







Thursday March 22, 2012		
12:00 – 14:30		Registration (Exam Hall Hall I)
14:30 – 15:30		Opening ceremony
15:30 – 16:30		Panel Discussion on Science Education /
		Semi-plenary Session A
16:30 – 17:00		Coffee Break
17:00 – 18:30		Parallel Sessions 1
18:30 – 19:00		Coffee Break
19:00 – 20:30		Parallel Sessions 2

Friday March 23, 2012		
9:00-10:00 a.m	Semi-Plenary Sessions B	
10:00-10:30 a.m	Coffee Break	
10:30-12:00	Parallel Sessions 3	
12:00-14:00	Lunch	
14:00-15:00	Semi-Plenary Session C	
15:15-16:40	Parallel Sessions 4	
16:45-17:15	Coffee Break	
17:15-18:45	Parallel Sessions 5	
20:30	Conference Dinner	

Saturday March 24, 2012		
9:30-11:00 a.m	Parallel Sessions 6	
11:00-11:30 a.m	Coffee Break	
11:30-13:00	Parallel Sessions 7	
13:00-14:30	Lunch	
14:30-15:30	Closing Ceremony	



Lebanese Association for the Advancement of Science

LAAS: Excellence in Science Award 2012

The Lebanese Association for Advancement of Science, established in 1968, has introduced for the past 4 years an **Excellence in Science Award** recognizing each year a scholar, on competitive basis, with an excellent and distinguished research career and significant accomplishments, someone who made very significant contributions to the advancement of science.

The award is normally distributed during the annual scientific meeting of the Association. This year the 18th International Science meeting will be between March 22 and 24, 2012 at the Notre Dame University.

The winner of the award is selected by a committee of scholars with established and well recognized international and research records.

This year, fourteen (14) scientists were nominated from the various scientific fields. Their curriculum Vitae as provided and documented in the respective data bases, were reviewed thoroughly and voted upon. This year, it was noted that the number of women scientists nominated increased to 40%.

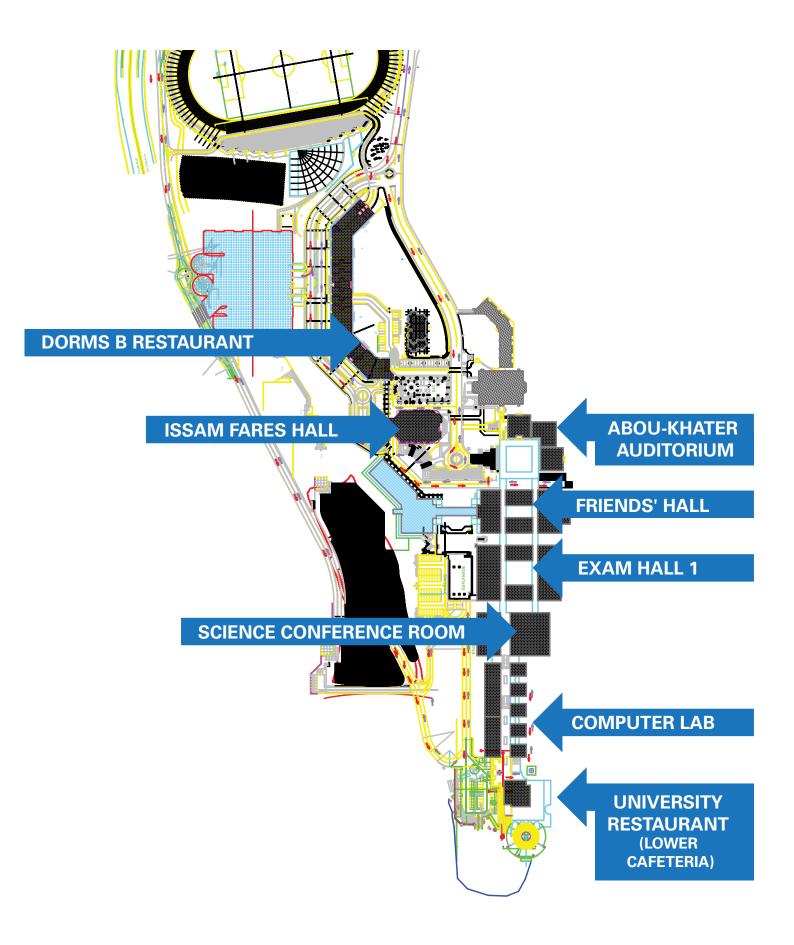
After undergoing the proper procedure of selection, it gives us a great pleasure to announce the winners of this year.

- 1. The first winner is **Dr. SAMIA KHOURY MD (1984), American University of Beirut**, professor of neurology and director of the Neuroscience institute. She is the first woman scientist to be granted this Award by LAAS.
- 2. The second winner is **Dr. KHALED MAKKOUK, PhD (1974) University of California** and a professor of Plant Pathology, a senior scientist and a researcher at the Lebanese National Research Council.

