



## Open Archive Toulouse Archive Ouverte (OATAO)

OATAO is an open access repository that collects the work of Toulouse researchers and makes it freely available over the web where possible.

This is an author-deposited version published in: <http://oatao.univ-toulouse.fr/>  
Eprints ID: 9445

**To cite this version:**

Wehbe, Toufic and Arnaud, Lionel and Dessen, Gilles *Faisabilité de la mesure de champs par stéréocorrélation d'images en conditions restrictives. Application aux vibrations de pièces minces en Usinage Grande Vitesse Anglais : Analyzing feasibility of field measurement by digital image stereo correlation to flexible workpiece vibrations during high speed machining.* (2013) In: 19th LAAS International Science Conference, 05 April 2013 - 06 April 2013 (Beirut, Lebanon).

Any correspondence concerning this service should be sent to the repository administrator: [staff-oatao@listes-diff.inp-toulouse.fr](mailto:staff-oatao@listes-diff.inp-toulouse.fr)



*Under the Patronage of His Excellency Dr. Hassan Diab,  
Minister of Education and Higher Education*

**The Lebanese American University (LAU)  
The Lebanese Association for the Advancement of Science (LAAS)  
The National Council for Scientific Research (CNRS)**

*Cordially invite you to the opening ceremony of the*

# 19<sup>th</sup> LAAS Science Conference

on April 5, 2013 at 11:00 am  
at Irwin Auditorium, LAU, Beirut campus

## PROGRAM

**Dr. Joseph G. Jabbra**

President, Lebanese American University

**Dr. Abdo Jurjus**

President, Lebanese Association for the Advancement of Science

**Dr. Mouin Hamze**

Secretary General, National Council for Scientific Research

**His Excellency Dr. Hassan Diab**

Minister of Education and Higher Education



During the opening ceremony an award will be granted to a distinguished scientist.

## 19<sup>th</sup> LAAS International Science Conference

### FRIDAY, APRIL 5

Lebanese American University			
	LAU-Irwin-Auditorium	LAU-BB903	LAU-BB904
8:30 am	Registration opens, Business Bldg BB904		
9:00-11:00	Bio, Med, Health I	Engineering & Telecom I	Food, Env, Agri I
9:00-11:00	POSTERS: Bio, Engg, Agri, Env, Food, (LAU-Business Building lobby)		
11:00-12:00	Opening Session, LAU-Irwin-Auditorium		
12:00-1:00 pm	Panel on "Arab-EU Research Cooperation", LAU-Irwin-Auditorium		

### FRIDAY, APRIL 5

Crowne Plaza Hotel			
	Room 1	Room 2	Room 3
1:15 - 2:30 pm	Lunch		
2:30 - 3:30	Panel on "Research, science policy, and impact"		
3:30 - 4:00	Coffee Break		
4:00 - 5:00	Bio, Med, Health II	Economics	Food, Env, Agri II
5:00 - 6:30	Bio, Med, Health III	Engineering & Telecom II	Education

### SATURDAY, APRIL 6

Crowne Plaza Hotel			
	Room 1	Room 2	Room 3
9:00 - 10:00 am	Keynote		
10:00 - 11:00	Bio, Med, Health IV	Social Science	Food, Env, Agri III
10:00 - 12:00	POSTERS: Medical Sc, Health, Pharmacy, Social Sc		
11:00 - 11:30	Coffee Break		
11:30 - 1:00	Bio, Med, Health V	Pharmacy I	Chemistry I
1:00 - 2:00 pm	Lunch		
2:00 - 4:00	POSTERS: Computer Sc, Math, Chemistry, Physics		
2:00 - 4:00	Bio, Med, Health VI	Computer Sc & Math	Chemistry II
4:00 - 4:30	Coffee Break		
4:30 - 6:15	Bio, Med, Health VII	Physics	Chemistry III

