

LAAS 18th International Science Meeting: New Discoveries in Science

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.

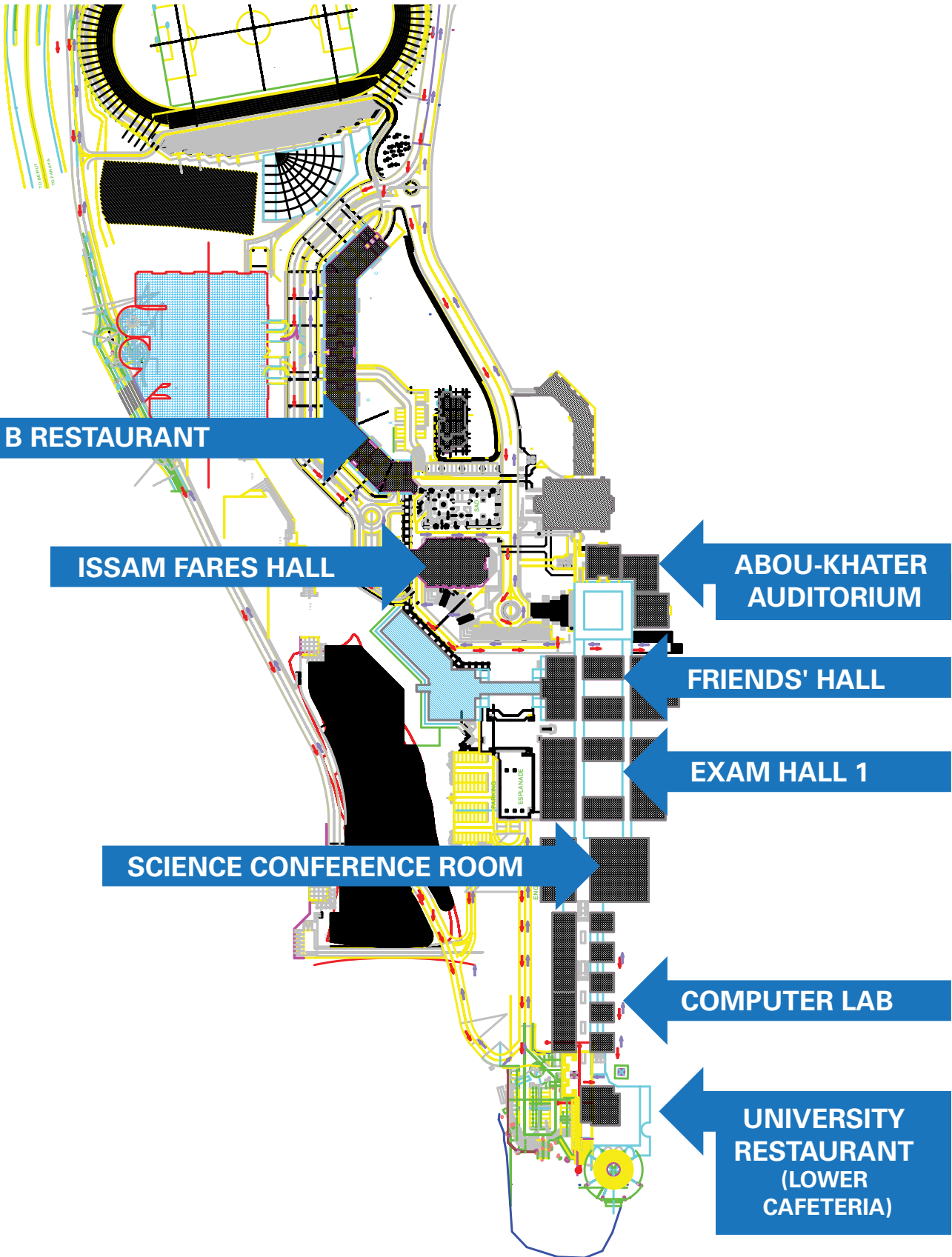
This year, fourteen (14) scientists were nominated from the various scientific fields. Their curriculum Vitae as provided and documented in the respective data bases, were reviewed thoroughly and voted upon. This year, it was noted that the number of women scientists nominated increased to 40%.

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.

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.