The president and the members of the board of the Lebanese Association for Advancement of Science extend their warm congratulations to the two winners, wishing them continuous success and productivity.

Abdo R. Jurjus President





Opening Ceremony Schedule

- 1. Mrs. Nada Saad, Master of Ceremony
- 2. Miss Jocelyne Issa, (Sponsor's Office)
- 3. **Dr. George M. Eid**, Conference's Chairperson
- 4. **Dr. Abdo Jurjus**, President of LAAS
- 6. **Pr. Mouein Hamze**, Secretary General, CNRS
- 7. Fr. Walid Moussa, NDU President
- 8. His Excellency, **Professor Hassan Diab**, Minister of Education and Higher Education.

LAAS Excellence in Science Award 2012

Panel Discussion – Thursday March 22, 2012 from 15:30 to 16:30 – Issam Fares Hall, NDU

Panel Discussion on Science Education

Participants:

- Dr. Ahmad Jammal: General Director of Higher Education in the Ministry of Education and Higher Education
- Mr. Fadi Yarak: General Director of Education in the Ministry of Education and Higher Education

Moderator:

- **Dr. Rita El-Meouchy**: Assistant Professor: Education of English Language, Faculty of Humanities, Notre Dame University - Louaize

NOTES

- The poster session, coffee breaks, and registration will be in Exam Hall 1 (Conference Business Center)
- Lunches on Friday and Saturday will be served in Dorms B-Restaurant (Upper campus)
- Conference Dinner will be held in the University Restaurant (Lower Cafeteria)
- Certificate of Attendance will be available in the Conference Business Center starting Friday at 2:00pm

Cross-talk between oxysterol and Wnt pathway in Myelination : new therapeutic avenues for myelin pathologies

Charbel MASSAAD, Ph.D.

Dean of the Faculty of Biomedical Sciences
Director of « Unité de Formation et de Recherche Biomédicale »
Centre d'Etude de la Sensorimotricité
University Paris Descartes

Abstract

Myelin is essential for the rapid conduction of axonal impulses. Myelination, elicited in the central nervous system by oligodendrocytes and in peripheral nerves by Schwann cells, is a complex and fine-tuned process. Central and Peripheral myelin gene expression (PLP, MBP, MPZ, PMP22) is tightly regulated. Demyelinating diseases (Multiple Sclerosis, Charcot-Marie-Tooth Disease) or peripheral nerve injuries are frequent, and the functional outcomes are often not satisfactory. Demyelination can occur as a result of neuronal or glial cell injury and is usually accompanied or followed by axonal degeneration. Our aim is to identify new signalling pathways that govern myelination process. We have identified Wnt/beta catenin (Tawk et al, Journal of Neuroscience, 2011) and Oxysterol pathways (Makoukji et al, Journal of Neuroscience, 2011) as major regulators of myelination. We have used those findings to develop new strategies based on the modulation of Wnt pathway by the mood stabilizer, Lithium, in order to treat myelin injuries (Makoukji et al, PNAS, 2012).

From Medical Informatics to Health Informatics: Past, Present and Future of Health Information Science

Konstantinos Danas, Ph.D.

Senior Lecturer - Health Informatics School of Computing and Information Systems Faculty of Science, Engineering and Computing Kingston University London

Abstract

The domain of medical informatics has been developed as an intersection of computer or information technology science and health care and medicine. Early medical informatics applications used to support specific medical tasks. Contemporary health informatics applications are based on systems integration and support the health and well being of individuals. The vision that the Electronic Health record (EHR) when implemented will proactively support each individual's health has attracted excitement and interest for investments. Indeed, the benefits of the application of the EHR have been widely acknowledged. However, that vision has not yet been achieved. It is therefore a challenge for health information scientists to provide their contributions and expand the frontiers of research in order to provide the scientific background and the foundations for the application of the EHR.

Semi-Plenary Session B.2: Friday March 23, 2012 from 9:00 to 10:00 - Friends' Hall

Human Dental Pulp Cell Apoptosis: Immunohistochemical Study

Angelo Leone, DDS

Sezione di Istologia ed Embriologia BioNec Facoltà di Medicina e Chirurgia- Palermo- Italy

Abstract

Background: In apoptosis or programmed cell death, the cells use a specialized cellular machinery, and a series of biochemical events that lead to fragmentation and death. Defective apoptotic processes have been implicated in an extensive variety of diseases from atrophy to cancer.

Aim: The aim of this study is to evaluate apoptosis during orthodontic treatment (OT) through the expression of the proteins Caspase-3, and -9, Tunnel and HSP60.