**19<sup>th</sup> LAAS International Science Conference**  
**PROGRAM of Oral Presentations**

**FRIDAY, APRIL 5, Lebanese American University**  
**8:30 am: Registration opens, Business Bldg BB904**

Time	LAU Irwin-Auditorium	LAU BB903	LAU BB904
9:00 - 11:00 am	<p>Functional epistatic interaction between rs6046G&gt;A in F7 and rs535C&gt;T in SELE modifies systolic blood pressure levels S. El Shamieh</p> <p>Antimicrobial Potential of Lebanese Cedar Extract Against Human Pathogens and Food Spoilage Microorganisms Olama, Z.; Hanafy, H. and Ghanem, S.</p> <p>Lon protease quality control of presecretory proteins in <i>Escherichia coli</i> and its dependence on the SecB and DnaJ (Hsp40) chaperones S.Sakr, A.Cirinesi, R.Ullers, F. Schwager, C. Georgopoulos and P. Genevaux</p> <p>The anti-proliferative and pro-apoptotic mechanism of action of kefir and its effect on the motility of breast ... N.El-Khoury, S.El-Hayek, El-Sibai M. and R. Sandra</p> <p>The effect of IL-6 on ox-LDL induced immune-modulation in atherosclerotic patients and healthy ... N.Kaddour; S.Bazzi ; M.Karam,</p> <p>The Effect of StarD13 on Colorectal Cancer Proliferation and Invasion A.Nasrallah; M.El-Sibai</p> <p>Proteomic Approach for <i>S. aureus</i> Typing D.Awad, S.Tokajian, and B.Wex</p>	<p>New method of multiple model estimation using belief function theory G. Nasserddine</p> <p>Pumped-Storage Hydro Electricity System Y.Zaatar, J.AJ Souhail, and A. Assi</p> <p>Emission Tomography using a Regularized Image Reconstruction Technique for high density elements L. Hamawi, W. Hassan, S.Barre, S. Legoupil</p> <p>Advanced Abdomen Development for Crash Test Devices A. Hage-Diab</p> <p>NanotexturedSilicon for Biomedical Applications M.Hajji-Hassan</p> <p>Modeling ITS Communication in High Mobility Scenarios H.Abdallah, W. Itani</p> <p>3D modeling of bond-slip relationship between concrete and reinforcement by ABAQUS C.A. Issa, O.Y. El Masri</p>	<p>Antimicrobial activity and chemical composition of the essential oil of <i>Daucuscarota</i> subsp. <i>maximus</i> growing wild in Lebanon M.Khoury, M. El Beyrouthy, N.Ouaini, D.Stien</p> <p>Chemical composition and insecticidal properties of essential oils of four Lamiaceae plants growing wild in Lebanon against <i>Rhynchophorusferrugineus</i> M.Termos, N. Nemer, N. Arnold- Apostolides, M. Beyrouthy</p> <p>Antimicrobial activity and chemical composition of the essential oil of <i>Origanumstyracium</i> L. from Lebanon and comparison with its major components S. Chedraoui, M.Al Hafii, L. Hanna Wakim, N. Arnold-Apostolides, M. El Beyrouthy</p> <p>The occurrence of burrowing nematodes on banana in Lebanon and their control using plant extracts and ... S.K. Ibrahim, L.Ibrahim, I.Choueiry</p> <p>Status of Heavy Metals in Water and Bed Sediments of Al-Ghadir River, Mount Lebanon A. Meheik, M.Fakih, N. Bousserhine, J.Toufaily, E.Garnier-Zarti, T. Hamieh</p> <p>Sea water chlorophyll-a extraction using Landsat ETM+ satellite image and Artificial Neural Network Mohamad Awad, Nijad Kabbara</p> <p>Dynamique des stocks de carbonedans les sols: identification des usages et des pratiquesatténuant les effets du changement climatique en region méridionale</p>

	Effect of Connexin 43 Loss on Polarity and Initiation of Tumorigenesis in the Normal Mammary Epithelium Bazzoun, D.B., Adissu, H.A., Lelièvre, S.A., and Talhouk, R.S	Growth and 4-ethylphenol production by Brettanomyces yeast isolated from Lebanese wine J. Kheir, D. Salameh, P. Strehaiano, C.Brandam, R. Lteif	N. Boukhoudoud
	Identification of homologous genes to PA1b, a cysteine-rich plant peptide in Medicagotrucatula L.Karaki, P. Silva, V. Eyraud, F. Gressent, N.Chantret, C. Brochier-Armanet, F.Rizk, Y. Rahbe, C.Royer		

<b>11:00 - 12:00</b>	<b>Opening Session, LAU-Irwin-Auditorium</b>
12:00 - 1:00 pm	Panel on "Arab-EU Research Cooperation", LAU-Irwin-Auditorium Drs. <i>Mouin Hamze</i> , <i>Abdul-Hamid Zoheiry</i> , <i>Rigas Arvanitis</i>

## Crowne Plaza Hotel

2:30 - 3:30 pm	Panel on "Research, science policy, and impact" Drs. <i>Hassan Charif</i> , <i>Antoine Zahlan</i> , <i>Sari Hanafi</i> , <i>Elham Kallab</i>
----------------	---

Time	Room 1	Room 2	Room 3
4:00 – 5:00 pm	Signaling Mechanisms of the Zinc Chelator TPEN in Human Colon Cancer Cells Maamoun Fatfat, Raghida Abou Merhi, Angela Zaki, Hazar Haïdar, Ghizlaine Bendriss, Khaled Machata, Hala Gali-Muhtasib Control of adult neural stem cells (NSCs) by the retinoblastoma protein, pRb in vitro Hayek Dayana, Al Lafi Sawal, Saab Raya, and Ghanem Noël Inhibition of Glycosidases in Experimentally Diabetic Rats R.Hosna, M.Balbaa Optimization of Organic Acid Extraction Protocols for MALDI typing of <i>Staphylococcus aureus</i>	Economic Impact of the July 2006 War on the Agricultural Production in Lebanon: An Inter-temporal Assessment Approach M. RagyDarwish, Diana Zarif, CarineElya, Nadim Farajallah Will Nature-Based Tourism Prosper Sustainable Development and Ecological Preservation? An Economic Optimization Approach D. Zarif, M.R. Darwish, P. Al-Khoury, I. Becheur Board of Directors Effects on Financial Distress: Evidence from Family Businesses in Lebanon C.Salloum, C. Schmitt and E. Bouri Economics and the Exact Science Complex J.Hammoud	Spatial Analysis of Ibrahim River Watershed: Environmental Changes During the Last Four Decades Assaker A.; Probst, J.L., Darwish T., Teisserenc R., Faour G The impact of the creation of a Water Users Association (WUA) on the development of Marjeyoun-Khiam Plain, Lebanon Georges Gharlos, Carlos Youssef, Najib El Haddad Secondary Pollen Presentation in Bellflowers Revisited: The Curious Case of the Eastern Mediterranean ... M.S. Al-Zein, L. J. Musselman Potential of <i>Opuntia ficus-indica</i> as a biointegrator of atmospheric pollution



