

## 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	Functional epistatic interaction between rs6046G>A in F7 and rs5355C>T in SELE modifies systolic blood pressure levels S. El Shamieh	New method of multiple model estimation using belief function theory G. Nasserddine	Antimicrobial activity and chemical composition of the essential oil of <i>Daucus carota</i> subsp. <i>maximus</i> growing wild in Lebanon M.Khoury, M. El Beyrouthy, N.Ouaini, D.Stien
	Antimicrobial Potential of Lebanese Cedar Extract Against Human Pathogens and Food Spoilage Microorganisms Olama, Z.; Hanafy, H. and Ghanem, S.	Pumped-Storage Hydro Electricity System Y.Zaatar, J.Al Souhail, and A. Assi	Chemical composition and insecticidal properties of essential oils of four Lamiaceae plants growing wild in Lebanon against <i>Rhynchophorus ferrugineus</i> M.Termos, N.Nemer, Nelly A & M. Beyrouthy
	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	Emission Tomography using a Regularized Image Reconstruction Technique for high density elements L. Hamawi, W. Hassan, S.Barre, S. Legoupil	Antimicrobial activity and chemical composition of the essential oil of <i>Origanum syriacum</i> L. from Lebanon and comparison with its major components S.Chedraoui, M.Al Hafi, L. Hanna Wakim, - Apostolides, M.El Beyrouthy
	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	Advanced Abdomen Development for Crash Test Devices A. Hage-Diab	The occurrence of burrowing nematodes on banana in Lebanon and their control using plant extracts and ... S.K. Ibrahim, L.Ibrahim, I.Choueiry
	The effect of IL-6 on ox-LDL induced immune-modulation in atherosclerotic patients and healthy ... N.Kaddour; S.Bazzi, ; M.Karam,	Nanotextured Silicon for Biomedical Applications M.Hajj-Hassan	Status of Heavy Metals in Water and Bed Sediments of Al-Ghadir River, Mount Lebanon A. Mcheik, M.Fakih, N. Bousserhine, J.Toufaily, E.Garnier-Zarli, T. Hamieh
	The Effect of StarD13 on Colorectal Cancer Proliferation and Invasion A.Nasrallah; M.El-Sibai	Modeling ITS Communication in High Mobility Scenarios H.Abdallah, W. Itani	Sea water chlorophyll-a extraction using Landsat ETM+ satellite image and Artificial Neural Network Mohamad Awad, Nijad Kabbara
	Proteomic Approach for <i>S. aureus</i> Typing D.Awad, S.Tokajian, and B.Wex	3D modeling of bond-slip relationship between concrete and reinforcement by ABAQUS C.A. Issa, O.Y. El Masri	Dynamique des stocks de carbone dans les sols: identification des usages et des pratiques atténuant les effets du changement climatique en région méridionale N. Boukhoudoud

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

### Crowne Plaza Hotel

2:30 - 3:30 pm	<i>Panel</i> on "Research, science policy, and impact" Drs. <i>Hassan Charif</i> , Antoine Zahlan, Sari Hanafi, Elham Kallab
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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 Haidar, Ghizlaine Bendriss, Khaled Machaca, Hala Gali-Muhtasib	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	Spatial Analysis of Ibrahim River Watershed: Environmental Changes During the Last Four Decades Assaker A.; Probst, J.L., Darwish T., Teisserenc R., Faour G
	Control of adult neural stem cells (NSCs) by the retinoblastoma protein, pRb in vitro Hayek Dayana, Al Lafi Sawasal, Saab Raya, and Ghanem Noël	Will Nature-Based Tourism Prosper Sustainable Development and Ecological Preservation? An Economic Optimization Approach D. Zarif, M.R. Darwish, P. Al- Khoury, I. Becheur	The impact of the creation of a Water Users Association (WUA) on the development of Marjeyoun-Khiam Plain, Lebanon Georges Gharios, Carlos Youssef, Najib El Haddad
	Inhibition of Glycosidases in Experimentally Diabetic Rats R.Hosna, M.Balbaa	Board of Directors Effects on Financial Distress: Evidence from Family Businesses in Lebanon C.Salloum, C. Schmitt and E. Bouri	Secondary Pollen Presentation in Bellflowers Revisited: The Curious Case of the Eastern Mediterranean ... M.S. Al-Zein, L. J. Musselman
	Optimization of Organic Acid Extraction Protocols for MALDI typing of Staphylococcus aureus H.El Hajj; Tokajian, Sima; B.Wex	Economics and the Exact Science Complex J.Hammoud	Potential of Opuntiaficusindica as a biointegrator of atmospheric pollution E.El Hayek; B.Lartiges; A.El Samrani ; V.Kazpard