Materials and methods: Human dental pulps were extracted from male and female patients (N=20; age 10-14years). The technique used was the Straight Wire, which involves Nickel-Titanium or Steel archwires. The increase of pressure applied on the teeth was gradual. Some patients were subjected to a premolar extraction after 3, 6 and 18 months of orthodontic treatment. Samples were fixed in 10% buffered formalin, paraffin-embedded, and processed for immunohistochemistry using anti-caspase-3,-9 antibody, and anti-HSP60 and Tunnel.

Results: There was an increase of caspases -3,-9 expression. It occurred proportionally to the time of orthodontic treatment. In control pulps samples, pulps which have not undergone any orthodontic traction, positivity was detected mainly at the odontoblasts level. HSP60 was not expressed in control specimens and was very weak in 3 month orthodontic treatment samples. However, it was strongly detected in 6 and 18 months O.T. samples. The expression of Tunnel was evident in all samples, it increased after 3 months of orthodontic traction.

Conclusion: Apoptosis increased after orthodontic fraction. There was an expression of caspases-3,-9, HSP60 and Tunnel after 3, 6 and 18 months of orthodontic traction revealing a time-dependent relationship.

Research in the 21-st Century

Ara Tahmassian, Ph.D.

Associate Vice President for Research Compliance Boston University and Boston Medical Center

Abstract

Over the past two decades research has changed from a single topic based to an interdisciplinary model with scientists from various fields and countries participating in the research. This new approach to life sciences research has resulted in rapid advances in sciences and technology with major discoveries benefiting the society. At the same time, these advances and new discoveries have raised potential safety and ethical concerns which have resulted in new regulations and controls. One of the most common ways of enforcing these requirements is through funding agencies.

Many funding agencies have established general requirements that are often referred to as "Responsible Conduct of Research" (RCR) or "Ethical Conduct of Research" (ECR). These requirements have become conditions of providing research funding, regardless of whether or not there are National regulations in the recipient's country; and include requirements for financial management of grants, safety measures, biosecurity measures, ethical treatment of research subjects, ethical issues related to the research itself and dual use research of concern. Scientists participating in life sciences field must have an understanding of these issues and make sure that the research is conducted in a manner that minimizes the risk to those engaged in the research as well as the public and the environment. Establishment of basic controls will enable the scientists to minimize the risks while maximizing the benefits of the important research for global public health.

Semi-Plenary Session C.2: Friday March 23, 2012 from 14:00 to 15:00 - Friends' Hall

Nanomaterials and beyond: controlling interfaces and assemblies

Fabienne Gauffre, Ph.D.

Research Associate, CNRS Universite de Rennes 1, France

Abstract

The burst of nanomaterial science has led to the development of a wide variety of materials (quantum dots, carbon nanotubes, superparamagnetic nanoparticles...) with oustanding properties. In solution, the surface of these nanomaterials is rarely nude, but covered with a corona of organic matter, consisting of ligands, solvents and side products from the synthesis, or adsorbed from the dispersing media (buffer components, proteins from serum...).

We will first discuss the non specific adsorption of amphiphilic polymers driven by hydrophobic interaction onto the surface of hydrophilic gold nanoparticles.

Then, we will address the case of luminescent zinc oxyde nanoparticles. The emission properties of these particles are very sensitive to the coordination state of surface atoms (number and type of ligands). We investigated the "micelle encapsulation" strategy to control the solubility properties of these nanocrystals, without altering their luminescent properties.

Finally, we will present a new multifunctional platform (the "DNA-micelles"), consisting of nanospheres of DNA-polymers. Taking advantage of the DNA hybridization technology, this platform can encapsulate drugs and assemble nanoparticles.