	H. El Hajj, Tokajian, Sima, B. Wex		E. El Hayek, B. Lartiges, A. El Samrani, V. Kazpard
<b>Time</b>			
5:00 – 6:30 pm	<p><b>Room 1</b></p> <p>The effects of the exposition to Captian, a fungicide, on mammalian slow-twitch skeletal muscle W. Ramadan, W. Darwich, H. Khachfe, H. Akhdar, M. Kobeissi, V. Bach, W. H. Joumaa</p> <p>Identification and Characterization of Novel Anticancer Sesquiterpene Lactones Isolated from the Indigenous Middle Eastern Plant <i>Achillea falcata</i> R. Tohme, L. El-Aaraj, H. Muhtasib, T. Ghaddar, N. A. Saliba and N. Darwiche</p> <p>Enumeration of Picrocyanobacteria in the Sargasso Sea (USA) and a Freshwater Ecosystem (Annaya, Lebanon) Using Quantitative Real-Time PCR Based on hcpGene S. Mehanna, G. Bullerjahn, and B. Wex</p> <p>An Investigation into the effects of Glucosinolates and their degradation products on human colorectal adenocarcinoma cells A. Janbein, O. Itani &amp; J. Attieh</p> <p>The Role of Claudins in the Increase in Paracellular Permeability Induced by TNF <math>\alpha</math> in Caco-2 Cells E. El-Darzi, O. Itani</p> <p>Gallotannin induces senescence and DNA damage in colon cancer cell lines R. Halabi, R. Abou Merhi, M. Ocker, H. Gali-Muhtasib</p>	<p><b>Room 2</b></p> <p>A Robust Binaural Sound Source Localization Approach K. Youssef, S. Argenti and J. Zarader</p> <p>An Evacuation Strategy during Disasters: Application for Greater Beirut Area C. El Khoury, R. Ghizzawi, R. Harfouche, J. El Khoury, J. Arnaout</p> <p>Numerical analysis of stability of a rock mass in Lebanon under seismic conditions M. Abdallah, I. Shahrour &amp; F. Hage Chehade</p> <p>Faisabilité de la mesure de champs par stéréocorrélation d'images conditions restrictives. Application aux vibrations de pièces minces en Usinage Grande Vitesse. T. Webbe, L. Arnaud, G. Dessein</p> <p>Developing a Didactic Single/Three Phase Motor Controller using Thyristors B. Nehme, H. Serhan</p>	<p><b>Room 3</b></p> <p>Language Frames, Cognition and Behaviour H. Al-Khatib</p> <p>Investigating Difficulties Faced By Grade 1 To 6 Students While Learning Geometry Based on the Lebanese Curriculum's Objectives and Content A. Minas Keuroghlian</p> <p>Facebook© as an Educational Tool in University Science Courses: The Case of Ecology at the Lebanese American University A. H. Jammoul, M. Billah M. Fayad, M.S. Al-Zein</p> <p>Gender, Language and Science: Myth or Methodology? D. Dakakni</p> <p>A Study of the Alignment between the Lebanese Secondary-Level National Math Exams for the Literature and Humanities Track and the Reformed Math Curriculum I. Ostia, L. Sleiman</p> <p>Étude exploratoire des conceptions épistémologiques des enseignants universitaires de sciences, d'une faculté de science Libanaise et francophone, concernant la science et son enseignement R. El Khoury, S. Boujaoude, F. El Hage</p>

**Saturday, April 6, Crowne Plaza Hotel**

Time	Room 1	Room 2	Room 3
9:00 – 10:00 am	<b>Keynote presentations</b>		
	<b>Prof. Francesco Cappello:</b> Molecular chaperones and Chaperonopathies: The involvement of Hsp60 in organ homeostasis and mechanisms of disease		
	<b>Prof. Angelo Leone:</b> Inflammation		
10:00 – 11:00 am	<p>Molecular Typing of <i>Candida albicans</i> Isolates from Lebanese Hospitals in Correlation to: Phenotypic Identification, Epidemiology, Antifungal Resistance ... I. Bitar, S. Tokajian, R. Khalaf</p> <p>Caractérisation de biomarqueurs d'exposition au benzo(a)pyrène par spectrométrie de masse quantitative M. Ibrahim, L. Kuhn, P. Hammann, Z. Dagher, R. Chahine, E. Leize</p> <p>DCQ is a hypoxia-activated drug that induces ROS-mediated apoptosis and reduces breast cancer ... K. Ghattass, S. El-Sitt, K. Zibara, S. Rayes, M. M. J. Haddadin, M. El-Sabban and H. Gali-Muhtasib</p> <p>Cloning And Purification Assays Of The Human Recombinant Stem Loop Binding Protein (SLBP): An Essential Protein Regulating Histone mRNA ... M. Abd el Baki, M. Al-Sayed, Hala Chamieh</p>	<p>The Collective Approach to Culture E. Jammal</p> <p>Emergence of Business Team Leaders: Virtual Groups in MENA C. Akhras</p> <p>Toward a New Strategy for Business and IT Alignment G. Abboudeh, P. E. Abi-Char</p> <p>Characteristics of Process Reengineering Evolutionary Models: Theory and Related Research B. Hussein</p>	<p>Impact of agricultural practices on water resources. A case study of ten potato fields in the central Bekaa Valley, Lebanon. C. DAOUa and R. ABDOb</p> <p>Assessment of Metal Concentration in Lebanese Marketed Canned Food S. Ibrahim Korfali and W. Abou Hamdan</p> <p>Study of complex coacervation between protein/polysaccharides systems: conditions for ... Barbar, R., Neim, S, El-Hajj, J., Yahchouchi, N., Hosri, C., Ouaini, N</p> <p>Molecular Gastronomy in Lebanon Barbar, R. a, Barakat, A. M. a, Wakim. L. a, This, H</p> <p>A cafeteria diet worsens alimentary obesity and its metabolic consequences in mice N. Zeeni N, C. Dagher-Hamalian, W. H. Faour</p>
11:30 – 1:00	<p>Molecular mechanisms of hypertension-induced hypertrophy and leptin expression in vascular smooth muscle N. Soudani; C. Ghantous; Z. Farhat; M. Harb; A. Harb; S. Jabak; L. Dib; A. Zeidan</p>	<p>Preparation and Characterization of liposomes encapsulating eugenol by the ethanol injection method C. Sebaaly, M. Sherry, N. Khreich, A. Jraij, C. Charcosset, H. Greige-Gerges</p>	<p>Mg-based Hydrides for Energy Storage A. F. Al Alam, S. F. Matar, N. Ouaini</p>

