

	Thursday, March 27	Friday, March 28	Saturday, March 29
8:00 -			
9:00 9:00 -	Registration		
9:30 9:30 -		Keynote Speaker 3 Keynote Speaker 4	Keynote Speaker 7
10:00 10:00 -	Opening Ceremony		
10:30 10:30 -		Coffee Break	Coffee Break
11:00 11:00 -	Coffee Break	Biological, Medical, Pharmaceutical, Health Sciences IV Biological, Medical, Pharmaceutical, Health Sciences V Engineering III Engineering IV Food security, Environment, Agriculture II Food security, Environment, Agriculture III Social, Economic and Behavioral Sciences Theoretical and Experimental Chemistry and Physics II	Biological, Medical, Pharmaceutical, Health Sciences X Biological, Medical, Pharmaceutical, Health Sciences XI Biological, Medical, Pharmaceutical, Health Sciences XII Engineering VIII Food security, Environment, Agriculture VII Mathematics and Computer Sciences III Theoretical and Experimental Chemistry and Physics VI
12:00 12:00 -	Main Speaker		
13:00 13:00 -	Keynote Speaker 1 Keynote Speaker 2		Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences I Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences II Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences III Poster Session 2- Engineering I Poster Session 2- Engineering II Poster Session 2- Food security, Environment, Agriculture I Poster Session 2- Food security, Environment, Agriculture II Poster Session 2- Mathematics and Computer Sciences Poster session 2- Mathematics and Computer Sciences Poster Session 2- Theoretical and Experimental Chemistry and Physics
13:00 13:00 -	Lunch	Lunch	

13:30 -			
14:00		Keynote Speaker 5 Keynote Speaker 6	LUNCH
14:00 -	Biological, Medical, Pharmaceutical, Health Sciences I		
14:30 -	Biological, Medical, Pharmaceutical, Health Sciences II	Biological, Medical, Pharmaceutical, Health Sciences VI	
15:00	Biological, Medical, Pharmaceutical, Health Sciences III	Biological, Medical, Pharmaceutical, Health Sciences VII	Closing Session
15:00 -	Engineering I Engineering II	Science and Mathematics Education	
15:30	Food security, Environment, Agriculture I	Engineering V Engineering VI	
15:30	Mathematics and Computer Sciences I Theoretical and Experimental Chemistry and Physics I	Food security, Environment, Agriculture IV Mathematics and Computer Sciences II	
15:30 -	Coffee Break	Theoretical and Experimental Chemistry and Physics III	
16:00 -	Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences I	Coffee Break	
16:30	Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences II	Biological, Medical, Pharmaceutical, Health Sciences VIII	
16:30 -	Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences III	Biological, Medical, Pharmaceutical, Health Sciences IX	
16:30 -	Poster Session 1- Education and Sociologie	Engineering VII	
16:30 -	Poster Session 1- Engineering I Poster Session 1- Engineering II	Food security, Environment, Agriculture V	
17:30	Poster Session 1- Food security, Environment, Agriculture I	Food security, Environment, Agriculture VI	
17:30	Poster Session 1- Food security, Environment, Agriculture II	Theoretical and Experimental Chemistry and Physics IV	
17:30 -	Poster Session 1- Theoretical and Experimental Chemistry and Physics I	Theoretical and Experimental Chemistry and Physics V	
18:00			
18:00 -			
20:00			
20:00 -		Gala Dinner	
22:00			

Thursday, March 27

08:00 - 09:30

Registration

Room: Hall Entrance for the main conference Room

09:30 - 10:30

Opening Ceremony

Room: Main Conference Room

10:30 - 11:00

Coffee Break

Room: Hall Entrance for the main conference Room

11:00 - 12:00

Main Speaker

Room: Main Conference Room

Chair: Mouin Hamze (National Council for Scientific Research, Lebanon)

Research and Higher Education: Policy, Cooperation and the Impact of Research in the Knowledge Economy

Luigi Nicolais (UNINA, CNRx, Italy)

12:00 - 13:00

Keynote Speaker 1

Room: Annex X1

Chair: Bassam Badran (Lebanese University, Lebanon)

Genetic and epigenetic modifications in cancer result from stochastically occurring anomalies and selective pressure for cell survival

Charles Theillet (the Institut de Recherche en Cancérologie de Montpellier, France)

Keynote Speaker 2

Room: Annex X2

Chair: Abdallah Kassem (Notre Dame University, Lebanon)

Brain-Machine Interfaces for Neurorecording and Subsequent Diseases Treatment

Mohamad Sawan (Polytechnique Montréal, Canada)

13:00 - 14:00

Lunch

Room: University Restaurant

14:00 - 15:30

Biological, Medical, Pharmaceutical, Health Sciences I

Cancerology

Room: Annex X1

Chairs: Mona Diab (Lebanese University, Lebanon), Rabih Talhouk (American University of Beirut, Lebanon)

Circulating miR-150 and miR-342 in Plasma are Novel Potential Biomarkers for Acute Myeloid Leukemia

Hussein Fayyad Kazan (Lebanese University, Lebanon); Nizar Bitar (Lebanese University, Lebanon); Eva Hmeide (Lebanese University, Lebanon); Ahmad Daher (Lebanese University, Lebanon); Nader Hussein (Lebanese University, Lebanon); Rim Eldirani (Lebanese University, Lebanon); Philippe Martiat (Université Libre de Bruxelles, Belgium); Redouane Rouas (Université Libre de Bruxelles, Belgium); Bassam Badran (Lebanese University, Lebanon)

miRNA as Potential Biomarkers of Breast Cancer in the Lebanese Population and in Young Women: a Pilot Study

Farah Nassar (American University of Beirut, Lebanon); Maya El Sabban (American University of Beirut, Lebanon); Nathalie Zgheib (American University of Beirut, Lebanon); Arafat Tfayli (American University of Beirut, Lebanon); Fouad Boulos (American University of Beirut, Lebanon); Mark Jabbour (American University of Beirut, Lebanon); Nagi El Saghir (American University of Beirut, Lebanon); Rabih Talhouk (American University of Beirut, Lebanon); Ali Bazarbachi (American University of Beirut, Lebanon); George Calin (University of Texas MD Anderson Cancer Center, USA); Rihab Nasr (American University of Beirut, Lebanon)

The Anti-Proliferative and Pro-apoptotic Effect of Topotecan in Combination with Thymoquinone on Acute Myelogenous Leukemia

Rana Khalife (Lebanese American University, Lebanon); Omayr Tarras (Lebanese American University, Lebanon); Sandra Rizk (Lebanese American University, Lebanon)

Retinoic Acid and Arsenic Trioxide Degrade Mutated NPM-1 Resulting in Synergistic Apoptosis of AMLs

Hiba El-Hajj (American University of Beirut, Lebanon); Nadim Tawil (American University of Beirut, Lebanon); Ala Salameh (American University of Beirut, Lebanon)

Targeted Therapy of Chronic Myeloid Leukemia Using the Synthetic Retinoid ST1926

Raed Hmadi (American University of Beirut, Lebanon); Rabab El-Eit (American University of Beirut, Lebanon); Ahmad Iskandarani (American University of Beirut, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Rihab Nasr (American University of Beirut, Lebanon); Nadine Darwiche (American University of Beirut, Lebanon)

Biological, Medical, Pharmaceutical, Health Sciences II

Microbiology

Room: Annex X2

Chair: Mirvat Sibai (Lebanese American University, Lebanon)

Effect of Chemical Throidectomy on Thyroid Hormone Receptor Beta Expression in Larvae of Rana Ridibunda Amphibian, Anurans

Kawthar Kourani (Beirut Arab University, Lebanon); Essam El Din Moussad (Beirut Arab University, Lebanon)

Sand Fly Fever Virus in Lebanon: Serological Study and Viral Characterization

Renee Zakhia (Lebanese University, Lebanon); Soulaima Chamat (Lebanese University, Lebanon); Hasnaa Bouharoun-Tayoun (Lebanese University, Lebanon); Nabil Haddad (Lebanese University, Lebanon)

Knock-out of the Bradyzoite Marker P18 in Toxoplasma Gondii: Insights Towards a Functional Characterization During Neurotoxoplasmosis

Hiba El-Hajj (American University of Beirut, Lebanon); Nadim Tawil (American University of Beirut, Lebanon); Lea Maalouf (American University of Beirut, Lebanon)

Proteomic Analysis of Treatment-resistant, Stem-like Cancer Cells

Tamara Abou-Antoun (Lebanese American University, Lebanon); Bassem Saab (Lebanese American University, Lebanon); Javad Nazarian (Sheikh Zayed Institute, USA); Anthony Sandler (Sheikh Zayed Institute, USA)

Skin Elasticity: Derma-Elastometer Quantitative Measurement & Analysis

Rouba Lone (MUT, Lebanon); Nafez Haddad (MUT, Lebanon); Walid Kamali (AL-Manar University of Tripoli, Lebanon)

Occurrence and Susceptibility of Anaerobic Bacteria Isolated From Lebanese Patients

Micheline Hajjar (University of Balamand, Lebanon); Claude Afif (University of Balamand, Lebanon); Marie-Anne Boujaoude (University of Balamand, Lebanon); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon)

First Biological Control Essays in Lebanon Against the Pupae of the Leafminer Liriomyza huidobrensis Using the Entomopathogenic Nematode Heterorhabditis Indica

Elise Noujeim (National Council for Scientific Research in Lebanon, Lebanon)

Biological, Medical, Pharmaceutical, Health Sciences III

Epidemiology

Room: Room R1

Chairs: Ziad Abdrazzak (Lebanese University, Lebanon), Ahmad Olama (Beirut Arab University, Lebanon)

A Global Architecture for Patient Simulator Systems

Charbel El Gemayel (INSA de Lyon & Lebanese University, Lebanon); Joseph Constantin (Lebanese University Faculty of Sciences II, Lebanon); Fabrice Jumel (INSA de Lyon, France); Youssef Zaatar (Lebanese University, Lebanon); Doumit Zaouk (Lebanese University, Lebanon); Nacer Abouchi (CPE Lyon, France)

Epidémiologie Moléculaire Et Transmission Du Protiste Parasite Blastocystis Au Liban

Dima El Safadi (Lebanese University, France); Marwan Osman (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); Fouad Dabboussi (Lebanese University, Lebanon); Monzer Hamze (Lebanese University, Lebanon); Eric Viscogliosi (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France)