Detailed Schedule

Thursday March 22, 2012				
17:00 - 18:30				
Session 1	Abou Khater Auditorium	Chair: Dr Karim Echtay	Biological & Medical Sciences: Immunology	
Caracterisatio	on de la inhibitation de la integras	e de VIH-1 par des anticorps Monoclonaux Anti-Helice I+4	Richard Maroun et al.	
Ceramide reg	gulates the translocation and phos	phorylation of PKCI	Rouba Hage Sleiman et al.	
he effects o	•	es and on the survival of murine models of bacterial and	Nabil Zeidan et al.	
		effect of Alum in mice Immunized with Ovalbumin	Nayla Al Akl et al.	
	ns in Interleukin-2 and Interleukin- f multiple sclerosis	7 receptor a-chain genes and human herpes virus-6 as	Layal Fayad et al.	
ession 2	Friends' Hall	Chair: Dr Pascal Damien	Engineering 1	
Vind-Solar E	nergy Fusion Based on Swarm Inte	lligence	Fakherdine Keyrouz	
	RONICS CMOS VLSI HYPERBOLIC T	TANGENT FUNCTION & ITS DERIVATIVE CIRCUITS FOR	Hussein Chible	
nalyses of t	he interaction tunnel-soil-structure	e	Fadi Hage Chehade	
oil Resistive	ety Structure and Its Implication on	the Pole Grid Resistance for Transmission Lines	Mohamad Nassereddine	
Nonlinear F	Filter for Accurate Estimation of At	titude for a VTOL UAV	Najib Metni	
RILLING OF	AERONAUTICAL STRUCTURES		Pierre Rahme	
Session 3	Science Conference Room	Chair: Dr Kamil Rahme	Chemistry 1	
he NEARLY	CONSTANT LOSS EFFECT In METAF	PHOSPHATE GLASSES	Layla Badr	
tudy of pote	ntial migrants from microwaveable	e plastic food packaging	Nathalie Estephan	
tudy of Antil	biotics-Loaded Poly(DL-lactide) Mi	crospheres	Dima Moussa	
	LE POLYMERS-GOLD NANOPARTIC	CLES HYBRIDS: SYNTHESIS, CHARACTERISATION AND	Kamil Rahme	
Pattern Formation Dynamics in Diverse Physico-Chemical Systems		Rabih Sultan		
Session 4	Computer Lab	Chair: K. Rahme or J. Stephan	Environmental Sciences 1	
pplied Ther	modynamic to Chemicals Safety Ex	sperimental data base and modeling perspective	J.Saab et al.	
Vapor-Liquid Equilibria of Phenanthrene from 10-3 to 1,5 KPa by Dynamic Gas Saturation Method. Optimization and Validation.		J.Stephan et al.		
Systeme microfluidique pour la determination de coefficient de partage entre phases des xenobiotiques. Cas de 1- Octanol/-Eau		K.Stephan et al.		
ynthesis and		polymer, for depollution of contaminated water by	Jamil Rima et al.	
ynthesis of ı	mesoporous hybrid materials for th	ne extraction of nitrates from water	Jana Issa et al.	
iofilm Grow	th in a laboratory built Reactor: Inv	vestigation on Heavy Metal dynamic exchange.	YASSINE F et al.	
Bioiiiiii Grow	th in a laboratory built Reactor: inv	vestigation on neavy Metal dynamic exchange.	YASSINE F et al.	

Thursday March 22, 2012 19:00 - 20:30 Abou Khater Auditorium | Chair: Dr Roy Khalaf Biological & Medical Sciences: Molecular Biology/Genetics The Arginine-Rich Domain of Phage HK022 Nun Has Unexpected Requirements for BoxB RNA Binding Colin Smith et al. Local overexpression of VEGF in the uterine arteries of pregnant sheep results in a longterm increase in Khalil Abi Nader et al. uterine artery blood flow The quality control of proteins extends to post-ER compartments. Esther Ghanem et al. Effect of Sodium Nitroprusside on Blood Pressure Development in L-NAME Hypertensive Rats: Implication Marcel Bassil et al. Classification of SF1 and SF2 helicase families in archaea: A Hala Chamieh et al. Human Dental Pulp Cell Apoptosis: Immunohistochemical Study Angelo Leone et al. Chair: Dr Mahmoud el Korek **Physical Sciences 1** Materials for Energy: hydrogen storage compounds and lithium non-oxides for electrodes Samir Matar et al. Sulfur Containing Natural and Synthetic materials for Removal of Toxic Metals from Aqueous Media Ismail Abbas et al. Fabrication of î±-Fe2O3 and Fe3C nanobelts by electrospinning technique Cynthia Eid et al. Laser speckle dynamic for monitoring fruits maturation Rana Nassif et al. Estimation of the Dispersion and Optical Parameters of sprayed CdS Thin Films by Chemical Spray Sami Chiad et al. Pyrolysis at Different Substrate Temperatures Effect of the applied bias on miniband structure in dimer Fibonacci GaAs/Ga1-xAlxAs superlattices Aziz Zoubir et al. Science Conference Room Chair: Dr Fabienne Gauffre Chemistry 2 Studying the effect of the vintage on the aroma of Syrah red wine using GC-MS Nathalie Estephan CHEMICAL COMPOSITION OF DIFERENT PARTS OF PISTACIA PALAESTINA GROWING WILD IN LEBANON Layal Fahed CHEMICAL COMPOSITION AND BIOINDICATOR PROPERTIES OF ARUNDO DONAX FROM LEBANON Juliette Saliba CHEMICAL COMPOSITION AND ANTIMICROBIAL ACTIVITIES OF THE ESSENTIAL OILS OF THYMBRA Pamela Hanna SPICATA, SATUREJA THYMBRA AND SALVIA FRUTICOSA FROM LEBANON Optimisation d'une methode analytique basée sur le couplage GC/MS pour le suivi des organoétains et Rola Zaydan leur devenir dans le milieu marin Chair: Dr. Dany Azar **Environmental Sciences 2** Palynological analysis of four new Lower Cretaceous amber outcrops in Lebanon Dany AZAR et al. Orbitolinidae of two Aptian sites in Lebanon Sibelle MAKSOUD et al. Cetoniidae (Coleoptera) of Lebanon Nicolas HADDAD et al. Jurassic Amber in Lebanon Youssef NOHRA et al. Pheromone identification of the Lebanese cedar shoot moth Dichelia cedricola Diak. (Lepidoptera, Nabil NEMER et al. Tortricidae) Forest fuel type mapping in North Lebanon George Mitri et al.