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 outstanding 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 Ehtay				Biological & Medical Sciences: Immunology
Caracterisation de la inhibition de la integrase de VIH-1 par des anticorps Monoclonaux Anti-Helice I+4			Richard Maroun et al.	
Ceramide regulates the translocation and phosphorylation of PKC δ			Rouba Hage Sleiman et al.	
The effects of Atorvastatin on Immune responses and on the survival of murine models of bacterial and fungal infection			Nabil Zeidan et al.	
Uric Acid; a possible mediator of the adjuvant effect of Alum in mice Immunized with Ovalbumin			Nayla Al Akl et al.	
Polymorphisms in Interleukin-2 and Interleukin-7 receptor α -chain genes and human herpes virus-6 as risk factors of multiple sclerosis			Layal Fayad et al.	
Session 2 Friends' Hall Chair: Dr Pascal Damien				Engineering 1
Wind-Solar Energy Fusion Based on Swarm Intelligence			Fakherdine Keyrouz	
MICROELECTRONICS CMOS VLSI HYPERBOLIC TANGENT FUNCTION & ITS DERIVATIVE CIRCUITS FOR NEURAL NETWORK APPLICATIONS			Hussein Chible	
Analyses of the interaction tunnel-soil-structure			Fadi Hage Chehade	
Soil Resistivity Structure and Its Implication on the Pole Grid Resistance for Transmission Lines			Mohamad Nassereddine	
A Nonlinear Filter for Accurate Estimation of Attitude for a VTOL UAV			Najib Metni	
DRILLING OF AERONAUTICAL STRUCTURES			Pierre Rahme	
Session 3 Science Conference Room Chair: Dr Kamil Rahme				Chemistry 1
The NEARLY CONSTANT LOSS EFFECT In METAPHOSPHATE GLASSES			Layla Badr	
Study of potential migrants from microwaveable plastic food packaging			Nathalie Estephan	
Study of Antibiotics-Loaded Poly(DL-lactide) Microspheres			Dima Moussa	
WATER STABLE POLYMERS-GOLD NANOPARTICLES HYBRIDS: SYNTHESIS, CHARACTERISATION AND APPLICATIONS FOR siRNA DELIVERY			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
Applied Thermodynamic to Chemicals Safety Experimental 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.	
Système microfluidique pour la détermination de coefficient de partage entre phases des xenobiotiques. Cas de 1- Octanol/-Eau			K.Stephan et al.	
Synthesis and Characterization of hydrophobic polymer, for depollution of contaminated water by inorganic and organic chemicals			Jamil Rima et al.	
Synthesis of mesoporous hybrid materials for the extraction of nitrates from water			Jana Issa et al.	
Biofilm Growth in a laboratory built Reactor: Investigation on Heavy Metal dynamic exchange.			YASSINE F et al.	

Thursday March 22, 2012

19:00 - 20:30

Session 1	Abou Khater Auditorium	Chair: Dr Roy Khalaf	Biological & Medical Sciences: Molecular Biology/Genetics
			Colin Smith et al.
			Khalil Abi Nader et al.
			Esther Ghanem et al.
			Marcel Bassil et al.
			Hala Chamieh et al.
			Angelo Leone et al.
Session 2	Friends' Hall	Chair: Dr Mahmoud el Korek	Physical Sciences 1
			Samir Matar et al.
			Ismail Abbas et al.
			Cynthia Eid et al.
			Rana Nassif et al.
			Sami Chiad et al.
			Aziz Zoubir et al.
Session 3	Science Conference Room	Chair: Dr Fabienne Gauffre	Chemistry 2
			Nathalie Estephan
			Layal Fahed
			Juliette Saliba
			Pamela Hanna
			Rola Zaydan
Session 4	Computer Lab	Chair: Dr. Dany Azar	Environmental Sciences 2
			Dany AZAR et al.
			Sibelle MAKSOUD et al.
			Nicolas HADDAD et al.
			Youssef NOHRA et al.
			Nabil NEMER et al.
			George Mitri et al.