Time	Room 1	Room 2	Room 3
5:00 – 6:30 pm	The effects of the exposition to Captan, a fungicide, on mammalian slow-twitch skeletal muscle W.Ramadan, W. Darwich, H. Khachfe, H. Akhdar, M.Kobeissi, V.Bach, W. H. Joumaa	A Robust Binaural Sound Source Localization Approach K. Youssef, S.Argentieri and J. Zarader	Language Frames, Cognition and Behaviour H.Al-Khatib
	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	An Evacuation Strategy during Disasters: Application for Greater Beirut Area C.El Khoury, R.Ghizzawi, R. Harfouche, J.El Khoury, J. Arnaout	Investigating Difficulties Faced By Grade 1 To 6 Students While Learning Geometry Based on the Lebanese Curriculum's Objectives and Content A.Minas Keuroghlian
	Enumeration of Picocyanobacteria in the Sargasso Sea (USA) and a Freshwater Ecosystem (Annaya, Lebanon) Using Quantitative Real-Time PCR Based on <i>hcpGene</i> S. Mehanna, G.Bullerjahn, and B. Wex	Numerical analysis of stability of a rock mass in Lebanon under seismic conditions M.Abdallah, I.Shahrour & F.Hage Chehade	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
	An Investigation into the effects of Glucosinolates and their degradation products on human colorectal adenocarcinoma cells A.Janbein, O.Itani & J. Attieh	Faisabilité de la mesure de champs par stéréocorrélation d'images en conditions restrictives. Application aux vibrations de pièces minces en Usinage Grande Vitesse. T.Wehebe, L.Arnaud, G.Dessein	Gender, Language and Science: Myth or Methodology? D. Dakakni
	The Role of Claudins in the Increase in Paracellular Permeability Induced by TNF $\alpha$ in Caco-2 Cells E.El-Darzi, O.Itani	Developing a Didactic Single/Three Phase Motor Controller using Thyristors B.Nehme, H.Serhan	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. Osta, L.Sleiman
	Gallotannin induces senescence and DNA damage in colon cancer cell lines R. Halabi, R.Abou Merhi, M.Ocker, H. Gali-Muhtasib		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

### 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	Molecular Typing of Candida albicans Isolates from Lebanese Hospitals in Correlation to: Phenotypic Identification, Epidemiology, Antifungal Resistance ... I.Bitar, S. Tokajian, R. Khalaf	The Collective Approach to Culture E.Jammal	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
	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	Emergence of Business Team Leaders: Virtual Groups in MENA C. Akhras	Assessment of Metal Concentration in Lebanese Marketed Canned Food S.Ibrahim Korfali and W.Abou Hamdan
	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	Toward a New Strategy for Business and IT Alignment G.Abboudeh, P. E. Abi-Char	Study of complex coacervation between protein/polysaccharides systems: conditions for ... Barbar, R., Neim, S, El-Hajj, J., Yahchouchi, N., Hosri, C, Ouaini, N
	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	Characteristics of Process Reengineering Evolutionary Models: Theory and Related Research B.Hussein	Molecular Gastronomy in Lebanon Barbar, R.a, Barakat, A.M.a, Wakim. L. a, This, H
			A cafeteria diet worsens alimentary obesity and its metabolic consequences in mice N.Zeeni N,C. Dagher-Hamalian, W.H. Faour

Time	Room 1	Room 2	Room 3
11:30 – 1:00	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	Preparation and Characterization of liposomes encapsulating eugenol by the ethanol injection method C.Sebaaly, M. Sherry, N. Khreich, A. Jraj, C.Charcosset, H.Greige-Gerges	Mg-based Hydrides for Energy Storage A.F. Al Alam, S.F. Matar, N. Ouaini

	Serine protease homologs are central regulators of complement activation in the malaria vector ... Yassine H1, Povelones M, Kamareddine L, Christophides GK and Osta MA	Polysaccharides of different species of brown and red algae growing on the Lebanese coast: Isolation, structural features with antioxidant, anticoagulant & ... C. Sebaaly, N. Karaki and H.Kanaan	Receptor mediated transcytosis for enhancement of tumor penetration by drug loaded nanoparticles M. H. El-Dakdouki; a E. Puré; b X. Huang
	The Effect of Thymoquinone on the Antitumor and Proapoptotic Activity of Topotecan in Human Colorectal Cancer Cell R.Khalife, S. Risk, R. Fakhoury	BerberisLebanoticaextractinduces apoptosis by a cox-2dependent mechanism S.Diab, R.Azar, F.Osseily, A.Saab, B.Liagre, M.Diab-Assaf	Removal of Chromate and Phosphate Anions Using Polypyrrole Polymer D. Al Khalili, H.H. Hammud and I.I. Abbas
	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	Cyclooxygenase Inhibition Partly Mediates the Anti-inflammatory Properties of Few Lebanese Medicinal Plants L.El Hajj , C .Karam , M .Mroueh , C .Daher , W .Faour	Synthesis & biological evaluation of pyrimidine-based nucleosides for diabetic nephropathy A. Koubeissi, N.Chaaban, R.Hajjar, A.Eid and K.Bouhadir
	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	eIF4E/4E-BP Ratio during Colorectal Carcinogenesis Abou-Khouzam Raefa, Habib Khaled, Bitar Nizar, Karam Walid, Dia-Assaf Mona, Azar Rania	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
	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	The Antioxidant Properties of Some Herbal Infusions in the Lebanese Market Sassine J, Mroueh M, Daher CF	Removal of malachite green dye from water using bio-char prepared by hydrothermal carbonization of pine needles A.Shmait

