



LAAS 18th International Science Meeting: New Discoveries in Science

Thursday March 22, 2012	
12:00 – 14:30	Registration (Issam Fares Hall)
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

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'Étude 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.

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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

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BioNec

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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 Ectay	Biological & Medical Sciences: Immunology
Caracterisation de la inhibition de la integrase de VIH-1 par des anticorps Monoclonaux Anti-Helice I+4				Richard Maroun
Ceramide regulates the translocation and phosphorylation of PKC δ				Rouba Hage Sleiman
The effect of OxLDL in combination with TGF- β /IL6 in breaking Th17/Treg Balance in Atherosclerotic patients				Nancy Kaddour, Hilda Ghadieh
The effects of Atorvastatin on Immune responses and on the survival of murine models of bacterial and fungal infection				Nabil Zeidan
Uric Acid; a possible mediator of the adjuvant effect of Alum in mice Immunized with Ovalbumin				Nayla Al Akl
Polymorphisms in Interleukin-2 and Interleukin-7 receptor α -chain genes and human herpes virus-6 as risk factors of multiple sclerosis				Layal Fayad
Session 2		Friends' Hall	Chair: Dr Najib Metni	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 SIRM				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, R. Abou Naccoul, J. Stephan, W.Harb, B. Baz
Vapor-Liquid Equilibria of Phenanthrene from 10-3 to 1,5 KPa by Dynamic Gas Saturation Method. Optimization and Validation				J.Stephan, A.C. Razzouk, R. Abou Naccoul, I.Mokbel, J.Jose
Système microfluidique pour la détermination de coefficient de partage entre phases des xenobiotiques. Cas de 1- Octanol				K.Stephan, R.Ferrigno, I.Mokbel,J.Jose, J.Stephan, J.Saab
Synthesis and Characterization of hydrophobic polymer, for depollution of contaminated water by inorganic and organic chitosan				Jamil Rima, Kamil Rahme
Synthesis of mesoporous hybrid materials for the extraction of nitrates from water				Jana Issa, Sami Habib, Naim Ouaini, Ahmad Mehdi
Biofilm Growth in a laboratory built Reactor: Investigation on Heavy Metal dynamic exchange.				YASSINE F, A.G.ELSAMRANI, MAATOUK E., KAZPARD V., SAAD Z

Thursday March 22, 2012

19:00 - 20:30

Session 1	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
Local overexpression of VEGF in the uterine arteries of pregnant sheep results in a longterm increase in uterine a			Khalil Abi Nader
The quality control of proteins extends to post-ER compartments.			Esther Ghanem
Effect of Sodium Nitroprusside on Blood Pressure Development in L-NAME Hypertensive Rats: Implication of Gi P			Marcel Bassil
Classification of SF1 and SF2 helicase families in archaea: A			Hala Chamieh
Human Dental Pulp Cell Apoptosis: Immunohistochemical Study			Angelo Leone
Session 2	Friends' Hall	Chair: Dr Mahmoud el Korek	Physical Sciences 1
Materials for Energy: hydrogen storage compounds and lithium non-oxides for electrodes			Samir Matar, R. PÄttgen, Al Alam, N. Ouaini
Sulfur Containing Natural and Synthetic materials for Removal of Toxic Metals from Aqueous Media			Ismail Abbas, Iyad Karamah, Jinane Chaaban
Fabrication of $\text{Ti-Fe}_2\text{O}_3$ and Fe_3C nanobelts by electrospinning technique			Cynthia Eid, Vincent Salles, Roy Asmar, Arnaud Brioude
Laser speckle dynamic for monitoring fruits maturation			Rana Nassif, Fabrice Pellen, Christian Magné, Bernard Le Jeune, Guy Le Brun, Marie Abboud
Estimation of the Dispersion and Optical Parameters of sprayed CdS Thin Films by Chemical Spray Pyrolysis at Diff			Sami Chiad, Nadir Habubi, Tariq J Alwan
Effect of the applied bias on miniband structure in dimer Fibonacci GaAs/Ga _{1-x} Al _x As superlattices			Aziz Zoubir, Y. SEFIR, R. Djelti, S. BENTATA
Session 3	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 DIFFERENT 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 SPICATA, SATURE			Pamela Hanna
Optimisation d'une methode analytique basée sur le couplage GC/MS pour le suivi des organoétains et leur deve			Rola Zaydan
Session 4	Computer Lab	Chair: Dr. Dany Azar	Environmental Sciences 2
Palynological analysis of four new Lower Cretaceous amber outcrops in Lebanon			Dany AZAR, Denise ISKANDAR-TABIB, Antoine EL-SAMRANI, Raymond GEZE
Orbitolinidae of two Aptian sites in Lebanon			Sibelle MAKSOUD, Danielle DECROUEZ, Raymond GEZE, Dany AZAR
Cetoniidae (Coleoptera) of Lebanon			Nicolas HADDAD, Joseph CHARBEL, Youmna SALAME, Dany AZAR
Jurassic Amber in Lebanon			Youssef NOHRA, Dany AZAR, Raymond GEZE, Antoine EL-SAMRANI, Vincent P
Pheromone identification of the Lebanese cedar shoot moth Dichelia cedricola Diak. (Lepidoptera, Tortricidae)			Nabil NEMER, Jane BAL, Brigitte FREROT
Forest fuel type mapping in North Lebanon			George Mitri, Liliane Salloum, Manal Nader