	<p>Serine protease homologs are central regulators of complement activation in the malaria vector ... Yassine H1, Povelones M, Kamareddine L, Christophides GK and Ostia MA</p> <p>The Effect of Thymoquinone on the Antitumor and Proapoptotic Activity of Topotecan in Human Colorectal Cancer Cell R.Khalife, S. Risk, R. Fakhoury</p> <p>Glucagon-Like-Peptide Receptor and Insulin Receptor Signaling upon Treatment of Diabetic Rats with Insulin, Exendin-4 or Selenium S.Abo-Najem, M. Sabban, G.Barakat, M. E. Moustafa</p> <p>Effects of Selenium, Exendin-4, and insulin on selenoproteins expression in the liver of diabetic rats T. El Khatib, G. Barakat, M. Sabban, M.E. Moustafa</p> <p>Sensitivity of Human Acute Myeloid Leukemia Cells to Human Recombinant Arginase I (Co)-PEG5000 [HuArgI (Co)-PEG5000]-Induced Arginine Depletion R.Tanios, A. Bekdash, E.Kassab, E.Stone, G. Georgiou, A.Frankel3, R.Abi-Habib</p>	<p>Polysaccharides of different species of brown and red algae growing on the Lebanese coast: Isolation, structural features with antioxidant, anticoagulant &amp;... C. Sebaaly, N. Karaki and H.Kanaan</p> <p>BerberisLebanoticextractinduces apoptosis by a cox-2dependent mechanism S.Diab, R.Azar, F. Ossely, A.Saab, B.Liagre, M.Diab-Assaf</p> <p>Cyclooxygenase Inhibition Partly Mediates the Anti-inflammatory Properties of Few Lebanese Medicinal Plants L.El Hajj, C. Karam, M. Mroueh, C. Daher, W. Faour</p> <p>eIF4E/4E-BP Ratio during Colorectal Carcinogenesis About-Khouzam Raefa, Habib Khaled, Bitar Nizar, Karam Walid, Dia-Assaf Mona, Azar Rania</p> <p>The Antioxidant Properties of Some Herbal Infusions in the Lebanese Market Sassine J, Mroueh M, Daher CF</p>	<p>Receptor mediated transcytosis for enhancement of tumor penetration by drug loaded nanoparticles M. H. El-Dakdouki; a E. Puré; b X. Huang</p> <p>Removal of Chromate and Phosphate Anions Using Polypyrrole Polymer D. Al Khalili, H.H. Hammud and I.I. Abbas</p> <p>Synthesis &amp; biological evaluation of pyrimidine-based nucleosides for diabetic nephropathy A. Koubetssi, N.Chaaban, R.Hajjar, A.Eid and K.Bouhadir</p> <p>Comparative Analysis of Lead and Cadmium Levels in Various Brands of Canned and Processed Meat Products in Lebanon P.J. Obeid, C.Saliba, M.Younis, S.Aouad, J. El-Nakat</p> <p>Removal of malachite green dye from water using bio-char prepared by hydrothermal carbonization of pine needles A.Shmait</p>
--	--	---	---

<p><b>Time</b> 2:00 - 4:00 pm</p>	<p><b>Room 1</b> Study of the functions and the intracellular traffic of Sodium Iodide Symporter (NIS) in non-thyroid cancers. M. Bou Nader, C. Lacoste and J.Faivre</p> <p>Hyponchondriasis: A Disease of Imagined Disease A Cognitive Conceptualization M.Nawfal MD, MS</p> <p>The relation between maternal serum leptin levels and gestational weight gain, hypertensive disorders of pregnancy, gestational diabetes and postpartum ... G.M. El-Kassas, F. AF. El-Sahn, S.A. Nossier</p>	<p><b>Room 2</b> Multi-Version Program Analysis of Refactoring Transformations Y. Hassoun</p> <p>Curriculum Based Course Timetabling H. Jazzar, N. Mansour</p> <p>A Biologically Inspired Tuning Algorithm for Multivariable Genetic –Fuzzy Systems I. Kouatli</p>	<p><b>Room 3</b> Targeted Functional Nanomaterials for Advanced Biomedicine: Detection and Molecular Imaging of ... K.Boubbou, M.El-Dakdouki, M.Kamat, R.Huang, b G.S. Abela, M.Kiupel, D. Zhu, and X.Huang</p> <p>Chemokine C Receptor 7 (CCR7): New players (NFAT, SPI, miR-21) regulating its expression in mature dendritic cells C. Al Akoum, H. Fayyad-Kazan, H. Hachem, B. Badran</p> <p>Molecular Cloning, Characterization and Genetic and Epigenetic Regulation of the Human IL-21 Promoter H. El-Said, H. Fayyad-Kazan, F. Layalb, E. Hamade, H. Nader, B. Badran</p>
---------------------------------------	---	--	--