Friday March 23, 2012

10:30 - 12:00

Session 1	Abou Khater Auditorium	Chair: Dr Colette Kabrita	Biological & Medical Sciences: Cancer
Epigenetic inhibition of tumor promotion by parthenolide: role of NF-D B and p21			Akram Ghantous et al.
Valorisation of a medicinal plant of Lebanon, <i>Alcea setosa</i>			Hoda El Bitar
Acute myeloid leukemia (AML) cell lines are sensitive to human recombinant arginase I (co)-PEG5000-mediated arginine depletion			Ralph Abi Habib et al.
Radiosensitization effects of Hsp27 inhibition by peptide aptamers in vivo inhibition of Hsp27 tumorigenic functions.			Elie Hadchity et al.
Association of MMP-3 1171(5A-6A) Polymorphism with lung cancer in Lebanon			Fakhoury et al.
Session 2	Friends' Hall	Chair: Dr Charles Saad	Engineering 2
OPTIMIZATION OF CHIRP EXCITATION: APPLICATION TO CONTRAST ULTRASOUND IMAGING			Amira ZAYLAA
DIGITAL CODING REDUNDANCY MULTI-STEP ANALOG TO DIGITAL CONVERTERS			Ali El Rachini
Runtime quality services assurance for Wireless sensor and actuator networks			Dima Hamdan
Green Airport 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 ITERATIVE METHOD FOR COMPUTING THE INVERSE OF A MATRIX			Ziad RACHED
THE ILIEFF-SENDOV CONJECTURE AND THE LAW OF VECTOR FIELDS			Malhab KEYROUZ
RIESZ TRANSFORMS OF SCHRÖDINGER OPERATORS ON WEIGHTED LEBESGUE SPACES			Joyce ASSAAD
A POSTERIORI ERROR ESTIMATES FOR UNSTEADY CONVECTION--DIFFUSION--REACTION PROBLEMS AND THE FINITE VOLUME METHOD			Nancy CHALHOUB et al.
A NOTE ON SOME NEW FORMULAS THAT COMPUTE PRIMES AND DETERMINE THE NTH PRIME			Issam KADDOURA et al.
Session 4	Computer Lab	Chair: Dr Assaad Eid	Biological & Medical Sciences: Microbiology
Isolation, Identification and characterization of some strains of the genus <i>Klebsiella</i> Producing CTX-M Type extended Spectrum β -Lactamase			Daleh et al.
Increased Prevalence of <i>Bla</i> and newly Emerging <i>bla</i> Carbapenemase encoding genes in extended spectrum β -lactamases producing...			Maysa Baroud et al.
Genotypes and serotype distribution of macrolide resistant invasive and non-invasive <i>Streptococcus pneumoniae</i> isolates from Lebanon			Farah Nassar et al.
Genetic Diversity of <i>Staphylococcus aureus</i> isolated from Lebanon			Houda Harastani et al.
Identification of Clinical isolates of <i>Staphylococcus aureus</i> using Matrix-assisted laser desorption/ionization Mass Spectrometry...			Hussein El Hage et al.
Antimicrobial effect of three traditionally used Lebanese plants against <i>Staphylococcus aureus</i> with different phenotypes of resistance			Roula Abdel-Massih et al.

Friday March 23, 2012

15:15 - 16:45

Session 1	Abou Khater Auditorium	Chair: Dr Rita Maalouf	Biological & Medical Sciences: Cancer
The regulation of RhoA in Focal adhesions by star 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 effusion lymphoma			Raghida Abou merhi et al.
The anticancer plant derived compound gallotannin induces senescence and DNA damage in colon cancer cell lines.			Racha Al Halabi et al.
The role of starD13 in breast cancer Proliferation and Cell Motility			Samer Hanna et al.
Dyadic Model and Coping Strategies			Walid Sarkis et al.
Session 2	Friends' Hall	Chair: Dr Talal Salem	Engineering 3
Evaluation of groundwater pollution in the region of Sour			Therese Atallah
Bee Algorithm and Neural Network to Control Nonlinear Inverted Pendulum			Jean Lahoud
Fraud detection 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-SRAM 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			Iman GHALAYINI et al.
Session 4	Computer Lab	Chair: Dr Tanos Hage	Biological & Medical Sciences: Microbiology
Antifungal activity of some lebanese pomegranate waste materials against candida albicans			Younes et al.
Quantification of picocyanobacteria using quantitative real-time PCR based on hcp gene			Stephanie Mehanna et al.
Identification of Virulence Genes among Antibacterial- Resistant Escherichia coli isolated from poultry			F.E. El-Rami et al.

