nutrient growth medium) accumulated high yield of lipid,
pigment and steroids compounds. Under large scale condition, Spirulina grow in
combined limitation of P, S and N in 400 liter photo-bioreactor had a high yield
of biomasses containing a large quantity of total lipid and steroids. These
compounds exhibited a scavenging radical's activity toward DPPH, ASTP and
.OH radicals with IC50 values of 25.73, 15.24 and 21.11 µg/ml, respectively.
Moreover, these compounds exhibited in vitro inhibition of proliferation of
human cancer cell lines: MCF-7, Hep-G2 and HCT-116, with IC50 values
ranged from 5.49 to 11.42 µg/ml. Thus, Spirulina could be used as a source of
nutraceutical ingredients for production of functional.
Keywords: Spirulina, food ingredient, anticancer, antioxidant.

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