	<p>Smoking Patterns among University Students in the Rural Bekaa Province of Lebanon N.Farhat, W. Abou Yassin and S.El Khatib</p> <p>End Stage Renal Disease is Not Associated with a Higher Likelihood of Hypercoagulable Disorders F.El Chaer, C. Bedran, EK. Peden, MG.Davies, AB.Lumsden, EJ.Arbid, JJ. Naoum</p> <p>La protéine Core du Virus de l'Hépatite C diminue l'expression de la phosphatase SHIP2, et conduit à la perte de la polarité cellulaire. A.Awad, S.Sar, R.Barré, C.Cariven, M.Marin, J.P. Salles, C.Erneux, D.Samuel et A.Diagne</p> <p>Mutant Prevention Pharmacodynamic Parameters of Carbapenems against Clinical Isolates of ... Dahdough E., Shoucair SH., Daoud Z</p> <p>Effect of serial subcultivation on the ability of human adipose derived-stem cells to proliferate and ... W.Shebaby, J. A. Di Battista, E. Hamaide, F.Saad, E.Abdalla and W.H. Faour</p>	<p>Optimal Dimension Resolution in Latent Semantic Indexing F.Yamout, I. Moghrabi</p> <p>Test For Primality by the Generalized Fibonacci and Lucas Sequences I.H. Kaddoura and S.Abdul-Nabi</p> <p>A Probabilistic Version of the Tits Alternative R.Aoun</p> <p>Estimating the distance to the Cube through the restricted invertibility principle P.Youssef</p> <p>A Posteriori Analysis Of Iterative Algorithm For Nonlinear Problems C.Bernardi, J.Dakroub, G.Mansour, T.Sayah</p>	<p>Applying homogenous catalysis to the synthesis of peptidomimetics J.Aridi, R.Garland, J.Illlesinghe, B. Van Ierop, E.Teoh, A.J Robinson</p> <p>Studying the aromatic profile of the must and wine Syrah in function of geographic origin of the grapes S. Azzi-Achkouty1, N. Estephan1, N. Ouaimi, D. N. Rutledge2</p> <p>Separation of Bi(III) from Cu(II) by XAD-1180 resin containing N.Belkhouche*, N.Benyahia</p> <p>Effects of Different Surfactants on Indomethacin Microspheres T.Maarawi, D.Moussa, R.Kassab, P.Yammine</p> <p>Investigation of the Inhibiting Effect of Urea and Thiourea on the Corrosion of Mild Steel in Acidic Solutions. H.T. Rahal, A.M. Abdel-Gaber, G. Younes</p>
--	--	--	--

<b>Time</b>	4:30-6:15 pm		
	<p><b>Room 1</b></p> <p>A new and simple method to isolate human adipose derived stem cells of mesenchymal origin W.Shebaby, J. A. Di Battista, E.Hamade, F.Saad, E.Abdalla and W. H. Faour</p> <p>Uncovering the role of tau proteins in microtubule reorganization in podocytes M. Asmar, M. Abboud, K. Braysh, A. Eid, W. Faour</p> <p>Detection and Analysis of Multi Drug Resistant Gram Negative Bacilli in the Waste Water of a General Hospital in Beirut K.Kfoury, R. Abdel-Massih, E.Salem, Z.Daoud</p>	<p><b>Room 2</b></p> <p>Theoretical studies of a diatomic diatomic florid of alkaline-earth compound F. Jardali and M. El Korek</p> <p>Ab initio calculations and rovibrational studies of the calcium halides diatomic molecules H.Jawhari and M.Korek</p> <p>Prospects of Laser cooling in the Yttrium-Nitride Molecule from Relativistic Ab-initio Calculations A. Farhat, M. Korek, Miguel A. L. Marques, S. N. Abdul-al</p>	<p><b>Room 3</b></p> <p>Copper Adsorption onto NaX Zeolite Zeinab Ezzeddine, Isabelle Batonneau-Gener, Hussein Hamad, Yannick Pouilloux, Zeinab Saad, Veronique Kazpard</p> <p>Removal of Malachite Green Dye from Aqueous Solution by Cobalt Phenanthroline Nanostructure H.Hammud, N.Noubani, B.Hamaoui</p> <p>Water Analysis of Persistent Organic Pesticides by SPE-GC/MS in South Lebanon L.Youssef, G.Younes, A.Kouzayha and F. Jaber</p>

	<p>Surveys of patient dose and image quality in selected hospitals for establishing a dose reference level in diagnostic radiology examinations in Lebanon                  L. El-Nachef, Y. I. Assafiri, O. El-Samad, M. Abbas</p>	<p>Theoretical calculation with rovibrational study of a metal nitrate                  S.Mahmoud, M.Bechelany, P.Miele and M.Korek</p>	
<p>Molecular Epidemiology of ESBL-producing Escherichia coli and Klebsiellapneumoniae in North ...                  Salem, SE, La Ragine, RM, Cottell, A, Ritchie, J, Daoud Z</p>	<p>Mercury's Exosphere: MESSENGER and ground-based data.                  N. Mouawad , R. M. Killen , M Burger , W.E. McClintock , R. J. Vervack, Jr. , D. Potter , A. Sprague</p>		
<p>Effets des inhibiteurs de la télomérase sur l'expression de l'alphafetoprotéine et sur le pouvoir métastatique des cellules C3A du carcinome hépatocellulaire : ...                  R. Tahtouh, A. Azzi, N. Alaaeddine, L. Wardi, R. Serhal, G. Hilal</p>	<p>A new analytical method to calibrate well-type NaI (TI) and HPGe detectors                  M.Sabsabi, T.Ibrahim, M.Abbas</p>		
	<p>Exploring the Potential Energy Surfaces of Biological Molecules Using Population Transfer Spectroscopy                  C.Seatby, A.Svendsen, J. A.Stearns and T.Rizzo</p>		

## 19<sup>th</sup> LAAS International Science Conference

### POSTERS

April 5, 9:00 a.m. – 11:00 a.m.