Vitamin D Status and Determinants Among Referred Patients in Medical Practice: a Cross-Sectional Study

Diana Rachkidi (University, Lebanon); Antoine Aoun (Notre Dame University, Lebanon)

Troubles Du Sommeil Chez Les Adolescents Libanais

Michèle Chahoud (Université Libanaise, Lebanon); Alain Harb (Université Libanaise, Lebanon); Rami Tarabay (Université Libanaise, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

Prevalence of Stroke and Associated Risk Factors in Mount Lebanon

Rita Farah (Université Paris-Est, France); Rouba Karen Zeidan (Université Toulouse III, France); Ramez Chahine (Lebanese University, Lebanon); Pascale Salameh (Lebanese University, Lebanon); Hassan Hosseini (Hôpital Henri Mondor, France)

Incidence of Helicobacter Pylori in Tripoli's Drinkable Water by PCR. Correlation with Its Prevalence in Patients

Richard Badran (University of Balamand, Lebanon); Esperance Debs (University of Balamand, Lebanon); Fouad Dabboussi (Lebanese University, Lebanon)

Engineering I

Biomedical

Room: Room R2

Chairs: Mohamad Sawan (Polytechnique Montréal, Canada), Sandy Rihana (USEK, Lebanon)

Gender Classification by X-Ray Images of Hand

Yeiha Kabbara (Lebanese University, Lebanon); Ahmad Shahin (Lebanese University, Lebanon); Amine Naït-ali (Université Paris-Est Créteil (UPEC), France); Mohamad Khalil (Azm center for research in bioTechnology & Lebanese University, Lebanon)

Heart Attack Prevention System (HAPS)

Elie Fayad (Notre Dame University, Lebanon); Elie Bou Younes (Notre Dame University, Lebanon); Oliver Chlela (Notre Dame University, Lebanon); Abdallah Kassem (Notre Dame University, Lebanon)

NEHR - National Electronic Health Record

Georges Abboudeh (American University of Technology, Lebanon); Najib El Haddad (American University of Technology, Lebanon)

Advances in Biologically Based Electronic Nose Development

Sarah Hammoud (Lebanese International University, Lebanon); Zahraa Chahrour (Lebanese International University, Lebanon); Ali Hage-Diab (Lebanese International University, Lebanon)

Sign to Letter Translator System Using a Hand Glove

Hanine Hayek (Notre Dame University-Louaize, Lebanon); Jessica Nacouzi (Notre Dame University-Louaize, Lebanon); Sami Murr (Notre Dame University, Lebanon); Mustapha Hamad (Notre Dame University-Louaize, Lebanon); Abdallah Kassem (Notre Dame University, Lebanon)

Simulation of the Mechanical Behavior of Ultra-Long Porous Neural Electrodes

Rayan Fayad (Lebanese International University, Lebanon); Soumaya Berro (Lebanese International University, Lebanon); Hussein Hajj-Hassan (Lebanese International University, Lebanon); Mohamad Hajj-Hassan (Lebanese International University, Lebanon)

Engineering II

CCE

Room: Room R3

Chairs: Imad Mougharbel (Lebanese University, Lebanon), Ahmad Rafihi (Universite Libano Francaise, Lebanon)

An Overview of Fractional Calculus and Its Applications in Several Engineering Domains

Roy Abi Zeid Daou (Lebanese German University, Lebanon)

Modeling of Signals in Transmission Lines Using Wavelet Transform

Alex Quingalombo (Universidad Politécnica Salesiana, Ecuador)

Optimization of Element Positions for Minimizing Sidelobe Levels in Wideband Linear Arrays

Elie Zaccour (Holy Spirit University of Kaslik, Lebanon); Tony Azar (USEK & Holy Spirit University of Kaslik, Lebanon)

Error Analysis in Linear Antenna Arrays

Joe Ghanem (Holy Spirit University of Kaslik, Lebanon); Estephan Hannouch (USEK, Lebanon); Tony Azar (USEK & Holy Spirit University of Kaslik, Lebanon)

A Simplified Mathematical Model for Fire Spread Predictions in WildLand Fires Combining Between the Models of Anderson and Rothermel

Ali Karouni (Universite d' Angers, France); Bassam Daya (Lebanese University & IUT Saida, Lebanon); Samia Bahlak (Lebanese University, Lebanon); Pierre Chauvet (Université Catholique de l'Ouest, France)

Reducing the Risk of Fire Danger in Lebanon Based on Predictive Analysis and Preliminary-Proactive Actions

Ali Karouni (Universite d' Angers, France); Alaa Hilal (Lebanese University, Lebanon); Bassam Daya (Lebanese University & IUT Saida, Lebanon); Pierre Chauvet (Université Catholique de l'Ouest, France)

Theoretical and Experimental Chemistry and Physics I

Physics

Room: Room R4

Chairs: Jamal Charara (Lebanese University, Lebanon), Doumit Zaouk (Lebanese University, Lebanon)

Hydrogen Storage in the Solid State: New Sustainable Energy Materials

Adel Al Alam (Université Saint-Esprit de Kaslik, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Samir F Matar (CNRS-Université de Bordeaux & Institut de Chimie de la Matière Condensée de Bordeaux-CNRS, France)

Characterization of Phonon Behavior in Nanostructured SiC

Abeer Al Mohtar (University of Technology of Troyes, France)

Electrospray Deposition and Characterization of Cobalt Oxide Thin Films

Omar Kilo (Lebanese University, Lebanon); Jihane Jabbour (Lebanese University, Lebanon); Doumit Zaouk (Lebanese University, Lebanon); Marwan Brouche (Saint Joseph University, Lebanon); Antonio Khoury (Lebanese University, Lebanon); Roland Habchi (Lebanese University, Lebanon)

Plasmonic Diodes THz Response to Optical and Electrical Excitations

Slyman Karishy (Lebanese University & Montpellier II University, Lebanon)

Determination of Relative Permeability From Well Production Data with Consideration of Formation Heterogeneity, Fluid Viscosity and Skin Factor by Mean of Reservoir Simulator

Ahmed Zarzor Al-Yaseri (Curtin University & College of Engineering, Australia)

Food security, Environment, Agriculture I

Environment

Room: Room R5

Chairs: Antoine El Semrani (Lebanese University, Lebanon), Samir Taha (Lebanese University, Lebanon)

Hospital Wastewater Genotoxicity in a Lebanese University Hospital

Jeff Jabbour (University of Balamand, Lebanon); Pamela Melki (University of Balamand, Lebanon); Roula M. Abdel-Massih (University of Balamand, Lebanon)

Attitudes of Respondents Farmers Toward Mitigation of Rural Environment Pollution Hazards in Khurshid Agricultural Area, Alexandria Governorate

Mohamed Hassan (Agriculture Research Centre & ARC, Egypt); Hossam Abbas (National Research Centre & Deputy Head of Hydrobiology Department, Egypt); Magdy Boules (Plant Protection Research Institute, Egypt)

Field Crops Mapping and Assessment in Lebanon Using Remote Sensing and GIS

Mohamad Mostafa Awad (National Council for Scientific Research, Lebanon); Talal Darwish (CNRS, Lebanon); Roula Bachour (CNRS, Lebanon)

Preliminary Assessment of Macrophytic Community in Qaraoun Reservoir, Lebanon

Hussien Abou-Hamdan (The Lebanese University, Lebanon); Nabil Amacha (Ministry of Energy and Water, Lebanon); Lamis Chalak (The Lebanese University, Lebanon); Pinelopi Delipetrou (University of Athens, Lebanon); Kyriacos Georghiou (University of Athens, Lebanon); Mahmoud Kamar (Beirut Arab University, Lebanon); Safaa Baydoun (Beirut Arab University, Lebanon)

Radioactive Study of the Lebanese Marine Environment: Impact of Phosphate Fertilizer Releases on Marine Sediments and Seawater

Maria Aoun (National Council for Scientific Research, Lebanon); Omar El Samad (National Council for Scientific Research, Lebanon); Hamzeh El Jaeid (National

Council for Scientific Research, Lebanon); Wissam Zeidan (National Council for Scientific Research, Lebanon); Rola Bou Khozam (National Council for Scientific Research, Lebanon); Ryscard Lobinski (CNRS/UPPA, France)

Analyse Des Composés Biocides à Base d'Ulva Linza Contre Penicillium Digitatum, Champignon Responsables Des Moisissures D'agrumes

Hiba Mawlawi (Lebanese University- Health 3, Lebanon); Asma Chibani (Lebanese University- Health 3, Lebanon); Rouba Meccassi (Lebanese University, Lebanon)

Study Parameters Morpho-Metric, Physiological and Biochemical Growth of Sunflower Plants in a Biodegradable Pot Made with the Brown Seaweed as Biofertilizer

Asma Chibani (Lebanese University- Health 3, Lebanon); Mark Kammoun (Lebanese University- AZM Center, Lebanon); Hiba Mawlawi (Lebanese University- Health 3, Lebanon); Assad Mogni (Université of Toulouse-France, France); Thibaud Pinthiaux (Université of Toulouse-France, France); Carlos VacaGarcia (Université of Toulouse-France, France)

Mathematics and Computer Sciences I

Computer Sciences

Room: Room R6

Chair: Hussein Chible (Lebanese University, Lebanon)

RSA Implementation Using GNU MP Library

Youssef Hassoun (American University of Science and Technology, Lebanon); Hiba S. Othman (American University of Science and Technology, Lebanon)

Tari'ak (طريقك) - Automatic Traffic Measurement using Smartphones

Rami Khawandi (American University of Science and Technology, Lebanon); Aziz M. Barbar (American University of Science and Technology, Lebanon)

Design of an Intelligent Learning Approach for Image Noise Detection in Global Illumination Methods

Joseph Constantin (Lebanese University Faculty of Sciences II, Lebanon); Andre Bigand (Université du Littoral (ULCO), France); Ibtissam Constantin (Lebanese University, Faculty of Sciences 2, France); Denis Hamad (University of Littoral, France)

Advanced Techniques and Tools for Delivering Business Process as a Service (aBPaaS)

Mohamad-Jaafar Nehme (Lebanese University, Lebanon); Ali Jaber (Lebanese University, Lebanon); Kamal Beydoun (Lebanese University & Faculty of Sciences I, Lebanon)

A Modified-Form Expressions for the Hypoexponential Distribution

Therrar S Kadri (Beirut Arab University, Lebanon); Khaled Smaili (Lebanese University, Lebanon); Seifedine Kadry (American University of the Middle East, Kuwait)