		Friday March 23, 2012	2
10:30 - 12:00			
Session 1	Abou Khater Auditorium	Chair: Dr Colette Kabrita	Biological & Medical Sciences: Cancer
Epigenetic in	hibition of tumor promotion by pa	rthenolide: role of NF-D B and p21	Akram Ghantous et al.
Valorisation	of a medicinal plant of lebanon, a	lcea setosa	Hoda El Bitar
=	d leukemia (AML) cell lines are se diated arginine Depletion	ensitive to human recombinant arginase I (co)-	Ralph Abi Habib et al.
Radiosensitiz tumorigenic f	•	by peptide aptamers in vivo inhibition of Hsp27	Elie Hadchity et al.
Association of	of MMP-3 1171(5A-6A) Polymorph	ism with lung cancer in Lebanon	Fakhoury et al.
Session 2	Friends' Hall	Chair: Dr Charles Saad	Engineering 2
OPTIMIZATIO	ON OF CHIRP EXCITATIONP: APPLI	CATION TO CONTRAST ULTRASOUND IMAGING	Amira ZAYLAA
DIGITAL COD	DING REDUNDANCY MULTI-STEP A	NALOG TO DIGITAL CONVERTERS	Ali El Rachini
Runtime qua	lity services assurance for Wireles	ss sensor and actuator networks	Dima Hamdan
Green Airpor	t Sustainable Site Selection Study		Charles Saad
Development of an Image Reconstruction Method based on the detected Fluorescence using a polychromatic X-ray beam for the Analysis of Sample Composition		Lara Hamawy	
Evaluation of the dependency of multichannel uterine EMG signals using non linear cross- correlation analysis		Ramzi Halabi	
Session 3	Science Conference Room	Chair: Dr Toni Sayyah	Mathematics 1
AN ITERATIV	E METHOD FOR COMPUTING THE	INVERSE OF A MATRIX	Ziad RACHED
THE ILIEFF-SE	ENDOV CONJECTURE AND THE LA	W OF VECTOR FIELDS	Malhab KEYROUZ
RIESZ TRANS	FORMS OF SHROEDINGER OPERA	TORS ON WEIGHTED LEBESGUE SPACES	Joyce ASSAAD
	RI ERROR ESTIMATES FOR UNSTEA AND THE FINITE VOLUME METHOL	ADY CONVECTIONDIFFUSIONREACTION	Nancy CHALHOUB et al.
A NOTE ON S	SOME NEW FORMULAS THAT COM	MPUTE PRIMES AND DETERMINE THE NTH PRIME	Issam KADDOURA et al.
Session 4	Computer Lab	Chair: Dr Assaad Eid	Biological & Medical Sciences: Microbiology
	ntification and characterization of extended SpectrumI2 Lactamase	f some strains of the genus Klebsiella Producing	Daleh et al.
Increased Prevalence of Bla and newly Emerging bla Carbapenemase encoding genes in extended spectrum lactamases producing		Maysa Baroud et al.	
Genotypes and serotype distribution of macrolide resistant invasive and non- invasive Streptococcus pneumoniae isolates from Leb		Farah Nassar et al.	
Genetic Dive	rsity of Staphylococcus aureus isc	olated from Lebanon	Houda Harastani et al.
	n of Clinical isolates of Staphyloco onization Mass Spectrometric	ccus aureus using Matrix-assisted laser	Hussein El Hage et al.
	l effect of three traditionally used t phenotypes of resistance	lebanese plants against staphylococcus aureus	Roula Abdel-Massih et al.
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		Friday March 23, 2012	
		15:15 - 16:45	
Session 1	Abou Khater Auditorium	Chair: Dr Rita Maalouf	Biological & Medical Sciences: Cancer
The regulation	on of RhoA in Focal adhesions by s	tar D13 is essential for Astrocytoma cell motility	Mirvat El Sibai et al.
Establishing	clinically-relevant in vitro models	of prostate cancer	Wassim Abou kheir
Pleural effus	ion lymphoma		Raghida Abou merhi et al.
The anticand		annin induces senescence and DNA damage in colon	Racha Al Halabi et al.
	tarD13 in breast cancer Proliferati	on and Cell Motility	Samer Hanna et al.
Dyadic Mode	el and Coping Strategies		Walid Sarkis et al.
Session 2	Friends' Hall	Chair: Dr Talal Salem	Engineering 3
Evaluation o	f groundwater pollution in the regi	on of Sour	Therese Atallah
Bee Algorith	m and Neural Network to Control I	Nonlinear Inverted Pendulum	Jean Lahoud
Fraud detect	ion in olive oil using ultrasound		Marie Nawal Sabra-Gemayel
Session 3	Science Conference Room	Chair: Dr Hikmat Farhat	Computer Science / Engineering 1
RECURRENT	PSEUDO RELEVANCE FEEDBACK		Fadi YAMOUT
NEURO-SRAI	M TECHNOLOGY		Nayef SALEH et al.
NETWORKING APPLICATIONS OF BLOOM FILTERS		Hikmat FARHAT	
COMPARISON ON THE BASIS OF MULTIPLE DECISIVE FACTORS		Fadi YAMOUT	
CENTRALIST: A NEW SOFTWARE KEYBOARD FOR PEOPLE WITH MOTOR DISABILITIES		Georges BADER et al.	
EVOLUTIONARY ALGORITHM FOR PREDICTING ALL-ATOM PROTEIN STRUCTURE		lman GHALAYINI et al.	
Session 4	Computer Lab	Chair: Dr Tanos Hage	Biological & Medical Sciences: Microbiological
Antifungal a	ctivity of some lebanese pomegra	nate waste materials against candida albicans	Younes et al.
Quantificatio	on of picocyanobacteria using qua	ntitative real-time PCR based on hcp gene	Stephanie Mehanna et al.
Identification	n of Virulence Genes among Antib	acterial- Resistant Escherichia coli isolated from poultry	F.E. El-Rami et al.