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
Valorisation of a medicinal plant of lebanon, alcea setosa			Hoda El Bitar
Acute myeloid leukemia (AML) cell lines are sensitive to human recombinant arginase I (co)-PEG5000-mediated a			Ralph Abi Habib
Radiosensitization effects of Hsp27 inhibition by peptide aptamers in vivo inhibition of Hsp27 tumorigenic functio			Elie Hadchity
Association of MMP-3 1171(5A-6A) Polymorphism with lung cancer in Lebanon			Rajaa Fakhoury
Molecular characterization of calyculin A- induced hotspots of breakages at the fragile site FRA11D			Amani Mallat
Session 2	Friends' Hall	Chair: Dr Pascal Damien	Engineering 2
OPTIMIZATION OF CHIRP EXCITATIONP: 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-ra			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: 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			Mahab KEYROUZ
RIESZ TRANSFORMS OF SHROEDINGER OPERATORS ON WEIGHTED LEBESGUE SPACES			Joyce ASSAAD
A POSTERIORI ERROR ESTIMATES FOR UNSTEADY CONVECTION--DIFFUSION--REACTION PROBLEMS AND THE FINI			Nancy CHALHOUB, A. ERN, T. SAYYAH, M. VOHRALIK
A NOTE ON SOME NEW FORMULAS THAT COMPUTE PRIMES AND DETERMINE THE NTH PRIME			Issam KADDOURA, S. ABDUL-NABI
Session 4	Computer Lab	Chair: Dr Assaad Eid	Biological & Medical Sciences: Microbiology
Isolation, Identification and characterization of some strains of the genus Klebsiella Producing CTX-M Type extend			Zakia Olama, Maya Daleh
Increased Prevalence of Bla and newly Emerging bla Carbapenemase encoding genes in extended spectrum lactar			Maysa Baroud
Genotypes and serotype distribution of macrolide resistant invasive and non- invasive Streptococcus pneumoniae			Farah Nassar
Genetic Diversity of Staphylococcus aureus isolated from Lebanon			Houda Harastani
Identification of Clinical isolates of Staphylococcus aureus using Matrix-assisted laser desorption/Ionization Mass			Hussein El Hage
Antimicrobial effect of three traditionally used lebanese plants against staphylococcus aureus with different phen			Roula Abdel-Massih

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
Establishing clinically-relevant in vitro models of prostate cancer			Wassim Abou kheir
Pleural effusion lymphoma			Raghida Abou merhi
The anticancer plant derived compound gallotannin induces senescence and DNA damage in colon cancer cell			Racha Al Halabi
The role of starD13 in breast cancer Proliferation and Cell Motility			Samer Hanna
Dyadic Model and Coping Strategies			Walid Sarkis
Session 2	Friends' Hall	Chair:	Engineering 3
Evaluation of groundwater pollution in the region of Sour			Therese Atallah
Bee Algorithm and Neural Network to Control Nonlinear Inverted Pendulum			Charles Saad
Fraud detection in olive oil using ultrasound			Marie Nawal Sabra-Gemayel
Session 3	Science Conference Room	Chair: Hikmat Farhat	Computer Science / Engineering 1
RECURRENT PSEUDO RELEVANCE FEEDBACK			Fadi YAMOUT
NEURO-SRAM TECHNOLOGY			Nayef SALEH, A. M. HAIDAR, A. KASSEM, L. NIMRI
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, M. RAYNAL
EVOLUTIONARY ALGORITHM FOR PREDICTING ALL-ATOM PROTEIN STRUCTURE			Iman GHALAYINI, N. MANSOUR, S. RIZK, M. EL SIBAI
Session 4	Computer Lab	Chair: Dr Tanos Hage	Biological & Medical Sciences: Microbiology
Antifungal activity of some Lebanese pomegranate waste materials against candida albicans			Zakia Olama, Rola younes
Quantification of picocyanobacteria using quantitative real-time PCR based on hcp gene			Stephanie Mehanna
Identification of Virulence Genes among Antibacterial- Resistant Escherichia coli isolated from poultry			F.E. El-Rami