15:30 - 16:00

Coffee Break

Room: EDST Lobby

16:00 - 17:30

Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences I

Cancerology, Inflammation, Plant Medicinal

Room: **EDST Lobby**

Chairs: Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon), Wissam Joumaa (Université Libanaise, Faculté des Sciences, Lebanon), Mona Assaf (Lebanese University, Lebanon), Mohamad Mortada (Lebanese University, Lebanon)

Effect of Connexin 43 Loss on Polarity and Initiation of Tumorigenic Pathways in the Phenotypically Normal Breast Epithelium

Dana Bazzoun (American University of Beirut, Lebanon)

Toxicological Summary of Silica Nanoparticles

J. Yammine (ClinGroup Holding, Lebanon); R. Sabbah (ClinServ International, Lebanon); M. Karaki (ClinPharm, Lebanon); C. Aad Naba (ClinGroup Holding, Lebanon); N. Cheaib (ClinGroup Holding, Lebanon)

Investigating the Efficacy of Combining Thymoquinone with Clinical Drugs to Enhance Cell Death in Adult T-cell Leukemia

Nasab Ghazal (American University of Beirut, Lebanon); Maamoun Fatfat (American University of Beirut, Lebanon); Ali Bazarbachi (American University of Beirut, Lebanon); Regine Schneider-Stock (University Erlangen-Nuremberg, Germany); Hiba El-Hajj (American University of Beirut, Lebanon); Hala Gali Muhtasib (American University of Beirut, Lebanon)

Role of the Retinoblastoma Protein, pRb, in the Development of the Olfactory System

Noel Ghanem (AUB, Lebanon); Noel Ghanem (American University of Beirut, Lebanon); Carine Jaafar (American University of Beirut, Lebanon); Sawsan Al Lafi (AUB, Lebanon)

Role of the Sphingosine 1-Phosphate Metabolism in the Development of Cutaneous Melanoma

Marguerite Mrad (Plateforme de Recherche et D'Analyse en Sciences Environnementales, Lebanon); Claire David (Institut National de la Santé et de la Recherche Médicale, France); Céline Colacios (Institut National de la Santé et de la Recherche Médicale, France); Rania Azar (Plateforme de Recherche et D'Analyse en Sciences Environnementales, Lebanon); Mona Assaf (Lebanese University, Lebanon); Nathalie Andrieu Abadie (Institut National de la Santé et de la Recherche Médicale, France); Nicole Therville (INSERM, France)

Mode of Action of New Therapeutic Drugs in Treatment of Primary Effusion Lymphoma

Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Hiba El-Hajj (American University of Beirut, Lebanon); Louna Karam (Lebanese University, Lebanon); Iman Halloum (Lebanese University, Lebanon); Rana Abdel-Samad (American University of Beirut, Lebanon); Eva Hmeide (Lebanese University, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Ali Bazarbachi (American University of Beirut, Lebanon); Nadine Darwiche (American University of Beirut, Lebanon)

Imiquilines: Promising Anticancer Molecules

Zahraa Zghaib (Université Libanaise, Lebanon); Kamel Hadj-Kaddour (Université Montpellier I, France); Johanna Vappiani (Université Montpellier I, France); Nicole

Bec (Université Libanaise, Lebanon); Sonia Khier (Université Montpellier I, France); Christian Larroque (Inserm, France); Florence Gattacceca (Université Montpellier I, France); George Moarbess (Université Libanaise, Lebanon); Pierre-Antoine Bonnet (Université Montpellier I, France); Pierre Cuq (Université Montpellier I, France); Carine Masquéfa (Université Montpellier I, France); Issam Kassab (Université Libanaise, Lebanon); Mona Assaf (Lebanese University, Lebanon)

Apolipoproteins L, Cancer and Cell Death Process

Mounia Chidiac (Lebanese University, Lebanon); Bassam Badran (Lebanese University, Lebanon); Van Hamme (Free University of Brussels, Belgium)

Protein Characterization of Invadopodia Structures in Astrocytoma and Breast Cancer Cells

Patrick Aouad (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Emile Lakis (Lebanese American University, Lebanon); Bechara Saykali (Lebanese American University, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

Cellular Interactions and Role of Cripto-1 in Progression of Prostate Cancer

Ihsan El Sayed (Lebanese University, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Ahmad Daher (Lebanese University, Lebanon); Francis Vacherot (Paris-Est University, France)

Effect of Montivipera Bornmuelleri's Snake Venom on Human Blood: Coagulation Disorder and Hemolytic Activity

Claudine Accary (Lebanese University, Lebanon); Mohamad Rima (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Achraf Kouzayha (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Walid Hleihel (Holly Spirit University, Lebanon); Jean Claude Desfontis (LUNAM, France); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Souad Hraoui-Bloquet (Lebanese University, Lebanon)

Meta-analysis of Transcriptomic Organization of Tissue Renin-Angiotensin-Aldosterone and Corticosteroid Systems in Human

Ali Nehme (Lebanese University & University of Claude Bernard Lyon 1, France); Catherine Cerutti (Functional Genomics of Arterial Hypertension, Claude Bernard University-Lyon 1, France); Kazem Zibara (Biology Department, Lebanese University, Beirut, France); Giampiero Bricca (Functional Genomics of Arterial Hypertension, Claude Bernard University-Lyon 1, France)

Involvement of phospholipase D and PGE2 receptors during physiological mineralization

Dina Abdallah (University of Claud Bernard Lyon1, France); Eva Hmeide (Lebanese University, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Zeidan Asaad (American University of Beirut, Lebanon); Bassam Badran (Lebanese University, Lebanon); René Buchet (University of Lyon1, Lebanon); Saida Mebarek (University of Lyon1, France)

Roles of RhoA and RhoC in Activation of the VEGF Receptor and Angiogenesis in Astrocytoma Cells and Vascular Endothelial Cells

Amira Fakhri (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences II

Cellular, Genetics, Immunologie

Room: EDST Lobby

Chairs: Fouad Dabboussi (Lebanese University, Lebanon), Bachar Ismail (Lebanese University, Lebanon), Wissam Faour (LAU, Lebanon), Samar Rachidi (Université Libanaise, Lebanon)

Proteomic Profiling of Nuclei Isolated From LaminA/C-Deficient Mouse Embryo Fibroblasts by Performing a Differential Phage Display Screen

Hind Zahr (American University of Beirut, Lebanon); Diana E Jaalouk (American University of Beirut, Lebanon)

Diversité Génétique Et Fonctionnelle Des Molécules Homologues De PA1b Chez L'espèce Modèle Des Légumineuses Medicago Truncatula

Lamis Karaki (Université Libanaise, Lebanon); Pedro Da Silva (Université de Lyon, France); Frédéric Gressent (Université de Lyon, France); Francine Rizk (Université Libanaise, Lebanon); Yvan Rahbe (Université de Lyon, France); Corinne Royer (Université de Lyon, France)

Hypovitaminosis D in a Young Lebanese Population: Effect of GC Gene Polymorphisms on Vitamin D and Vitamin D Binding Protein Levels

Myrna Medlej-Hashim (Lebanese University, Lebanon); R. Jounblat (Lebanese University, Lebanon); Aline Hamade (Faculty of Sciences, Lebanon); Francine Rizk (Univ Lib, Lebanon); G. Azzi (Lebanese University, Lebanon); Jose Noel Ibrahim (Lebanese University, Lebanon); Marwa Abdallah (Lebanese University, Lebanon); Layane Nakib (Lebanese University, Lebanon); M. Lahoud (Lebanese University, Lebanon); Rita Nabout (Lebanese University, Lebanon)

Polymorphism in SFTPD Gene Affects Assembly and Constitutional Serum Levels of Surfactant Protein D in a Lebanese Population

Dalia Fakh (University of Southern Denmark, Lebanon); Soulaima Chamat (Lebanese University, Lebanon); Myrna Medlej-Hashim (Lebanese University, Lebanon); Mirna Waked (Balamand University, Lebanon); Pascale Salameh (Lebanese University, Lebanon); G Sorensen (University of Southern Denmark, Denmark); R. Jounblat (Lebanese University, Lebanon)

Molecular Cloning, Characterization and Genetic and Epigenetic Regulation of the Human IL-21 Promoter

Hassan Al-Said (Lebanese University, Lebanon); Hussein Fayyad Kazan (Lebanese University, Lebanon); Loyal Falha (Lebanese University, Lebanon); Mohammed Ezeddine (Lebanese University, Lebanon); Luc Vanhamme (Université Libre de Bruxelles, Belgium); Bassam Badran (Lebanese University, Lebanon)

Effets Du Venin De Montevipera Bornmuelleri Sur Certains Organes De Souris Causant Leur Mort

Eliane Kossaifi (USEK, Lebanon); Walid Hleihel (Holly Spirit University, Lebanon); Claudine Accary (Lebanese University, Lebanon); Riyadh Sadek (American University, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Souad Hraoui-Bloquet (Lebanese University, Lebanon)

The Regulation of RhoA At Focal Adhesions by StarD13 is Important for Astrocytoma Cell Motility

Bechara Saykali (Lebanese American University, Lebanon)

Multi-Copper Ferroxidase (MCF) Expression Characterization in Human Macrophages

Josiane Deghel (American University of Science and Technology, Lebanon); Amin Sobh (American University of Science and Technology, Lebanon); C. Vulpe (University of California, USA); Zouhair K Attieh (American University of Science and Technology, Lebanon)

The Role of Rho GTPases in the Differentiation of Cancer Like Stem Cells and Radio-Resistance

Melhem Bileine (Lebanese American University, Lebanon); Gilbert Salloum (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Mirvat Sibai (Lebanese American University, Lebanon)

Development and Maturation of Cortical Embryonic Neurons Grafted Into the Damaged Adult Motor Cortex

Nissrine Ballout (Laboratoire de Neurosciences Experimentale et Cliniques, INSERM U-1084, University of Poitiers, France); Isabelle Frappe (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France); Sophie Peron (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France); Mohamed Jaber (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France); Kazem Zibara (Doctoral School of Sciences and Technology, Lebanese University, France); Afsaneh Gaillard (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France)

Molecular Guidance of Dopaminergic Cells Transplanted in a Mouse Model of Parkinson's Disease