Time	Room 1	Room 2	Room 3
2:00 - 4:00 pm	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	Multi-Version Program Analysis of Refactoring Transformations Y. Hassoun	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
	Hypochondriasis: A Disease of Imagined Disease A Cognitive Conceptualization M.Nawfal MD, MS	Curriculum Based Course Timetabling H. Jazzar, N. Mansour	Molecular Cloning, Characterization and Genetic and Epigenetic Regulation of the Human IL-21 Promoter H.El-Said, H.Fayyad-Kazan F.Layalb, H.Eva, N. Hussein, and B.Bassam
	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	A Biologically Inspired Tuning Algorithm for Multivariable Genetic –Fuzzy Systems I. Kouatli	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

Smoking Patterns among University Students in the Rural Bekaa Province of Lebanon N.Farhat, W.Abou Yassin and S.El Khatib	Optimal Dimension Resolution in Latent Semantic Indexing F.Yamout, I. Moghrabi	Applying homogenous catalysis to the synthesis of peptidomimetics J.Aridi, R.Garland, J.Illesinghe, B.Van lierop, E.Teoh, A.J Robinson
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	Test For Primality by the Generalized Fibonacci and Lucas Sequences I.H. Kaddoura and S.Abdul-Nabi	Studying the aromatic profile of the must and wine Syrah in function of geographic origin of the grapes S. Azzi-Achkouty1, N. Estephan1, N. Ouaini1, D. N. Rutledge2
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	A Probabilistic Version of the Tits Alternative R.Aoun	Separation of Bi(III) from Cu(II) by XAD-1180 resin containing N.Belkhouche*, N.Benyahia
Mutant Prevention Pharmacodynamic Parameters of Carbapenems against Clinical Isolates of ... Dahdouh E., Shoucair SH., Daoud Z	Estimating the distance to the Cube through the restricted invertibility principle P.Youssef	Effects of Different Surfactants on Indomethacin Microspheres T.Maarawi, D.Moussa, R.Kassab, P.Yammine
Effect of serial subcultivation on the ability of human adipose derived-stem cells to proliferate and ... W.Shebaby, J. A. Di Battista, E. Hamade, F.Saad, E.Abdalla and W.H. Faour	A Posteriori Analysis Of Iterative Algorithm For Nonlinear Problems C.Bernardi , J.Dakroub, G.Mansour, T.Sayah	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

Time	Room 1	Room 2	Room 3
4:30-6:15 pm	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	Theoretical studies of a diatomic florid of alkaline-earth compound F. Jardali and M. El Korek	Copper Adsorption onto NaX Zeolite Zeinab Ezzeddine, Isabelle Batonneau-Gener, Hussein Hamad, Yannick Pouilloux, Zeinab Saad, Veronique Kazpard
	Uncovering the role of tau proteins in microtubule reorganization in podocytes M. Asmar, M. Abboud, K. Braysh, A. Eid, W. Faour	Ab initio calculations and rovibrational studies of the calcium halides diatomic molecules H.Jawhari and M.Korek	Removal of Malachite Green Dye from Aqueous Solution by Cobalt Phenanthroline Nanostructure H.Hammud, N.Noubani, B.Hamaoui
	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	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	Water Analysis of Persistent Organic Pesticides by SPE-GC/MS in South Lebanon L.Youssef, G.Younes, A.Kouzayha and F. Jaber

	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	Theoretical calculation with rovibrational study of a metal nitrate S.Mahmoud, M.Bechelany, P.Miele and M.Korek	
	Molecular Epidemiology of ESBL-producing Escherichia coli and Klebsiellapneumoniae in North ... Salem, SE, La Ragione, RM, Cottell, A, Ritchie, J, Daoud Z	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	
	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.Alaeddine, L.Wardi, R.Serhal, G.Hilal	A new analytical method to calibrate well-type NaI (Tl) and HPGe detectors M.Sabsabi, T.Ibrahim, M.Abbas	
		Exploring the Potential Energy Surfaces of Biological Molecules Using Population Transfer Spectroscopy C.Seaiby, A.Svendsen, J. A.Stearns and T.Rizzo	