Friday March 23, 2012

17:15 - 18:40

Session 1	Abou Khater Auditorium	Chair: Dr Pauline Aad	Biological & Medical Sciences: Reproduction
			Georges Daoud
			Helene Greige et al.
			Elias Chalhoub et al.
			Najib Kfoury et al.
			Layal El Hajjar et al.
			Rima Bou Karroum et al.
Session 2	Friends' Hall	Chair: Dr Hassan Hamadeh	Social, Economic, and Behavioral Sciences
			Khalil Ghazzawi et al.
			Pierre Al-Khoury et al.
			Dorriah Itani et al.
			Sarah Ramadan et al.
			M. Ragy Darwish et al.
			Adham Khraibi et al.
Session 3	Science Conference Room	Chair: Dr Roger Hajjar	Physical Sciences 2
			Bassem Sabra et al.
			Marwan Gebran
			Burhan R. Al-Shafaay et al.
			Ziad Francis
			Anwar Shtay et al.
			Saleh AbdulAl et al.

Saturday March 24, 2012

9:30 - 11:00

Session 1	Abou Khater Auditorium	Chair: Dr Jamil Rima	Chemistry 3
Chemical Composition and Antioxidant Activities of the Essential Oil of RosMarinus Officinalis Grown in Lebanon.			Farah Abdulhay
ESSENTIAL OIL COMPOSITION OF CORIDOTHYMUS CAPITATUS (L.) REICHENB. FIL GROWING WILD IN SOUTH LEBANON			Fabrice Cazier
Antimicrobial and chemical composition Juniperus excelsa (foliage, berries and twigs) growing wild in Lebanon			Marc El Beyrouthy
TOTAL FLAVONOID, TOTAL PHENOLIC AND ANTIOXIDANT ACTIVITIES OF THE ETHANOLIC EXTRACT OF ROSMARINUS OFFICINALIS GROWN IN LEBANON			Farah Abdulhay
Synthesis and Characterisation of hydrophobic polymer, for depollution of contaminated water by inorganic and organic chemicals			Jamil Rima
Session 2	Friends' Hall	Chair: Dr Antoine Farhat	Biological & Medical Sciences: Nutrition/Agriculture
Effect of Clostat as daily supplementation on broiler health and growth performance			Ibrahim et al.
Types et facteurs affectant la consommation de viande au Mont Liban			Elham Hajj Semaan et al.
Eating Disorders: when nutrition and psychology come together			Michel Nawfal
Unveiling complex interrelationships of body composition, energy intake and physical activity with strength and mobility in older adults using path analysis			Joane Matta et al.
Degree days and its effect on fruiting plants			Ihab Jomaa et al.
Effect of Sumac Spice, Turkish coffee and yerba mate tea on the postprandial glycemic response to Lebanese mankoucheh			Krystel Haydamous et al.
Session 3	Science Conference Room	Chair: Dr Hoda Maalouf	Computer Science / Engineering 2
STRATEGIES FOR OPTIMIZING MULTI-VIEW VIDEO CODING (MVC) ENCODING AND COMMUNICATIONS SCHEMES			P. AKIKI et al.
UNDERSTANDING THE IMPACT OF THE WEB ON THE ARAB NEAR EAST SOCIETY THROUGH THE INTERDISCIPLINARY APPROACH OF WEB SCIENCE			S. BAZAN et al.
APPLICATIONS OF EDUCATIONAL DATA MINING FOR THE ENGINEERING STUDENTS			C. EL-MOUICARI et al.
LEARNING OBJECT ORIENTED PROGRAMMING			N. HAWI
IMAGE COMPRESSION BY USING PATTERN CONTEXT METHOD			T.A. ABBAS et al.
GEOMETRICAL SIMILARITY OF MAP OBJECTS IN GIS BY USING DATA MINING			AL-ASADI et al.
Session 4	S106 (Science Building)	Chair: Dr. Fadi Karam	Environmental Sciences 3
Using the Standardized Precipitation Index to detect spatial and temporal rainfall pattern in the Bekaa Valley of Lebanon			Fadi Karam
Microbiological aspects of pesticide behavior in Bekaa valley			Nada Chafic Hammoud et al.
Pesticides, Nitrates and Nitrites contamination of groundwater of Akkar plain in Northern Lebanon			BAKKOUR H. et al.
Mobility of selected trace elements in Mediterranean red soil amended with phosphogypsum: Experimental			Lina Nafeh Kassir et al.
Status of soil organic carbon in abandoned olive orchards			Atallah T. et al.
Fabrication d'un support horticole nutritif et biodégradable à base d'une algue brune: Padina pavonica			Asma CHBANI et al.
Genetically Modified Organisms (GMOs) à?" Optimization of Screening Techniques and Complete Testing of the Lebanese Quarantine			Joyce Sakr et al.
Sweet Whey Characterization, Physicochemical and Biological Treatment			Rana Kabbout et al.