Joanna Kalaani (University of Poitiers & Laboratory of Experimental and Clinical Neurosciences INSERM 1084, France); Joelle Roche (University of Poitiers & Laboratory of Experimental and Clinical Neurosciences, France); Eva Hmeide (Lebanese University, Lebanon); Bassam Badran (Lebanese University, Lebanon); Mohamed Jaber (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France); Afsaneh Gaillard (Laboratoire de Neurosciences Experimentale et Cliniques, University of Poitiers, France); Laetitia Prestoz (University of Poitiers & Laboratory of Experimental and Clinical Neurosciences, France)

Chemical, Rheological and Biological Properties of Lipids and Sodium Alginate Extracted From Lebanese Brown Algae Sargassum Vulgare: Toward New Biosurfactants

Nouha Sari Chmaysem (EDST UL, France); Samir Taha (Lebanese University, Lebanon); Hiba Mawlawi (Lebanese University- Health 3, Lebanon); Asma Chibani (Lebanese University- Health 3, Lebanon); Thierry Benvegna (ENSCR, France)

Analysis of Natural Variation for Secondary Metabolites in Arabidopsis and Related Plants Using Molecular and Quantitative Genetics

Mostafa Shehadi (Lebanese University, France); Ahmad Koubeissi (Lebanese University, Lebanon); Marina Pfalz (Université Paris-Sud, France); Zeinab Saad (Lebanese University, Lebanon); Juergen Kroymann (Université Paris-Sud, France)

Antioxidant and Anti-Inflammatory Effects of Callisia Fragrance Extracts

Rawan El Amine (Lebanese University, Lebanon); Eva Hmeide (Lebanese University, Lebanon); Lizette Auezova (Lebanese University, Lebanon); Yara Gassoub (Lebanese University, Lebanon); Ghewa Antoine El-Achkar (American University of Beirut, Lebanon); Aida Habib (American University of Beirut, Lebanon); Ramez Chahine (Lebanese University, Lebanon); Fadia Najjar (Lebanese University, Lebanon)

The Black Seed Extract Thymoquinone Inhibits Colon Cancer Stem Cells Alone and When Combined with 5-Fluorouracil

Carla Hankache (American University of Beirut, Lebanon); Makram Daou (American University of Beirut, Lebanon); Tarek Barbar (American University of Beirut, Lebanon); Regine Schneider-Stock (University Erlangen-Nuremberg, Germany); Wassim Abou Kheir (American University of Beirut, Lebanon); Hala Gali Muhtasib (American University of Beirut, Lebanon)

Synthesis, Characterization and Assessment of the Anticancer Potential of Thymoquinone Pyrimidine Derivatives

Isabelle Fakhoury (American University of Beirut, Lebanon); Ali Koubeissi (American University of Beirut, Lebanon); Antranik Jordenia (American University of Beirut, Lebanon); Regine Schneider-Stock (University Erlangen-Nuremberg, Germany); Hala Gali Muhtasib (American University of Beirut, Lebanon); Kamal Bou Hadir (American University of Beirut, Lebanon)

Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences III

Micobiology, Epidemiology, Ethics

Room: EDST Lobby

Chairs: Fadwa Berri (Lebanese University, Lebanon), Monzer Hamze (Lebanese University, Lebanon), Mahmoud Homsy (Lebanese University, Lebanon), Mireille Kallassy (USJ, Lebanon)

Identification and Partial Characterization of L-Amino Acid Oxidase (Mb-LAAO) From the Venom of Montivipera Bornmuelleri, a Viper From Lebanon

Mohamad Rima (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Claudine Accary (Lebanese University, Lebanon); Katia Haddad (Faculty of Sciences, Section III, Lebanon); Riyad Sadek (American University, Lebanon); Souad Hraoui-Bloquet (Lebanese University, Lebanon); Jean Claude Desfontis (LUNAM, France); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon)

Cyclodextrins as Encapsulation Agents for Phenylpropanoids in Solution and in Solid State

Miriana Kfoury (Lebanese University, France); Sophie Fourmentin (Univ Lille Nord de France, France); Lizette Auezova (Lebanese University, Lebanon); Helene Greige (Lebanese University, Lebanon)

Diurnal Variation of the Antioxidant Activity of Saliva From Patients with Periodontal Disease

Randa Diab (Lebanese University, Lebanon); Mounir Doumit (Lebanese University, Lebanon); Afifee Chalfoun Mounayar (Lebanese University, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

Caractérisation De 12 Mutations Du Gène ACVRL1 Et Étude De Leurs Implications Physio-Pathologiques Dans La Maladie De Rendu-Osler

Ferdos Alaa el Din (Université Libanaise, Lebanon); Sylvie Patri (Université Libanaise, Lebanon); Vincent Thoreau (Université de Poitiers, France); Montserrat Rodriguez-Ballesteros (Université de Poitiers, Lebanon); Eva Hmeide (Lebanese University, Lebanon); Sabine Bailly (CEA de Grenoble, France); Brigitte Gilbert-Dussardier (Université de Poitiers, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Alain Kitzis (Université de Poitiers, France)

SP-D as a Biomarker for COPD in the Lebanese Population

Zeina Akiki (University Paris Sud & Lebanese University, Lebanon); Dalia Fakhri (University of Southern Denmark, Lebanon); R. Jounblat (Lebanese University, Lebanon); Soulayma Chamat (Lebanese University, Lebanon); Mirna Waked (Balamand University, Lebanon); G Sorensen (University of Southern Denmark, Denmark); Rachel Nadif (Univ Paris-Sud, France); Pascale Salameh (Lebanese University, Lebanon)

Detection of Norovirus and Rotavirus in Iraq Children Under Five Years During Winter 2012-2013 in Mosul City

Nadira Mohamed (AL-Nahrain Research & Training Center for Forensic DNA, Iraq); Mohammed Hameed (Foundation of Technical Education, Iraq); Basima Abdullah (University of Mosul, Iraq)

Blue Caravan Project: Epidemiology of Diabetes Prevalence in Lebanon, a National Lebanese Study

Mazin Moufarij (American University of Technology & International Union Against Tuberculosis and Lung Disease, Lebanon); Georges Rammouz (American University of Technology, Lebanon); Joseph Keirouz (American University of Technology, Lebanon); Najib El Haddad (American University of Technology, Lebanon)

Informed Consent in Clinical Research

C. Aad Naba (ClinGroup Holding, Lebanon); M. Karaki (ClinPharm, Lebanon); R. Sabbah (ClinServ International, Lebanon); N. Cheaib (ClinGroup Holding, Lebanon)

Isolation of Lebanese Bacterial Strains Producing Antifungal Metabolites

Dima Zbib (Beirut Arab University & Lebanese International University, Lebanon); Hoda Youssef (Beirut Arab University, Lebanon); Ahmad Olama (Beirut Arab University, Lebanon)

Targeting the MAP Kinase Pathway in Astrocytoma Cells Using a Recombinant Anthrax Lethal Toxin as a Way to Inhibit Cell Motility and Invasion

Gilbert Salloum (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Ralph Abi Habib (Lebanese American University, Lebanon); Mirvat Sibai (Lebanese American University, Lebanon)

Emergence of VIM-2, IMP-15 Carbapenemase and Inactivation of oprD Gene in Carbapenem-Resistant Pseudomonas Aeruginosa Clinical Isolates, Lebanon

Charbel Al Bayssari (Lebanese University, Lebanon); Fouad Dabboussi (Lebanese University, Lebanon); Monzer Hamze (Lebanese University, Lebanon); Jean-Marc Rolain (Aix-Marseille Université, Lebanon)

Ecologie Microbienne d'Acinetobacter Baumannii Au Liban: Recherche De Sa Présence Hors De L'environnement Hospitalier

Rayane Rafei (Université Libanaise, Lebanon); Fouad Dabboussi (Lebanese University, Lebanon); Monzer Hamze (Lebanese University, Lebanon); Marie-Laure Joly-Guillou (Université D'Angers, Lebanon); Marie Kempf (Université D'Angers, France)

A Mixture of Lactobacillus Plantarum and Lactococcus Lactis Subsp. Lactis Boosts Gastric Immunity in the Elderly by Renewing Microflora and Playing an Anti-Inflammatory Role: a Randomized Pilot Study

Toufic Saber (University of Balamand, Lebanon); Jihad Irani (University of Balamand, Lebanon); Claude Afif (University of Balamand, Lebanon); Nazem Bassil (Saint George Hospital University Medical Center, Lebanon); Elie Estephan (Saint George Hospital University Medical Center, Lebanon); Mirelle Serhan (University of Balamand, Lebanon); Marcel Bassil (Benta Pharma Industries & University of Balamand, Lebanon)

Control of Adult Neural Stem Cells (NSCs) by the Retinoblastoma Protein, pRb in Vitro

Dayana Hayek (AUB, Lebanon); Noel Ghanem (AUB, Lebanon); Sawsan Al Lafi (AUB, Lebanon); Noel Ghanem (American University of Beirut, Lebanon)

Poster Session 1- Education and Sociologie

Room: EDST Lobby

Chairs: Ali Fakh (Lebanese American University, Lebanon), Mohamed Hamadeh (Notre Dame University, Lebanon), Rim Hammoud (Saint Joseph University, Lebanon), Sami Samra (Notre Dame University, Lebanon)

Espace Municipal Et Développement Durable Au Liban:enjeux Et Défis

Mirna Mzawak (Université Saint-Esprit de Kaslik, Lebanon)

Prévalence De La Dénutrition Chez Les Sujets Âgés Libanais Vivant En Milieu Rural Et Facteurs Sociodémographiques Associés

Christa Boulos (Université St Joseph, Lebanon); Pascale Salameh (Université Libanaise, Lebanon); Pascale Barberger-Gateau (Université Bordeaux, France)

Future of Social Media in Advertising: A Survey From Lebanon

Pierre Al Khoury (Lebanese German University, Lebanon); Marwan Al Kotob (Rafik Hariri University, Lebanon)

Aristotle's Notion of Reciprocity Brings Reality to Social Welfare Analysis

Robert Gallagher (American University of Beirut, Lebanon)

La Délinquance Juvénile Au Liban: Les Facteurs D'ordre Social Et Psychologique

Farah Hajj (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanese International University, Lebanon)

La Détention Provisoire Des Mineurs: Approche Sociologique Et Judiciaire

Farah Hajj (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanese International University, Lebanon)

Assessment of Flipped Classroom Model in a Calculus II

Seifedine Kadry (American University of the Middle East, Kuwait)