Lebanese American University, Business Building Lobby

<b>Biology</b>	Keratin degradation by bacteria Olama, Z.; Yusef, H. and Fayad, L.	The Effect of Ethanol on Paracellular Permeability and Claudin Expression in Caco-2 Cells during the Course of Differentiation Elias Assaf , Omar Itani
	Production of pigments by bacteria Shatila, F.; Holeil, H. and Yusef, H	Epidemiological Typing & Characterization of Streptococcus pyogenes in Lebanon Karaky, Nathalie & Tokajian, Sima
	Antioxidant activities of flower extracts and essential oils of Carthamus tinctorius and Borago officinalis Nidhal Salem, Wissal Dhifi, Kamel Msaada, Ferid Limam, Marc El Beyrouthy and Brahim Marzouk	Influence of whey protein isolates hydration state and denaturation on acid gel formation Marie Céleste Karam, Claire Gaiani, Chadi Hosri, Raza Hussain, Jennifer Burgain, Reine Barbar, Joel Scher
	NMDA receptor activation increases PDE4A/B activity due to a PKA-dependent phosphorylation of PDE4A5 and PDE4B1/3 in rat primary cortical cultures; PKG keeps PDE4A5 activity elevated under control conditions Hassan S. Hajjhussein , S. W. Bahouth , George Baillie , Miles Houslay , and James M. O'Donnell	Time and Thyroid hormone Coordination of Cell Differentiation During Chondrogenesis of Forelimbs of Tadpoles of Ranaridibunda Frogs Kourani, Kawthar and Moussad, Essam El Din
	Effect of a Candida albicans cell wall protein mutation on yeast phagocytosis by mammalian macrophages Lakis Emile, Khalaf Roy, El-Sibai Mirvat	Characterization of the ubiquitin ligase activity of human Upf1: the central effector of Nonsense mediated mRNA decay K. Ayoub, M.T. Saliba, M. Al-Sayed, H. Chamieh
	Micropalaeontological investigation of the Mdairej Formation or "Falaise de Blanche" Sibelle Maksoud, Bruno Granier and Dany Azar	Effect of Daucus Carota major compound on malignancy as well as metastasis in a screen of cancer cell lines Najm Paul; Mroueh Mohammad, Daher Costantine and El-Sibai Mirvat
	Cetoniidae (Coleoptera) of Lebanon Younna Salame, Raymond Geze, Dany Azar	Effect of Nigella Sativa Oil Treatment on Aryl Sulfatases A and B in Streptozotocin-induced Diabetic Rats Rima Samarji and Mahmoud Balbaa
	The Regulation of RhoA by StarD13 in Focal Adhesions is Essential for Astrocytoma Cell Motility Khalil Bassem, Bechara A. Saykali, Mirvat El-Sibai	Effect of Daucus Carota fractions on cancer cell malignancy and metastasis Zgheib Perla; Mroueh Mohammad, Daher Costantine and El-Sibai Mirvat
	Over-expression of Connexin 43 induces partial Mesenchymal-Epithelial Transition in breast cancer cells. Elia T. El Habrea, Marwan E. El-Sabbanb and Rabih S. Talhouka	The Antioxidant Effects of Wild Carrot Oil Fractions. Shebavy W, Daher CF, El-Sibai M, Smith KB, Karam MC, Daher JC, Jeha M, Mansour A, Mawla S, Taleb R, Diab-Assaf M., Mroueh M
	Role of the retinoblastoma protein, pRb, in the development of the olfactory system Jaafar Carine, Al Lafi Sawsan, Ghanem Noël	Effect of Anthrax Toxin on Rho GTPases and Cell Motility S. Al-Dimassi, R. Abi Habib, M. El-Sibai