Friday March 23, 2012

17:15 - 18:40

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 membranes			Helene Greige
TAL-1 and its Partners Up-Regulate VE-Cadherin Expression in Endothelial Cells			Elias Chalhoub
Effet du stress alimentaire sur les performances reproductives et la composition du sang des baliers Awassi			Pauline Aad, Najib Kfoury
Selenoprotein V and Antioxidant Enzymes during Rat Fetal Development			Layal El Hajjar
Criteres morphologiques de choix des ovocytes de qualite de la race caprine baladi			Rima Bou Karroum
Session 2	Friends' Hall	Chair:	Social, Economic, and Behavioral Sciences
The Marketing strategies of Islamic banking in Lebanon challenges and aspirations			Khalil Ghazzawi, Pierre Al-Khoury
A framework to synchronize the Islamic Tax System with the Modern Tax System			Pierre Al-Khoury, Khalil Ghazzawi
Keep Them In or Send Them Out: A Cost Assessment Approach For Employees Retention Expenses versus Turnover			Dorriah Itani, Ragy Darwish, Pierre Al-Khoury, Khalil Ghazzawi
An Optimization Approach Using Traditional Media: Hitting Low on Cost and High on Customers			Sarah Ramadan, Ragy Darwish, Pierre Khoury, Imene Becheur
The IMPACTS OF WATER PRICING VARIATIONS ON OPTIMAL CROP-WATER PRODUCTIVITY AND REVENUE MAXIMIZATION			M. Ragy Darwish, Sami N. Khairallah
Optimization Technique for Minimizing Employment costs and Enhancing Organizational Citizenship Behavior			Adham Khraibi, M. Ragy Darwish, Pierre Khoury, Fouad Ichrakie
Session 3	Science Conference Room	Chair: Dr Roger Hajjar	Physical Sciences 2
Do Blackholes Know Where They Live?			Bassem Sabra, Charbel Saliba, Maya Abi Akl, Gilbert Chahine
A and F stars in open clusters: the AmFm senarii			Marwan Gebran
Electronic Structure of a Metal Compounds			Burhan R. Al-Shafaay, Fouad El hajj Hassan, Mahmoud El Korek
Monte-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, Mahmoud Korek
THEORETICAL ELECTRONIC STRUCTURE OF THE MOLECULE Yal			Saleh AbdulAI, Tarek Harb
Session 4	Computer Lab	Chair:	Education