Poster Session 1- Engineering I

CCE-BME

Room: EDST Lobby

Chairs: Joumana Farah (University St-Esprit Kaslik, Lebanon), Bacem Bakhache (Lebanese University, Lebanon), Mohamad O. Diab (Rafik Hariri University, College of Engineering, Bioinstrumentation Eng., Lebanon)

In Vitro Fertilization Using Microporous Polymer

Hassan Wehbe (Lebanese International University, Lebanon); Hussein Hajj-Hassan (Lebanese International University, Lebanon); Mohamad Hajj-Hassan (Lebanese International University, Lebanon)

Gaussian Noise Effect in Biometric System Based on Hand X-Ray Image

Yehya Kabbara (Lebanese University, Lebanon); Ahmad Shahin (Lebanese University, Lebanon); Amine Naït-ali (Université Paris-Est Créteil (UPEC), France); Mohamad Khalil (Azm center for research in bioTechnology & Lebanese University, Lebanon)

Auto-Learning Electronic Medical Record System

Bilal El-Hajj-Diab (TST Soft, Lebanon); Iyad Zayour (Lebanese University, Lebanon); Ali Hage-Diab (Lebanese International University, Lebanon)

Quantitative Ultrasound for Monitoring Cancer Treatment Response

Omar Falou (Sunnybrook Health Sciences Centre & University of Toronto, Canada); Ali Sadeghi-Naini (Sunnybrook Health Sciences Centre, Canada); Azza Al-Mahrouki (Sunnybrook Health Sciences Centre, Canada); Kolios Michael (Ryerson University, Canada); Gregory Czarnota (University of Toronto & Sunnybrook Health Sciences Centre, Canada)

Filter and Wrapper Methods for Feature Selection in Uterine EMG Signals

Dima Alamedine (Université de Technologie de Compiègne, France); Mohamad Khalil (Azm center for research in bioTechnology & Lebanese University, Lebanon); Catherine Marque (Université de Technologie de Compiègne, France)

Medical Use of RFID

Georges Siklawi (Holy Spirit University of Kaslik, Lebanon)

Face Recognition Based Fusion of Interest Regions Using Gabor with EFM and SVM

Mebarka Belahcene (Mohamed Khider University, Algeria); Ammar Chouchane (Mohamed KHIDER Biskra University - Algeria-, Algeria); Hanane Ouamane (Mohamed Khider Bisra University, Algeria)

Vision Cortex Stimulation by an Artificial Neural Network

Roger Achkar (American University of Science and Technology, Lebanon); Fadi Fayad (ASD Vision Institute, USA)

Enhancement of Directional Characteristics of Horn Antennas Using Metallic Diffracting Strips

Ali Harmouch (American University of Science and Technology, Lebanon); Chady El Moucary (Notre Dame University, Lebanon); Roger Achkar (American University of Science and Technology, Lebanon); Abdallah Rifai (American University of Science and Technology, Lebanon); Richard Habanbou (American University of Science and Technology, Lebanon); Ali Chehade (American University of Science and Technology, Lebanon); Hassan Haddad (Lebanese University, Lebanon)

User Adjustable Conventional Restoring Analog to Digital Converter with Z Added Levels (CRZ) of Redundancy

Ali Elrachini (Lebanese University, Lebanon); Hussein Chible (Lebanese University, Lebanon); Massimo Barbaro (University of Cagliari, Italy); Luigi Raffo (University of Cagliari, Italy)

Experimental Study System for Memory Polynomial Predistortion of Power Amplifier Controlled in Biasing

Mohamad Saad El Dine (Universite Libano Francaise, Lebanon); Abdelkader Elrafei (Universite Libano Francaise, Lebanon); Ahmad Rafihi (Universite Libano Francaise, Lebanon); Mohamad El-Asmar (University of Quebec in Montreal, Canada); Jean Michel Nebus (XLIM, France)

Automatic De-noising for Image Annotation Using Latent Semantic Analysis

Abbass Khorsheed (Lebanese University, Lebanon); Hussein Chible (Lebanese University, Lebanon); Luigi Raffo (University of Cagliari, Italy); Giorgio Giacinto (University of Cagliari, Italy)

Poster Session 1- Engineering II

Civil-mechanics-EE

Room: EDST Lobby

Chairs: Onsy Abdul Alim (Beirut Arab University & Alexandria University, Lebanon), Hassan Amoud (Lebanese University, Lebanon)

From Images to Augmented Reality

Ghina Dandachi (Lebanese University- Doctoral School for Sciences and Technology, Lebanon); Ammar Assoum (Lebanese University, Lebanon); Bachar A. ElHassan (Lebanese University, Faculty of Engineering, Branch1 & order of Engineers and Architects - Tripoli, Lebanon); Fadi Dornaika (University of Basque Country and Ikerbasque Foundation, Spain)

Modeling Wave Equation for Studying Rapid Phase Transition Related to Underwater LNG Releases

Naveen Sankaran (National Institute of Technology Calicut, India);
Sivasubramanian Velmurugan (National Institute of Technology Calicut, India)

An Exhaustive Literature Review of the Evolution of Business Process Reengineering (BPR)

Bassam Hussein (Lebanese International University, Lebanon); Mohammad Abboud (LIU, Lebanon); Amin Haj-Ali (Lebanese International University, Lebanon)

Applying Risk Management to Ensure Successful Engineering Projects

Ahmad EL Zein (Modern University for Business and Science, Lebanon)

Hardware in the Loop for a Power Traction System

Marc Anthony Mannah (Lebanese International University, Lebanon); Ahmad Haddad (Lebanese International University, Lebanon); Ali Al-Khechen (Lebanese International University, Lebanon); Houssein Mahmoud (Lebanese International University, Lebanon)

Life Cycle Assessment of Flat Plate and Evacuated Tubes Solar Water Heaters in Lebanon

Rula Dahdal (University of Balamand, Lebanon); Rima Manneh (University of Balamand, Lebanon); Thomas Dandres (École Polytechnique de Montréal, Canada); Hassan Harajli (CEDRO-UNDP, Lebanon); Henri El Zakhem (University of Balamand, Lebanon)

Modeling and Control of a Complete PEM Fuel Cell System for Automotive Applications

Ahmad Haddad (Lebanese International University, Lebanon); Ahmad Sleileh (LIU University, Lebanon); Kassem Zeitoun (Lebanese International University, Lebanon)

Micro-Tri-generation Systems and Its Applications in Residents

Houssein Al Moussawi (Lebanese University, Lebanon); Farouk Fardoun (Lebanese University, Lebanon); Hasna Louahlia-Gualous (Caen Basse Normandie University, France)

Cooling Photovoltaic Panels Using Phase Change Materials

Houssein Jawhar (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Bakri Abdul Hay (LIU, Lebanon); Charbel Habchi (Lebanese International University, Lebanon)

Stand-Alone Hybrid PV/Fuel Cell Power Generation System for Isolated Sites

Ahmad Haddad (Lebanese International University, Lebanon); Moussa Shakaroon (Lebanese International University, Lebanon); Ahmad Mohammad (LIU, Lebanon)

Replacing Diesel Generators with Photovoltaic Systems for Average Power Consumption in Lebanese Houses

Nour Ezzeddine (LIU, Lebanon); Samer Mansour (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Mohamad Ramadan (Lebanese International University, Lebanon); Rabih Rammal (LIU, Lebanon)

Home Electrical Wiring: Design and Control

Ali H Assi (LIU, Lebanon); Rodrigue Elias (LIU, Lebanon); Rabih Rammal (LIU, Lebanon); Ali Mohsen (LIU, Lebanon); Mahdi Hajj Hassan (LIU, Lebanon)

Poster Session 1- Food security, Environment, Agriculture I

Environment

Room: EDST Lobby

Chairs: Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon), Hiba Mawlawi (Lebanese University- Health 3, Lebanon), Abdulhalim Mounemne (Lebanese University, Agriculture, Lebanon), Asma Chibani (Lebanese University- Health 3, Lebanon)

Combined Process for Nitrate treatment-Coupling of an Electrochemical System with a Biological Treatment

Rawa Abdallah (University of Rennes 1 & EDST, France); Samir Taha (Lebanese University, Lebanon)

Etude Multidimensionnelle De La Qualité Des Eaux De Surface Dans Un Régime Méditerranéen

Marise Salloum (Holy Spirit University, Lebanon); Claude Daou (Lebanese Agricultural Research Institute, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Bernard Legube (Université de Poitiers, France)

Assessment of the Impacts of Bio-Filtration Process on Water Quality of the Litani River Under Challenging Pollution

Dareen Hussein (Lebanese International University, Lebanon); Nabil Amacha (Litani River Authority (LRA), Lebanon)

Mineralization of Pharmaceutical Wastewater by Combining electro-Fenton Process and Biological Treatment

Dorsaf Mansour (Institut Nationale des Sciences Appliquées et de Technologie, Tunisia)

Desalination of Sea Water Using Solar Energy Vs. Non-Renewable Energy Resources

Johnny Tannoury (Holy Spirit University of Kaslik, Lebanon)

Dairy Effluent Characterization and Efficient Treatment Coupling Physical and Biological Methods

Moomen Baroudi (Lebanese University, Lebanon); Rana Kabbout (Lebanese University, Lebanon); Josiane Bitar (Lebanese University, Lebanon); Mariam Hamzeh (Lebanese University, Lebanon); Jalal Halwani (Lebanese University, Lebanon)

Étude Épidémiologique D'impact De L'eau Souterraine Polluée Par Les Pesticides Organochlorés Sur La Santé De La Population à La Plaine d'Akkar

Fouad Ziade (Lebanese University, Lebanon); Moomen Baroudi (Lebanese University, Lebanon); Hiba Bakkour (Lebanese University, Lebanon); Jalal Halwani (Lebanese University, Lebanon)

Geochemical Investigation of Two Contrasted Mediterranean Watersheds: Tracing the Origin and Pathways of Contaminants Using Pb Isotopes

Rawaa Ammar (Lebanese University & EDST, Lebanon); Veronique Kazpard (Lebanese University, Lebanon); Antoine El Semrani (Lebanese University, Lebanon); Mathieu Benoit (Géosciences Environnement Toulouse (GET), Université Paul Sabatier, France); Bruno Lartiges (Géosciences Environnement Toulouse (GET), Université Paul Sabatier, France); Nabil Amacha (Litani River Authority)

(LRA), Lebanon); Zeinab Saad (Lebanese University, Lebanon); Lei Chou (Université Libre de Bruxelles, Belgium)