Session 1 Abou Khater Auditorium Chair: Dr Pauline Aad Biological & Medical Sciences: Reproduction Signaling pathways controlling trophoblast differentiation in human placenta Georges Daoud Cucurbitacin interaction with lipid menbranes Helene Greige et al. TAL-1 and its Partners Up-Regulate VE-Cadherin Expression in Endothelial Cells Elias Chalhoub et al. Effet du stresse alimentaire sur les performances reproductives et la composition du sang des baliers Najib Kfoury et al. Selenoprotein V and Antioxidant Enzymes during Rat Fetal Development Layal El Hajjar et al. Criteres morphologiques de choix des ovocytes de qualite de la race caprine baladi Rima Bou Karroum et al. Session 2 Friends' Hall Chair: Dr Hassan Hamadeh Social, Economic, and Behavorial Sciences The Marketing strategies of Islamic banking in Lebanon challenges and aspirations Khalil Ghazzawi et al. A framework to synchronize the Islamic Tax System with the Modern Tax System Pierre Al-Khoury et al. Keep Them In or Send Them Out: A Cost Assessment Approach For Employees Retention Expenses Dorriah Itani et al. An Optimization Approach Using Traditional Media: Hitting Low on Cost and High on Customers Sarah Ramadan et al. The IMPACTS OF WATER PRICING VARIATIONS ON OPTIMAL CROP-WATER PRODUCTIVITY AND M. Ragy Darwish et al.
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REVENUE MAXIMIZATION: THE CASE OF BEQAA' VALLEY, LEBANON
Optimization Technique for Minimizing Employment costs and Enhancing Organizational Citizenship Adham Khraibi et al.
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Session 3 Science Conference Room Chair: Dr Roger Hajjar Physical Sciences 2 On Blackholes Know Where They Live? Bassem Sabra et al.
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Electronic Structure of a Metal Compounds Burhan R. Al-Shafaay et al.
Nonte-Carlo modeling of DNA radio-induced damage using clustering algorithms Ziad Francis
an ab initio Calculation with Vibration-Rotation Study of the Molecule CaF Anwar Shtay et al.
THEORETICAL ELECTRONIC STRUCTURE OF THE MOLECULE Yal Saleh AbdulAl et al.