1

	Nanoparticle Encapsulation of Thymoquinone Enhances its Anticancer Potential Isabelle Fakhoury, Kamal Bou Hadir, Walid Saad, Hala Muhtasib	Community Associated Methicillin-Resistant Staphylococcus aureus Clonal Complex 80 Type IV (CC80-MRSA-IV): The Middle Eastern Clone! Houda H. Harastani and Sima T. Tokajian
	Sea Cucumber Extracts Selectively Inhibit The Proliferation Of Normal Rodent Mammary Cells and Partially Revert The Tumor Phenotype Of Breast Cancer Cells. Kareh Mike, Al-Ghadban Sarah, Nahas Rana, Al-Araj Lamis <sup>3</sup> , Saliba Najat, El-Sabban Marwan, Talhouk Rabih	Studying the role of Rho GTPases in the radiation resistance of stem-like cancer cells in neuroblastoma El-Hassan Marwa, Tamara Abou-Antoun and Mirvat El-Sibai
	Comparing the Anticancer Properties and Sesquiterpene Lactones Profile in Wild versus Cultivated Achillea falcata Rita Tohme, Lamis El-Aaraj, Hala Muhtasib, Salma N. Talhouk, Nadine Darwiche, and Najat A. Saliba	A Comparative Study of the Antiproliferative Effect of Kohlrabi and Green Cabbage on Colorectal Cancer Cell Lines Valia Zazour, Omayr Tarras, Sandra Rizk
	Fragile sites and Cancer: Molecular Mapping of aphidicolin-induced hotspots of breakages at the common fragile site FRA11D Khalil, Cynthia, El Achkar, Eliane	Protective effect of saffron extract against oxidative damage induced by doxorubicin compared to electrolysis in isolated rabbit heart N. Chahine, J. Hanna, H.Makhlouf, L.Duca, L.Martiny, R. Chahine
	Validity of Serum Surfactant Protein D as a Lung-Specific Biomarker in Monitoring Asthma, Chronic Obstructive Pulmonary Disease and Chronic ... R. Jounblat, M Waked, Z. Akiki, P. Salameh , H. Tayoun, I. Tornøe , G.L. Sørensen, S. Chamat	Design, hemisynthesis and biological evaluation of ferutinin analogs as potent agents for breast cancer therapy Rémi Safia, Evelyne Delfourneb, George Hilal, Youssef Diaba, Mona Diab Assafa, Fadia Najjar
<b>Engineering</b>	Urban Planning and General Directory Plans Case Study: Baalbeck City M. Abboud*; J. Haidar; A.H. Machlab	A Throughput Simulation of Port of Beirut Samar Hallab, Caline El Khoury, Jean-Paul Arnaout
	An Evaluation of Pavement Roughness Effects on Vehicle Acceleration and Fuel Consumption Ahmad Ghaddar, Makram Daou, John El Khoury, Barbar Akle	Detection of Preterm Deliveries using EHG signal. Proposition of a New Parameters Selection Method. Dima Alamedine <sup>1, 2</sup> , Mohamad Khalil <sup>2</sup> , Catherine Marque
	A Hybrid Image Despeckling Technique Based on Wavelets and Adaptive Kuan Filter Adib Akl, Charles Yaacoub	Study of two steganography methods and their enhancement by using chaotic sequences D. Battikh, S. El Assad, B. Bakhache, O. Deforges, M. Khalil
	Three Dimensional Numerical Modelling Of Piles Group Under Seismic Loading in Frictional soil : Inclination Effect Fadi Hage Chehade, Marwan Sadek and Douaa Bachir	
<b>Agriculture; Environment; Food</b>	Contribution to the in vitro and in vivo propagation of Origanum syriacum and Origanum ehrenbergii growing wild in Lebanon Gilbert Elian, Marc El Beyrouthy, Chantal Abou Jaoudeh, Lamis Chalak	SOME MEDICINAL & AROMATIC PLANTS FROM LEBANON Rabia Wahid Sfeir

Essential oil composition of <i>Teucrium creticum</i> L. growing wild in Lebanon Arnold Nelly <sup>1</sup> , Antoine Abou-Kais <sup>2</sup> , Fabrice Cazier <sup>3</sup> , Marc Beyrouthy <sup>4</sup>	Toxicological effects of Red 195 Dye on oxidative enzymes in tilapia <i>Oreochromis niloticus</i> Insaf Ayadi, Luis Felix, Imed Regaya, Marc El Beyrouthy; Francisco Peixoto, Wissem Mnif
Assessing the efficacy of the essential oils of <i>Thymbra spicata</i> , <i>Coridothymus capitatus</i> , <i>Satureja cuneifolia</i> , and <i>Origanum syriacum</i> insecticides and repellents against <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) Charbel Fakhr, El Beyrouthy Marc, & Nemer Nabil	Impact of the Addition of Carbon Co-Substrates on the Aerobic Biodegradation of Carbamazepine by the Fungus <i>Trametes versicolor</i> S. Semrany, L. Favier, H. Djelal, S. Taha, A. Amrane
Chemical composition and in vitro anthelmintic effects on <i>Haemonchus contortus</i> of <i>Thymus capitatus</i> from Tunisian south Ramzi Boubaker Elandalousi <sup>+,b*</sup> , Hafidh Akkari <sup>a</sup> , Fatma B'chir <sup>c</sup> , Mohamed Gharbi <sup>a</sup> , Moez Mhadhbi <sup>a</sup> , Soufia Awadi <sup>d</sup> , Marc El Beyrouthy <sup>e</sup> and Mohamed Aziz Darghoutha	THE MARBLED SPINEFOOT RABBITFISH <i>Siganus rivulatus</i> : THE PROMISE OF A MARINE ALGAEVORE Imad Patrick Saoud
Antimicrobial activity and chemical composition of the essential oil of <i>Coridothymus capitatus</i> (L.) Reichenb. fil from Lebanon and comparison with its major components Aline Gebrayel, Monay Al Hafi, El Beyrouthy Marc, Arnold-Apostolides, Lara Hanna Wakim, Naim Ouaini	Future of Renewable Energy in Lebanon as We Head towards the Gas and Oil Era Ibrahim Assi and Ali Assi
Seed germination of <i>Spartium junceum</i> growing wild in Lebanon Mira Boustany, Marc El Beyrouthy	Nutritional Composition And Technological Characterisation Of The Lebanese Kishk Dairy Product alameh Ch., Hosri Ch. & Barbar R
Chemical composition of the essential oil of <i>Cupressus sempervirens</i> leaves growing in Tunisia Wissal Dhifi, Nidhal Salem, Ines Chamroukhi, Marc El Beyrouthy and Wissem Mnif	Phthalates Exposure: Impact on Nutrition/Human Health and Environment Georges Rammouz <sup>a</sup> , Carlos Youssef <sup>b</sup> , Mazin Moufarij <sup>a</sup> and Najib Haddad
Study of BTEX Compounds in Surface Water of Nahr Ibrahim River Carlos Youssef, Georges Rammouz, Mazin Moufarij, Georges Gharios, Rami Achkar, Emile Saadeh, Salam Messaikeh, Georges Gharios <sup>1</sup> and Najib El Haddad	Study of the cultural effect on the relationship between odor and color in Lebanon Barbar, R.a, Zeaiter, R. a, Maric, Y. b, Jacquot, M.b
Estimating turbidity in the coastal area of Tripoli (Lebanon) with neural networks N. Kabbara and M. Awad	Consumers and food safety: Comparison between Lebanon and Australia Lara Hanna Wakim, Marc El Beyrouthy, John Coveney, Loreen Mamerow, Anne Taylor, Paul Ward, Julie Henderson and Samantha Meyer



## 19<sup>th</sup> LAAS International Science Conference

### POSTERS

April 6, 10:00 a.m. – 12:00 p.m.