Structural Organization of Humic Substances Nano-Colloids

Abdul Amir Chaaban (Lebanese University (EDST) and Paul Sabatier Toulouse III, France); Bruno Lartiges (Géosciences Environnement Toulouse (GET), Université Paul Sabatier, France); Zeinab Saad (Lebanese University, Lebanon); Veronique Kazpard (Lebanese University, Lebanon)

Fate of Organic and Inorganic Pollutants in the Upstream of the Watershed of Nahr Beirut

Jowanna El Hage (Holy Spirit University Kaslik, Lebanon); Desiree El Azzi (Holy Spirit University of Kaslik & Faculty of Agricultural and Food Sciences, Lebanon)

La Production De Biomasse Riche En Astaxanthine à Partir De La Microalgue Haematococcus Pluvialis

Valentina Hmaymess (Université Libanaise, Lebanon); Hosni Takache (Lebanese University & Faculty of Agricultural Sciences, Lebanon)

E-Condense Water Unit: Renewable Resource of Drinkable Water

Georges Rammouz (American University of Technology, Lebanon); Carlos Youssef (American University of Technology, Lebanon); Gary Garabedian (American University of Technology, Lebanon); Joy Abi Rachid (American University of Technology, Lebanon); Lea Zgheib (American University of Technology, Lebanon); Najib El Haddad (American University of Technology, Lebanon)

Optimization of Carbamazepine Degradation by White-rot Fungus Trametes Versicolor

Samer Semrany (Lebanese University, Lebanon); Samir Taha (Lebanese University, Lebanon)

Duckweed Wastewater Treatment

Carlos Youssef (American University of Technology, Lebanon); Georges Rammouz (American University of Technology, Lebanon); Georges Lamaa (American University of Technology, Lebanon); Najib El Haddad (American University of Technology, Lebanon); Gary Garabedian (American University of Technology, Lebanon); Joy Abi Rachid (American University of Technology, Lebanon); Lea Zgheib (American University of Technology, Lebanon)

Poster Session 1- Food security, Environment, Agriculture II

Agriculture

Room: EDST Lobby

Chairs: Ali Bassal (Lebanese University, Lebanon), Andre ElKhoury (Saint Joseph University, Lebanon), Nabil Nemer (Holy Spirit University of Kaslik, Lebanon)

Salinity Management Options in Irrigated Agriculture: a Tunisian Case Study

Issam Daghari ((1) National Institute of Research in Agriculture Engineering, Tunisia); Thameur Chaibi (National Institute of Research in Agriculture Engineering, Tunisia); Serge Marlet (CIRAD, France)

Status of Artisanal Fisheries in the Libyan Coast

Esmail Shakman (Tripoli University, Libya)

Results of the Eighth Winter Waterbird Census in Libya, 2012

Khaled Etayeb (Tripoli University, Libya); Ali Berbash (Environment General Authority, Lebanon); Jaber Yahia (Environment General Authority, Libya); Wajih Bashemam (Libyan Society for Birds, Libya); Mohamed Bouzainen (Environment

General Authority, Libya); Ashraf Galidan (Environment General Authority, Libya); Mokhtar Saied (Environment General Authority, Libya); Essam Bourass (Environment General Authority, Libya)

Preliminary Assessment of Flora Biodiversity of Hermon Mountain, Lebanon

Nelly Arnold (Université Saint Esprit, Lebanon); Lamis Chalak (The Lebanese University, Lebanon); Munir Mhanna (Ministry of Social Affairs, Lebanon); Helena Dalleh (Beirut Arab University, Lebanon); Ousama Halablab (Beirut Arab University, Lebanon); Ilige Salameh (The Lebanese University, Lebanon); Safaa Baydoun (Beirut Arab University, Lebanon)

Etude De La Nidification Des Populations De Tourterelles Turque (Streptopelia Decaocto) Et Des Bois (Streptopelia Turtur) Dans Les Oasis Sud-est Des Ziban (Biskra, Algérie)

Konoz Abssi (Centre de Recherche Scientifique et Technique sur les Régions Arides, Algeria); Yassine Farhi (Université M'hamed Bougara de Boumerdes, Algeria); Karima Yahoui (Université M'hamed Bougara de Boumerdes, Algeria); M. Belhamra (Université M Khider, Algeria)

The First Identification, Isolation and Characterization of Bronchioloalveolar Progenitor Cells From the Lungs of Lambs

Alain Abi-Rizk (University of the Holy Spirit of Kasli, Lebanon)

Production De Biodiesel Par Microalgues En Photobioréacteur: Mise En Œuvre Et Optimisation Des Conditions De Culture D'une Souche Accumulatrice De Lipides

Lisa Zaouk (Université Libanaise, Lebanon); Hosni Takache (Lebanese University & Faculty of Agricultural Sciences, Lebanon)

Effet De La Date De Récolte, Des Conditions Climatiques Et Écologiques Sur Le Rendement, La Composition Chimique Et La Bioactivité Des Huiles Essentielles De l'Origanum Syriacum, l'Origanum Ehrenbergii Et l'Origanum Libanoticum

Raviella Zgheib (Université Saint Esprit de Kaslik, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Marc Beyrouthy (Holy Spirit University - Kaslik, Lebanon)

Estimation of Biological Indicators of the Conservation Agriculture in Lebanon: A Sustainability Study

Charles Jabbour (Holy Spirit University of Kaslik, Lebanon); Nabil Nemer (Holy Spirit University of Kaslik, Lebanon); Suzy Roupheal (Lebanese Agricultural Research Institute & Lebanese University, Lebanon)

Evaluation of Awassi Ram Breeding Soundness in LARI and ICARDA Improved Herds

Joseph Sahakian (Notre Dame University-Louaize, Lebanon); Mira Hajjar (Notre Dame University-Louaize, Lebanon); Ghaith Mikdashi (Lebanese University, Lebanon); Aynalem Haile (International Center for Agricultural Research in Dry Area, Lebanon); Khaled Houchaimi (Lebanese Agricultural Research Institute, Lebanon); Pauline Y. Aad (Notre Dame University-Louaize, Lebanon)

Polysaccharides and Lipids Derived From Lebanese Marine Algae: Toward New Bioactive Amphiphilic Compounds

Nouha Sari (Lebanese University, Lebanon); Samir Taha (Lebanese University, Lebanon); Hiba Mawlawi (Lebanese University- Health 3, Lebanon); Asma Chibani (Lebanese University- Health 3, Lebanon); Thierry Benvegnu (ENSCR, France)

Poster Session 1- Theoretical and Experimental Chemistry and Physics I

Physics

Room: EDST Lobby

Chairs: Tarek Bahyeldeen (Beirut Arab University, Lebanon), Oussama Bazzi (Lebanese University, Lebanon), Abbas Hijazi (Lebanese University, Lebanon), Khaled Hussein (Lebanese University, Lebanon), Adnan Naja (Lebanese University, Lebanon), Michel Nakhl (Lebanese University, Lebanon)

Optical Response of Copper Nanoparticle Using Mie Theory and Coupled Dipole Approximation

S. Marhaba (Beirut Arab University, Lebanon)

Improvement of the Performances of an Organic-Inorganic Hybrid Material Based on Epoxy Function: Applications to Fabrication of Photonic Devices

Elias Mechref, E. (Universite Montpellier2 & Laboratoire Charles Coulomb, France); Sylvie Etienne-Calas (University of Montpellier 2, France); Jihane Jabbour (Lebanese University, Lebanon); Saly Yaacoub (Lebanese University, Lebanon); Rabih Tawk (Lebanese University, Lebanon); Doumit Zaouk (Lebanese University, Lebanon); Antonio Houry (Lebanese University, Lebanon); Pascal Etienne (University of Montpellier 2, France)

Influence of the Spacer Layer Dielectric Properties on the Coupled Plasmonic Modes of a Gold Film-Nanoparticles System

Rana Nicolas (Université Libanaise, Lebanon); Gaëtan Lévêque (Institut D'Electronique, de Microélectronique et de Nanotechnologie, France); Jeremie Beal (Université de Technologie de Troyes, France); Ziad Herro (Lebanese University, Lebanon); Michel Kazan (American University of Beirut, Lebanon); Rabah Boukherroub (Université Lille 1, France); Abdellatif Akjouj (Institut D'Electronique, de Microélectronique et de Nanotechnologie, Lebanon); Pierre-Michel Adam (university of Technology of Troyes, France); Sabine Szunerits (Université Lille 1, France); Thomas Maurer (Université de Technologie de Troyes, France)

Digrammes D'équilibre Entre Phases:des Investigations Expérimentales à La Modélisation

Fouzia Adjadj (Université de Batna, Algeria); Malek Bouharkat (Université de Batna, Algeria); Naceur Amel (Université de Batna, Algeria)

Preparation and characterization of metal oxides thin films doped with iron oxide magnetic fibers

Nadine Abboud (Lebanese University, Lebanon); Cynthia Eid (Université Libanaise, Lebanon); Salam Zakaria (Université Libanaise, Lebanon); Antonio Houry (Lebanese University, Lebanon)

Structural and Electronic Properties of CuInSe₂ and CuGaSe₂

Fouad El Haj Hassan (Lebanese University, Lebanon); Andrei Postnikov (Université de Lorraine, France); Juliana Srour, Js (Lebanese University - Lebanon & Lorraine University - Metz - France, Lebanon)

Mesure De La Constante Diélectrique De Structures Planaires Multicouches En Cavité Résonante En Hyperfréquence

Radwan Dib (Université Libanaise & Université Jean Monnet, Lebanon); Ahmad Rafihi (Universite Libano Francaise, Lebanon); Akil Jrad (Lebanese University, Lebanon)

Ab Initio Calculations and Rovibrational Studies of the Molecules CaCl

Mahmoud Korek (Beirut Arab University, Lebanon); Hussam Jawhari (Beirut Arab University, Lebanon)

Electronic Structure with Dipole Moment of Alkaline Helium Compounds

Mahmoud Korek (Beirut Arab University, Lebanon); Sahar Kontar (Beirut Arab University, Lebanon)

Theoretical Calculation with Rovibrational Study of the SiN Diatomic Molecule

Mahmoud Korek (Beirut Arab University, Lebanon); [Salman Mahmoud](#) (Université de Montpellier 2, Lebanon); Mikhael Bechelany (Université de Montpellier 2, Lebanon); Philippe Miele (Université de Montpellier 2, Lebanon)