Chemical Composition and Antioxidant Activities of the Essential Oil of RosMarinus Officinalis Grown in Lebanon. ESSENTIAL OIL COMPOSITION OF CORIDOTHYMUS CAPITATUS (L.) REICHENB. FIL GROWING WILD IN SOUTH LEBANON Antimicrobial and chemical composition Juniperus excelsa (foliage, berries and twigs) growing wild in Lebanon TOTAL FLAVONOID, TOTAL PHENOLIC AND ANTIOXIDANT ACTIVITIES OF THE ETHANOLIC EXTRACT OF ROSMARINUS OFFICINALIS GROWN IN LEBANON Synthesis and Characterisation of hydrophobic polymer, for depollution of contaminated water by inorganic and organic chemicals			Saturday March 24, 201	.2	
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Saturday March 24, 2012				
11:30 - 13:00				
Session 1	Abou Khater Auditorium	Chair: Dr. Nawal Farhat	Environmental Sciences 4	
The association	on of ozone and fine particulate m	atter with mortality and hospital admissions in 12 Canadian	Nawal Farhat et al.	
Air Quality mo	onitoring of Particulate Matter (PN	12.5) in Zouk Mosbeh-Kesrwan	Khalaf-Kairouz Layla et al.	
Characterizati heavy metal s		rut coastal region: Evaluation of pollutant discharges and	Maatouk E. et al.	
Microbial Deg	gradation of Oil Spills in Marine E	cosystem	Dareen Miliji et al.	
Hydrochemica reservoir func	_	indwater interaction in Qaraoun lake: specific insight of the	Rawaa Ammar et al.	
Session 2	Friends' Hall	Chair: Dr Doris Jaalouk	Biological & Medical Sciences: Metabolic Diseases/Neuroscience	
	genitor Cell Proliferation and Gen na Protein pRb during Oflactory Bu	eration of Adult-born GABAergic neurons by the ulb Neurogenesis	Rayan Naser et al.	
	on Oxidative Stress-Mediated Deh agnosis of Alzheimer Disease	ydroepiandrosterone Formation in Serum: The Biochemical	Georges Rammouz et al.	
AMPK, mTOR	and Tuberin: Novel Biological Pat	hways Linking Diabetes to Colorectal Cancer	Abou Merhi et al.	
Body Compos Reynolds Wor	**	sk Factors in Polycystic Ovary Syndrome (PCOS) in the	Jocelyne Bou Mosleh	
Effects of Exe Skeletal Musc		diabetic rats on Insulin Receptor Signaling Pathways in the	Farah Reda et al.	
Involvement o	of Rental Cytochrome P450 and Ar	achidonic Acid Metabolites in Diabetic Nephropathy	Assaad Eid et al.	
Session 3	Science Conference Room	Chair: Dr Toufic Rizk	Chemistry 4	
iteam Reform	ning of Ethanol over Ru/Co6Al2 an	d Cu/ Co6Al2 Catalysts	Ruba Al-Khawaja	
inetic Study	of Model Soot Oxidation over Ru/0	Co6Al2 Catalyst	Amal Aoun	
Poly(diallylaminoethyl-substituted nucleosides); Preparation and characterization		Kamal Bouhadir		
Simple proced	lures to synthesis Poly (L (+) Lacti	c Acid) by polycondensation Method in Solution	Walid Harb	
Synthetic nucl	eoside analogs: Synthesis and cha	aracterization	Ali Koubeissi	
Session 4	S106 (Science Building)	Chair: Dr Ramez Maalouf	Mathematics 2	
ON AN EXTEN	IDED NOTION OF SUBOBJECT CLA	SSIFICATION IN CATEGORIES, AND CATEGORICAL LOGIC	R. MAALOUF	
REDUCED BAS	SIS METHOD FOR NUMERICAL SIN	IULATION OF BLOOD FLOWS IN TISSUES	N. MORCOS	
ABOUT AN AF		NEYL - VAN DER CORPUT INEQUALITY TO SOME SUMS OF	H. SALIBA	