### CROWNE PLAZA

<b>Health; Medical; Pharmacy</b>	Cigarette and Waterpipe Smoking Patterns Among University Students, a Cross-sectional Lebanese Study, 2010-2012 Mazin A. Moufarij, Georges Saade, Zaher Radwan, Jamil Halabi, Najib El Haddad	Assessing the emotional impact and perception of human body dissection by medical students at the American University of Beirut Abdo Jurjus, Inaya Hajj Hussein, Hisham Daouk, Doreid Oueidat and Rosalyne Jurjus
	The Effect Of Gender And High-Fat Diet On Expression Of Uncoupling Protein 3 In Apolipoprotein E Knockout Mouse Heart Jihad Hawi, Hua Lin, M.-Saadeh Suleiman	Radioprotection of patients treated by radioiodine and public around them Z. Khansa, M. Haidar , Mahmoud I. Abbas
	Differential Changes In Pro And Anti- Apoptotic Protein Expression In Mice Fed High-Fat Diet Jihad Hawi, Hua Lin, Myriam Cherif, Chris L. Jackson, Gianni D. Angelini, M.Saadeh Suleiman	Caloric Restriction Decreases Telomerase Activity and Enhances its Inhibitors Response on Breast Cancer Cells: Possible Modulation of Mitochondrial Metabolism Layal Wardi, George Hilal
	Differential expression of prostaglandin type E receptors (EP1, 2, 3 and 4) mRNAs during the osteogenic process of human adipose-derived stem cells Wassim Shebaby, Eva Hamade, Fadi Saad and Wissam H. Faour	Effect of free radicals generated by argyle smoke compared to cigarette smoke: in vitro and ex vivo study Ranin Zein, Jean Hanna, Sara Fahd, Fadia Najjar and Ramez Chahine
	Genetic and haplotype analysis of CDAN1 gene in a Lebanese family with congenital dyserythropoiesis anemia type I (CDAI) Wissam H. Faour, Wassim Serhal, Riyad Akoum and Hussein Farhat	Novel and Sensitive Spectrophotometric method for the Determination of Tetrahydrocurcumin: A versatile cosmeceutical Riyad Ahmed Al Okab
	Cross-disciplinary Learning of Histology, Histopathology and Clinical Manifestations Through Virtual Microscopy: OUWB School of Medicine Experience Inaya Hajj Hussein, Jennifer Eastwood, Rajwont Malhotra	
<b>Computer Sc; Mathematics</b>	A comparison study between the Theoretical perception of IT ethics and the actual practice in Lebanon Issam Kouatli	Query Reformulation Using Cluster Buckets Fadi Yamout, Issam Moghrabi
	Mining Breast Cancer Genetic Data Rouba Zantout, Nashat Mansour, Mirvat El-Sibai	Convergence analysis of numerical schemes for a degenerate chemotaxis model with general tensors G. Chamouna,b, M. Saada, R. Talhoukb
	An implementation of matrix transposition using SSE instructions Ahmed Sherif Zekri	Stability Analysis of Control Systems: The Extended Routh Array and Further Challenges Ziad Zahreddine

**April 6, 2:00 – 4:00 p.m.**

**CROWNE PLAZA**

<b>Chemistry; Physics</b>	Innovative Methodology for Desalination of Water Based on Modified Silica Husein Essa, Ismail I. Abbas and Hassan H. Hammud	Electronic structure and rovibrational studies of diatomic Zinc compounds Abir Youssef and Mahmoud El Korek
	Synthesis and characterization of uracil- and thymine-based hydrazones for diabetic nephropathy Nourhan Chaaban, Rima Hajjar, Ali Koubeissi, Assaad Eid and Kamal Bouhadir	Rovibrational study and dipole moment calculation of the molecule Arsenic Monochloride AsCl T. Harb, M. Korek, K. Mourad, S. N. Abdulal
	Investigating the Role of MicroRNAs in the Expression of Leukemia Inhibitory Factor (LIF) Marwa Sleiman, Hussein Fayad-Kazan, and Bassam Badran	Electronic structure with dipole moment of diatomic helium compounds Sahar Kontar and Mahmoud El Korek
	Investigating the Role of MiR-24, MiR-181/26 and MiR-27/128 in Interferon Gamma (IFN- $\gamma$ ) Expression Maya Fakhry, Eva Hamade and Bassam Badran	Theoretical calculations of Zinc halide diatomic molecules Soumia Elmoussaoui and Mahmoud El Korek
	Pre-concentration of Bismuth using Emulsion Liquid Membrane - Technique (ELM) Nasr-Eddine Belkhouche, Nacera Benyahia	Effect of size and shape of single silver nanoparticles on the optical response S. Marhaba, H. Miari, S. Abboudy
	Copper Adsorption onto NaX Zeolite Zeinab Ezzeddine, Isabelle Batonneau-Gener, Hussein Hamad, Yannick Pouilloux, Zeinab Saad, Veronique Kazpard	Optical properties of core/shell Ag-Au nanoparticle S. Marhaba, I. Haddad, S. Abboudy
		Radiation protection and Quality Assurance Requirements for the Establishment of a New Cyclotron Facility Mohamad H. M. Tamim, Hanna Balaa, Mahmoud I. Abbas
<b>Social Sc.</b>	Virtual Challenges: Online Leadership Success in MENA Caroline Akhras, Chukri Akhras	