Electronic Structure of the Molecule BaS

Mahmoud Korek (Beirut Arab University, Lebanon); [Sally Shawa](#) (Beirut Arab University, Lebanon)

Theoretical and Spectroscopic Studies of the Molecule HgSe

Mahmoud Korek (Beirut Arab University, Lebanon); [Nabil Kadhém](#) (Beirut Arab University, Lebanon)

Electronic Structure and Rovibrational Calculation of Yb Diatomic Compound

Mahmoud Korek (Beirut Arab University, Lebanon); [Samir Tohme](#) (Beirut Arab University, Lebanon)

Theoretical Calculation of a Lanthanide Monofluoride

Mahmoud Korek (Beirut Arab University, Lebanon); [Batoul Helbawi](#) (Beirut Arab University, Lebanon)

Theoretical Calculation of the Molecule Alp

Mahmoud Korek (Beirut Arab University, Lebanon); [Hani Al-korek](#) (Beirut Arab University, Lebanon)

Fabrication and Characterization of Electrospray Deposited Nd-doped SnO₂ Thin Films

[Georges Beainy](#) (Lebanese University, Lebanon); Doumit Zaouk (Lebanese University, Lebanon); Rabih Tawk (Lebanese University, Lebanon); Nadine Abboud (Lebanese University, Lebanon); Herve Rinnert (Université de Lorraine, France); Michel Vergnat (Université de Lorraine, France)

Conception D'un Réseau De Capteurs Acoustiques Passifs Pour Un Contrôle-Santé Intégré Basse Consommation Et Non-Intrusif Des Structures Aéronautiques Et Conduites De Transport De Fluides

Youssef Zaatar (Lebanese University, Lebanon); [Karl Hourany](#) (Lebanese University, Lebanon); Jamal Assaad (IEMN - DOAE - MIMM Team, UVHC, France)

Effect of Carbon Type (Graphite, CFs and Diamond) on the Hydrogen Desorption of Mg-C Powder Mixtures Under Microwave Irradiation

Abdel Salam Awad (Lebanese University, Lebanon); [Toufic Tayeh](#) (Lebanese University, Lebanon); Eliane Asmar (Lebanese University, Lebanon); Mirvat Zakhour (Lebanese University, Lebanon); [Michel Nakhli](#) (Lebanese University, Lebanon); Jean-Louis Bobet (University Bordeaux 1, France)

Elaboration De Poudres De Titanate Par Mécanosynthèse Et Leur Caractérisation Électrique

Tawfik Al Naboulsi (Lebanese University, Lebanon); [Mirvat Zakhour](#) (Lebanese University, Lebanon)

Métamatériaux 3D Pour Des Applications Dans L'Infrarouge

[Johnny Moughames](#) (University of Troyes, France); [Ziad Herra](#) (Lebanese University, Lebanon); Safi Jradi (Université de Technologies, France); Aurélien Bruyant (University of Technology of Troyes, France)

Friday, March 28

09:00 - 10:00

Keynote Speaker 3

Room: Annex X1

Chair: Antoine El Semrani (Lebanese University, Lebanon)

Can agricultural biotechnology mitigate climate change effects and increased demand on food?

Khaled Makkouk (Conseil National de Recherche Scientifique CNRS, Lebanon)

Keynote Speaker 4

Room: Annex X2

Chair: Hayssam Kotob (Lebanese University, Lebanon)

Research and Education: an Inevitable Truth in the Academic Word

Nehme Azoury (Hole Spirit University USEK, Lebanon)

10:00 - 10:30

Coffee Break

Room: EDST Lobby

10:30 - 12:00

Biological, Medical, Pharmaceutical, Health Sciences IV

Inflammation and Cardiovascular Disease

Room: Annex X1

Chairs: Ramez Chahine (Lebanese University, Lebanon), Kazem Zibara (Doctoral School of Sciences and Technology, Lebanese University, France)

Exploration Des Propriétés Biologiques Et Analyse Protéomique Du Venin Du Serpent Montivipera Bornmuelleri à La Recherche Des Biomolécules D'intérêts

Claudine Accary (Lebanese University, Lebanon); Souad Hraoui-Bloquet (Lebanese University, Lebanon); Monzer Hamze (Lebanese University, Lebanon); Riyad Sadek (American University, Lebanon); Walid Hleihel (Holly Spirit University, Lebanon); Jean Claude Desfontis (LUNAM, France); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon)

Characteristics of Nonalcoholic Fatty Liver Disease Induced in Wistar Rats Following Four Different Diets

Nicole Sayegh (University of Saint Joseph, Lebanon); Rana Bitar (Saint Joseph University, Lebanon); Viviane Smayra (Saint Joseph University of Beirut, Lebanon); Aline Khazzaka (Saint Joseph University of Beirut, Lebanon); Omar Obeid (AUB,

Lebanon); Raymond Sayegh (Saint Joseph University, Lebanon); Hassan Younes (Institut Polytechnique Lasalle Beauvais, Lebanon)

TNAP: a Key Player in Vascular Calcification

Maya Fakhry (Lebanese University, Lebanon); Eva Hmeide (Lebanese University, Lebanon); Bassam Badran (Lebanese University, Lebanon); René Buchet (University of Lyon1, Lebanon); Anne Briolay (University of Lyon 1, France); Laurence Bessueille (University of Lyon 1, France); David Magne (University of Lyon 1, France)

Nitric Oxide and the Inhibition of PPAR Gamma Decrease the Proliferation of VSMCs: Relationship with Gi Protein Levels

Lama Hamadeh (University of Balamand, Lebanon); Hiba El-Hajj (American University of Beirut, Lebanon); Marcel Bassil (Benta Pharma Industries & University of Balamand, Lebanon)

Biological, Medical, Pharmaceutical, Health Sciences V

Genetics and Forensic Sciences

Room: Annex X2

Chairs: Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon), Zouhair K Attieh (American University of Science and Technology, Lebanon)

Effect of Motherless Paternity Cases on the Interpretation of Parentage Investigations in a Population with Recurrent Inbreeding Practices

Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Genetic Relatedness Pitfalls on DNA Kinship Analysis

Sarah Abbas (American University of Science and Technology & University of Lausanne, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Forensic DNA Profile Matching in Genetically Isolated Populations: Pros and Cons

Sarah Abbas (American University of Science and Technology & University of Lausanne, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon); Ansar El Andari (American University of Science and Technology, Lebanon)

Evaluation of Urinary Biomarkers of Benzene in Gas Station Workers in Lebanon

Bouchra Nakhle (American University of Science & Technology, Lebanon); Ousama Al Yamani (American University of Science & Technology, Lebanon); Amer Sakr (American University of Science & Technology, Lebanon); Zouhair Attieh (American University of Science & Technology, Lebanon)

Implication of the Nkx2.2 Transcription Factor in Gliomagenesis

Layal Falha (Lebanese University, Lebanon); Bassam Badran (Lebanese University, Lebanon); Jean Philippe Hugnot (INSERM U1051, Institut des Neurosciences de Montpellier, Hôpital St ELOI, France); Pierre Olivier Guichet (INSERM U1051, Institut des Neurosciences de Montpellier, Hôpital St ELOI, France); Mohamad Mortada (Lebanese University, Lebanon)

Social, Economic and Behavioral Sciences

Room: Room R1

Chairs: Charbel Salloum (USEK, Lebanon), Nizar Hariri (Saint Joseph University & Association Libanaise Pour l'Economie Sociale, Lebanon)

Board of Directors and Bank Performance: Beyond Agency Theory

Charbel Salloum (USEK, Lebanon); Elie I Bouri (USEK, Lebanon); Danielle Khalife Fraiha (USEK, Lebanon)

Employee Engagement in Family and non-Family Firms

Andre Azoury (Al Kafaat University, Lebanon); Lindos Daou (Holy Spirit University of Kaslik, Lebanon); Fares Sleilaty (Holy Spirit University of Kaslik (USEK), Lebanon)

Shopping Motivations and Store Environment: A Value-Based Approach

Nehme Azoury (Holy Spirit University USEK, Lebanon); Charbel El Khoury (Holy Spirit University of Kaslik (USEK), Lebanon)

Attitudes Des Étèves Et Proposition D'un Module d'Enseignement De La Biotechnologie Dans Une Perspective Socioconstructiviste

Hiba Haidar (Universite Libanaise, Lebanon); Paula Abou Tayeh (Université Libanaise, Lebanon); M. Chouman (Universite Libanaise, Lebanon)

L'impact Du Climat Scolaire Sur La Satisfaction Des Enseignants dans La Région De Beyrouth

Nisrine Saouli (Université Saint-Joseph, Lebanon)

Time Management for a Full Time Working Undergraduate Engineering Student: Challenges and Solutions

Ali Obeid (Lebanese International University, Lebanon)

Rationalities of Social Actors: Ego Vs. Group Identification

Joseph El Gemayel (American University of Technology, Lebanon); Christophe Sibertin-Blanc (University of Toulouse, France)

Arab Identity Vs. European Identity: Challenges and Opportunities for Unification Patterns

Joëlle Chamieh (Université Catholique de Louvain, Belgium)

Engineering III

CCE

Room: Room R2

Chair: Abed Ellatif Samhat (Lebanese University, Lebanon)

Management of Energy Consumption in Healthcare Institutions

Mona Aridi (Lebanese University, Lebanon); Bassam Hussein (Lebanese International University, Lebanon); Mohamad Hajj-Hassan (Lebanese International University, Lebanon)

Timing Synchronization of MIMO-OFDM System

Ali S Rachini (INSA Rennes, France); Fabienne Nouvel (INSA, France); Ali Beydoun (IUL, Lebanon); Bilal Beydoun (Lebanese University, Lebanon)

A Mode-Matching Model for a Longitudinally Slotted Circular Waveguide Antenna

Hussam Tarek Baytie (Al Manar University of Tripoli, Lebanon); Ali Harmouch (American University of Science and Technology, Lebanon); Walid Kamali (AL-Manar University of Tripoli, Lebanon); Ahmad Rafhii (ULF, Lebanon); Mustapha Ziade (Lebanese University & Branch 1, Lebanon)

Android Based Remote Screenshot Application Using Smart Phones

Charbel Boustany (American University of Science and Technology, Lebanon); Wassim Zgheib (American University of Science and Technology, Lebanon)

Satellite Communication in Amateur Radio

Hussein Kabbara (MUT, Lebanon); Amani Raad (Doctor at the Lebanese University, Doctoral School of Science and Technology, Lebanon); Walid Kamali (AL-Manar University of Tripoli, Lebanon)