Saturday March 24, 2012

11:30 - 13:00

Session 1	Abou Khater Auditorium	Chair: Dr. Nawal Farhat	Environmental Sciences 4
The association of ozone and fine particulate matter with mortality and hospital admissions in 12 Canadian cities			Nawal Farhat et al.
Air Quality monitoring of Particulate Matter (PM2.5) in Zouk Mosbeh-Kesrwan			Khalaf-Kairouz Layla et al.
Characterization of wastewater released in Beirut coastal region: Evaluation of pollutant discharges and heavy metal speciation			Maatouk E. et al.
Microbial Degradation of Oil Spills in Marine Ecosystem			Dareen Miliji et al.
Hydrochemical Characterization of surface-groundwater interaction in Qaraoun lake: specific insight of the reservoir functioning			Rawaa Ammar et al.
Session 2	Friends' Hall	Chair: Dr Doris Jaalouk	Biological & Medical Sciences: Metabolic Diseases/Neuroscience
Control of Progenitor Cell Proliferation and Generation of Adult-born GABAergic neurons by the Retinoblastoma Protein pRb during Olfactory Bulb Neurogenesis			Rayan Naser et al.
A Lead Study on Oxidative Stress-Mediated Dehydroepiandrosterone Formation in Serum: The Biochemical Basis for a Diagnosis of Alzheimer Disease			Georges Rammouz et al.
AMPK, mTOR and Tuberin: Novel Biological Pathways Linking Diabetes to Colorectal Cancer			Abou Merhi et al.
Body Composition Phenotype and Metabolic Risk Factors in Polycystic Ovary Syndrome (PCOS) in the Reynolds Womens Study			Jocelyne Bou Mosleh
Effects of Exendin-4 and Selenium treatment of diabetic rats on Insulin Receptor Signaling Pathways in the Skeletal Muscles			Farah Reda et al.
Involvement of Renal Cytochrome P450 and Arachidonic Acid Metabolites in Diabetic Nephropathy			Assaad Eid et al.
Session 3	Science Conference Room	Chair: Dr Toufic Rizk	Chemistry 4
Steam Reforming of Ethanol over Ru/Co6Al2 and Cu/ Co6Al2 Catalysts			Ruba Al-Khawaja
Kinetic Study of Model Soot Oxidation over Ru/Co6Al2 Catalyst			Amal Aoun
Poly(diallylaminoethyl-substituted nucleosides); Preparation and characterization			Kamal Bouhadir
Simple procedures to synthesis Poly (L (+) Lactic Acid) by polycondensation Method in Solution			Walid Harb
Synthetic nucleoside analogs: Synthesis and characterization			Ali Koubeissi
Session 4	S106 (Science Building)	Chair: Dr Ramez Maalouf	Mathematics 2
ON AN EXTENDED NOTION OF SUBOBJECT CLASSIFICATION IN CATEGORIES, AND CATEGORICAL LOGIC			R. MAALOUF
REDUCED BASIS METHOD FOR NUMERICAL SIMULATION OF BLOOD FLOWS IN TISSUES			N. MORCOS
ABOUT AN APPLICATION OF A VARIANT OF H. WEYL - VAN DER CORPUT INEQUALITY TO SOME SUMS OF SPECIAL FORMS			H. SALIBA

Engineering

Non Linear Numerical Analyses of the Dynamical Behaviour of Piles Group

Fadi Hage Chehade

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 Temperature

Abdulazeez Mousa et al.

Rovibrational study of electronic states of the BeF molecule

Farah El-Korjeh 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 TNF α and TGF β 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 Endothelin-1 Gene

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

Zakia Olama et al.

Epidemiological typing & characterization of Streptococcus pyogenes in Lebanon

Nathalie Karaky

An Approach to Staphylococcus aureus typing via Matrix assisted laser Desorption ionization-time of flight mass Spectrometry

Dania Awad

Evaluation of the effect of wild carrot oil extract on acute Myeloid leukemia (AML) cells and potential mechanisms of action

Ralph Abi Habib

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