POSTER Session	EXAM HALL 1
Engineering	
Non Linear Numerical Analyses of the Dynamical Behaviour of Piles Group	Fadi Hage Chehade
Communitary Salaman / Francisco aving	
Computer Science/Engineering ARP Session Authentication Protocol Using Multi-Agent platform and kernel level filter driver	Abbas Khorsheed
Iterated Holomorphic Maps	Guitta Sabiini Rishmany
Comparison on the Basis of Multiple Decisive Factors	Fadi Yamout
Recurrent Pseudo Relevance Feedback	Fadi Yamout
Physical Sciences	
optical properties of Au/Ag core shell nano particles	S. Abboudy et al.
RBS studies on thermally treated polyimide films	S. Abboudy et al.
Preparation of Organometallic Compounds from Schiff Bases and Study their Thermal Properties as a Function of Te	Abdulazeez Mousa et al.
Rovibrational study of electronic states of the BeF molecule	Farah El-Korjieh et al.
Ab initio Calculation of Electronic States of YbRb Molecule	Samir N. Tohme et al.
REMOTE PLASMA OXIDATION OF TUNGSTEN THIN FILMS	Abeer Al Mohtar et al.
Biological & Medical Sciences	
Regulation of ceramide generation during adenoviral infection	Sandra Ghayad
Regulation of the ceramide pathway by the adenoviral E4orf4 gene	Maria Esmerian
Modulation of TNFI and TGFI 1 in botox treated rats with burn wounds	Adbo Jurjus
Study of the Risk of Hypertension Related to the Combination of Polymorphisms in the I2-Adrenergic Gene and End	Nadia Soudani
SOD1 Mutational Screening in Lebanese Keratoconus Patients	Layal Abi Farraj
The Antifungal effect of some natural bioactive materials on candida albicans and dermatophytes	Zakia Olama et al.
The antibacterial effect of some lebanese olive oils against some multi-drug resistant ESBL-Klebsiella and MRSA	Zakia Olama et al.
Effect of Lebanese honey on some Gram positive and Gram negative multi-drug resistant bacteria	Zakia Olama et al.
Detection of Antimicrobial activities in Bacteria isolated from Marine Biota Epidemiological typing & characterization of Strepococcus pyogenes in Lebanon	Zakia Olama et al.
An Approach to Staphylococcus aureus typing via Matrix assisted laser Desorption ionization-time of flight mass Spe	Nathalie Karaky Dania Awad
Evaluation of the effect of wild carrot oil extract on acute Myeloid leukemia (AML) cells and potential mechanisms of	Ralph Abi Habib
Chemopreventive activities of sesquiterpene lactones from indigenous lebanese plants in skin cancer: Modulation	Melody Saikali
The effect of StarD 13 on colorectal cancer malignancy and Invasion	Anita Nasrallah
Analysis of Oocyte Morphological Quality in Awassi sheep	Pauline Aad et al.
Expression of Selenophosphate Synthetase-1 and Selenophosphate Synthetase-2 during rat fetal Development	Nour Jalaleddine
Effect of Pasteurization and addition of whey proteins and alginates on the sensory and microbiological quality of y	Maya Abou Jaoude
Estimation of trans Fatty Acids and Omega 6: Omega 3 fatty acids ratio Consumption in Lebanese Adults.	Antoine Farhat
The effect of OxLDL in combination with TGF-I/IL6 in breaking Th17/Treg Balance in Atherosclerotic patients	Nancy Kaddour et al.
Therapeutic Effect of Estrogen in Experimental Colitis	Abdo Jurjus
Molecular characterization of calyculin A- induced hotspots of breakages at the fragile site FRA11D	Amani Mallat
Blockade of the mTOR Pathway by Rapamycin Attenuates Myocardial Injury in Diabetes. Pomegranate (Punica granatum) attenuates acute kidney injury by downregulating Nox1 and Nox4 NADPH oxidase	Assaad Eid et al. Assaad Eid et al.
Role of mTOR in Podocyte Injury and albuminuria in Type 1 Diabete	Assaad Eid et al.
Note of informir odocyte injury and abdininuna in Type 1 Diabete	Assaau Liu et al.
Chemistry	
Chemical Composition and Antioxidant Activities of the Essential Oil of RosMarinus Officinalis Grown in Lebanon.	Farah Abdulhay
TOTAL FLAVONOID, TOTAL PHENOLIC AND ANTIOXIDANT ACTIVITIES OF THE ETHANOLIC EXTRACT OF ROSMARINUS (·
Seed oil of Opuntia ficus indica: Fatty acid composition and antioxidant activity	Marc El Beyrouthy
Rosa canina volatile fraction and aromatic water composition	Marc El Beyrouthy
TOTAL FLAVONOID, TOTAL PHENOLIC AND ANTIOXIDANT ACTIVITIES OF THE ETHANOLIC EXTRACT OF JUNIPERUS EXC Chemical Composition, Antioxidant and Antimicrobial Activities of the Essential Oil of the berries of the Juniperus	Nassim El-Achi Nassim El-Achi
Comparative Analysis of Heavy Metals and their Distribution in Canned Meat Tissues Consumed in Lebanon	Cherine Saliba
Determination and Correlation of Heavy Metal Contamination of Soil and Olive Trees in North Lebanon	Mira Younes
Environmental Sciences	
	Pawaa Ammarat al
Phosphogypsum as a Gypsum substitute: Investigation of its behavior and predicting its fate in aquatic Environmen Opuntia ficus indica as a biointegrator species: heavy metals bioaccumulation from contaminated environments	Rawaa Ammar et al. Hayek E. et al.
Development of a Stepwise Method to Identify Genetically Modified Events in Soybean and Maize	Narmeen Mallah et al.
Microbial Degradation of caffeine	Fatima Meched et al.
Identification of sugar degradation products	Jeanne Andary et al.
Evolution of furans under different overliming conditions	Jeanne Andary et al.
Social and Behavioral Sciences	
Assessment and Consumer Perception of "Light Foods" in Two Different Lebanese Regions	Lara Hanna