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 LEBANO			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			Farah Abdulhay
Synthesis and Characterisation of hydrophobic polymer, for depollution of contaminated water by inorganic and o			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			Pauline Aad, Joe Ibrahim
Types et facteurs affectant la consommation de viande au Mont Liban			Elham Hajj Semaan
Eating Disorders: when nutrition and psychology come together			Michel Nawfal
Unveiling complex interrelationships of body composition, energy intake and physical activity with strength and m			Joane Matta
Degree days and its effect on fruiting plants			Ihab Jomaa
Effect of Sumac Spice, Turkish coffee and yerba mate tea on the postprandial glyceimic response to Lebanese mank			Krystal Haydamous
Session 3	Science Conference Room	Chair: Hoda Maalouf	Computer Science / Engineering 2
STRATEGIES FOR OPTIMIZING MULTI-VIEW VIDEO CODING (MVC) ENCODING AND COMMUNICATIONS SCHEMES			P. AKIKI, H. MAALOUF
UNDERSTANDING THE IMPACT OF THE WEB ON THE ARAB NEAR EAST SOCIETY THROUGH THE INTERDISCIPLINARY AF			S. BAZAN, C. H. VARIN
APPLICATIONS OF EDUCATIONAL DATA MINING FOR THE ENGINEERING STUDENTS			C. EL-MOUCARI, W. ZAKHEM, M. KHAIR
LEARNING OBJECT ORIENTED PROGRAMMING			N. HAWI
IMAGE COMPRESSION BY USING PATTERN CONTEXT METHOD			T.A. ABBAS, N. T. OBAIS
GEOMETRICAL SIMILARITY OF MAP OBJECTS IN GIS BY USING DATA MINING			AL-ASADI, M. JASIM
Session 4	Computer Lab	Chair: Dr. Fadi Karam	Environmental Sciences 3
Using the Standardized Precipitation Index to detect spatial and temporal rainfall pattern in the Bekaa Valley of Le			Fadi Karam
Microbiological aspects of pesticide behavior in Bekaa valley			Nada Chafic Hammoud, Hanafy Holail, Zakia Olama
Pesticides, Nitrates and Nitrites contamination of groundwater of Akkar plain in Northern Lebanon			BAKKOUR H., BAROUDI M., HALWANI J.
Mobility of selected trace elements in Mediterranean red soil amended with phosphogypsum: Experimental			Talal Darwich, Amin Shaban, Naim Ouaini
Status of soil organic carbon in abandoned olive orchards			Atallah T., Ibrahim L., Bitar S., Khatib M.N., T. Darwish
Fabrication d'un support horticole nutritif et biodegradable a base d'une algue brune: Padina pavonica			Asma CHBANI, Hiba Mawlawi, Laurence Zaouk
Genetically Modified Organisms (GMOs) à?" Optimization of Screening Techniques and Complete Testidg yafat Bahr Maghda Bou Dagher Kharrat, Lamis Chalak, Issam Mansour, Gretta Abou			Rana Kabbout, Moemen Baroudi, Hiba Bakkour, Fouad Dabboussi, Jalal Halwani, S
Sweet Whey Characterization, Physicochemical and Biological Treatment			

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, Daniel Krewski, Timothy Ramsey, Rick Burnett
Air Quality monitoring of Particulate Matter (PM2.5) in Zouk Mosbeh-Kesrwan			Khalaf-Kairouz Layla, Saliba Najat, Massoud Rawad
Characterization of wastewater released in Beirut coastal region: Evaluation of pollutant discharges and heavy me			Wlaatouk E., A.G. El Samrani, Chebbo G., Varrault G., Moilleron P
Microbial Degradation of Oil Spills in Marine Ecosystem			Dareen Miliji, Zakia Olama, Hanafy Holail
Hydrochemical Characterization of surface-groundwater interaction in Qaraoun lake: specific insight			Atallah Asem, Nabil Amacha, Veronique Kazpard, Bruno Lartiges, Lei Chou
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 P			Rayan Naser
A Lead Study on Oxidative Stress-Mediated Dehydroepiandrosterone Formation in Serum: The Biochemical Basis f			Georges Rammouz
AMPK, mTOR and Tuberin: Novel Biological Pathways Linking Diabetes to Colorectal Cancer			Assaad Eid, Sarah Abou Merhi
Body Composition Phenotype and Metabolic Risk Factors in Polycystic Ovary Syndrome (PCOS) in the Reynolds Wo			Jocelyne Bou Mosleh
Effects of Exendin-4 and Selenium treatment of diabetic rats on Insulin Receptor Signaling Pathways in the Skeleta			Farah Reda
Involvement of Renal Cytochrome P450 and Arachidonic Acid Metabolites in Diabetic Nephropathy			Assaad Eid, Stephanie Eid
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	Computer Lab	Chair: 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 FO			H. SALIBA

POSTER Session	EXAM HALL 1
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, S. Marhaba, R. Yassine
RBS studies on thermally treated polyimide films	S. Abboudy, M. Soueidan, R. Shouman, M. Locatelli
Preparation of Organometallic Compounds from Schiff Bases and Study their Thermal Properties as a Function of Te	Abdulazeez Mousa, Saadon A. Aowda, Mohammed H. Abbas
Rovibrational study of electronic states of the BeF molecule	Farah El-Korjeh, Mahmoud El Korek
Ab initio Calculation of Electronic States of YbRb Molecule	Samir N. Tohme, Mahmoud El Korek
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