Multi-Homing in Information-Centric Networks

Ghina Dandachi (Lebanese University- Doctoral School for Sciences and Technology, Lebanon); Nada Chendeb Taher (Lebanese University, Lebanon); Tijani Chahed (Telecom SudParis, France); Salah Eddine Elayoubi (Orange Labs, France)

Engineering IV

Civil

Room: Room R3

Chairs: Ghassan Chebbo (Lebanese University, Engineering, Lebanon), Roba Dalati (Lebanese University, Lebanon)

Recycled Concrete Aggregate

Aya Bayoumi (Rafik Hariri University, Lebanon); Leticia El Zein (Rafik Hariri University, Lebanon); Jad Khodor (Rafik Hariri University, Lebanon); Mirvat Atef Abdallah (Rafik Hariri University, Lebanon)

Non Linear Numerical Modeling of Earth Slopes Under Seismic Loading

Sahar Ismail (Rafic Hariri University & Lebanese University, Lebanon); Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon)

Mass Movement Hazard Zonation for Lebanon

Chadi Abdallah, Abdallah (CNRS - Remote Sensing Center, Lebanon); Elsy Ibrahim (Notre Dame University, Lebanon); Leila Khalaf (Notre Dame University, Lebanon); Dalia Youssef Abdel Massih (Notre Dame University - Louaize, Lebanon); Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon); Muhsin Rahhal (Saint Joseph University, Lebanon); Jacques Harb (Notre Dame University, Louaize, Lebanon); George Nasr (Lebanese University, Lebanon); Alex Sursock (National Council for Scientific Research, Lebanon)

Modélisation Numérique De L'interaction Tunnel - Sol - Structure: Effet De L'ordre De Construction Pour Deux Tunnels Inclinés

Samira Houssein (Université Libanaise, Lebanon); Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon)

Geo-Characterization and Analysis of Dahr El Baidar Slope

Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon); Dalia Youssef Abdel Massih (Notre Dame University - Louaize, Lebanon); Muhsin Rahhal (Saint Joseph University, Lebanon); Jacques Harb (Notre Dame University, Louaize, Lebanon); Chadi Abdallah, Abdallah (CNRS - Remote Sensing Center, Lebanon); George Nasr (Lebanese University, Lebanon); Leila Khalaf (Notre Dame University, Lebanon); Elsy Ibrahim (Notre Dame University, Lebanon); Grace Abou-Jaoude (Lebanese American University, Lebanon); Alex Sursock (National Council for Scientific Research, Lebanon)

Experimental Study of the Behavior of Circular Footing on Cohesive Soil Stabilized with Gravel

Maki Jafar Mohammed Al-Waily (Fondation of Technical Education, Iraq); Mayssa Al-Dabbas (Al-Musiab Technical Institute, Iraq); Mustafa Hamid Jasim (Al-Musiab Technical Institute, Iraq)

Theoretical and Experimental Chemistry and Physics II

Chimistry

Room: Room R4

Chairs: Natalie Estephan (Holy Spirit University of Kaslik, Lebanon), Ali Hachem (Lebanese University, Lebanon)

Ladder-Like Versus Hexagonal Organic-Inorganic Hybrid Materials in the Extraction of Lead Ions

Marie-Jose Zacca (Universite Montpellier 2, Lebanon); Sami Habib (University of the Holy Spirit, Keserwan, Lebanon); John Hanna El-Nakat (University of Balamand, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Ahmad Mehdi (Université Montpellier 2, France)

Synthesis and Characterization of New Silylated Boron Complexes and Their Incorporation Into Mesoporous Silica

Fatima Abi Ghaida (Université Libanaise, Lebanon); Daoud Naoufal (Lebanese University, Lebanon); Ahmad Mehdi (Université Montpellier 2, France)

Design and Characterization of Nanoparticles for Naproxen and Ibuprofen Encapsulation

Dima Moussa (University of Balamand & Faculty of Sciences, Lebanon); Rima Kassab (University of Balamand, Lebanon); Paolo Yammine (University of Balamand, Lebanon)

Study of the Discoloration Rate of Rhodamine B as a Function of the Operating Parameters At Pt and BDD Electrodes

Hamzeh Mallah (Lebanese University, Lebanon); Daoud Naoufal (Lebanese University, Lebanon); Ali I. Safa (Lebanese University, Lebanon); Mouhiaddine El Jamal (Lebanese University, Lebanon)

Food security, Environment, Agriculture II

Environment

Room: Room R5

Chair: Khaled Makkouk (Conseil National de Recherche Scientifique CNRS, Lebanon)

Compteur De Colonies Bactériennes à Faible Coût Et Haute Fiabilité En Utilisant Le Traitement d'image:Application Aux Colonies d'Escherichia Coli

Marwa Zeitoun (Institut de Recherche Agricole Libanais, Lebanon); Toufic Wehbe (Université Libanaise, Lebanon)

Calixpyrrole - Modified Silica for the Removal of Chlorophenols From Aqueous Media

Hilal Njameddine (Beirut Arab University, Lebanon); Bassem El-Hamaoui (Beirut Arab University, Lebanon); Ismail Abbas (Beirut Arab University, Lebanon)

Short Term Variation in Emergency Hospital Admissions for Respiratory and Cardiovascular Diseases and Fine Particulate Air Pollution: An Eco-Epidemiological Time-Series Study

Myriam Mrad Nakhle (USJ Faculty of Sciences and UPMC UMR S 1136 EPAR, Lebanon); Wehbeh Farah (Faculty of Sciences- USJ, Lebanon); Maher Abboud (Faculty of Sciences- USJ, Lebanon); Nelly Ziade Zoghbi (Medical School USJ and HDF, Lebanon); Isabella Annesi-Maesano (INSERM UMR S 1136 and UPMC paris 6, France)

Study and Implementation of Automatic Water Treatment System

Ousama Barakat (MUT, Lebanon); George Nasr (MUT, Lebanon); Amani Raad (Doctor at the Lebanese University, Doctoral School of Science and Technology, Lebanon); Yara EL-Moghrabi (MUT, Lebanon)

Monitoring Post-Fire Shrub Recovery on Pinus Brutia Burned Sites

Amira El-halabi (University of Balamand, Lebanon); George Mitri (Institute of Environment, University of Balamand, Lebanon); Mireille Jazi (Institute of Environment, University of Balamand, Lebanon)

A New Genus of Trichomyiinae (Diptera:Psychodidae) From Upper Cretaceous Amber of New Jersey

Dany Azar (Lebanese University, Lebanon); Rita Mouawad (Lebanese University, Lebanon); Youmna Salamé (Lebanese University, Lebanon)

Food security, Environment, Agriculture III

Agriculture

Room: Room R6

Chairs: Khalil Helou (Saint Joseph University, Lebanon), Ahmad Elmoll (Université Libanaise, Lebanon)

Soil Forest Association as a Key to Soil Mapping From Satellite Image

Talal Darwish (CNRS, Lebanon); Ghaleb Faour (National Council for Scientific Research, Lebanon); Ihab Jomaa (Lebanese Agricultural Research Institute, Lebanon)

Soil Forest Ecosystem and Forest Fire Effect on Soil Organic Carbon Stock in Lebanon

Talal Darwish (CNRS, Lebanon); Mohammad Abou Daher (Ministry of Agriculture, Lebanon); Ihab Jomaa (Lebanese Agricultural Research Institute, Lebanon); Ghaleb Faour (National Council for Scientific Research, Lebanon); Mohamad Mostafa Awad (National Council for Scientific Research, Lebanon); Mouin Hamze (National Council for Scientific Research, Lebanon)

Traditional Almond Orchards in Lebanon, a Substantial Genetic Variability

Bariaa Hamadeh (Université Libanaise, Lebanon); Helene Joly (CIRAD, France); Pascale Maizi (Montpellier Supagro/ Institut des Régions Chaudes, Lebanon); Lamis Chalak (The Lebanese University, Lebanon)

Biology of the Reproduction and Feeding in Some Economical Important Migrant Fish Species From the Red Sea Into Syrian Waters

Waad Sabour (Tishreen University, Syria)

Analyse Des Variations Saisonnières Des Séries Temporelles De IVDN Et TSTA Pour Des Régions Cultivées Du Blé Au Liban

Mahmoud Mourad (Université Libanaise, Lebanon)

12:00 - 13:30

Lunch

Room: University Restaurant

13:30 - 14:30

Keynote Speaker 5

Chimie et applications

Room: Annex X1

Chair: Bassam Badran (Lebanese University, Lebanon)

Le développement socio-économique et ses résultantes: une époque principalement soutenue par la Chimie et ses applications

Veronique Kazpard (Lebanese University, Lebanon)

Keynote Speaker 6

Education

Room: Annex X2

Chair: Hayssam Kotob (Lebanese University, Lebanon)

L'interdisciplinarité pour le développement des compétences du XXI^e siècle

Fadi El Hage (Universite Saint Joseph (USJ), Lebanon)

14:30 - 16:00

Biological, Medical, Pharmaceutical, Health Sciences VI

Biochemistry

Room: Annex X1

Chairs: Faten El Hage (Holly Spirit University of Kaslik, Lebanon), Helene Greige (Lebanese University, Lebanon)

Redesigning the Door to Doctor (D2D) Process in Emergency Department: The Key to a Successful Patient-Centered Story

Maryah Damlaj (American University of Beirut, Lebanon)

Glucagon-Like-Peptide-1 Receptor and Insulin Receptor Signaling Upon Treatment of Diabetic Rats with Insulin, Exendin-4 or Selenium

Sonia Abou Najem (Beirut Arab University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Mohamed Moustafa (Beirut Arab University, Lebanon)

Anabaseine Analogues: Binding At A7 Nicotinic Cholinergic Receptors

Hanan Ragab (BAU, Lebanon); Jin Sung Kim (VCU, USA); Richard Glennon (VCU, USA); Malgorzata Dukat (VCU, USA); Hernavo Navarro (RTI, USA)

The Effect and Mode of Action of Epinephrine on Water Movement and the Na⁺/K⁺ ATPase in CaCo-2 Cells

Layla El Moussawi (American University of Beirut, Lebanon); Sawsan Kreydiyyeh (American University of Beirut, Lebanon)

Effect of Chlorpyrifos Exposure During Development on Skeletal and Smooth Muscles in Juvenile and Adult Rats

Walaa Darwiche (Université de Picardie Jules Verne & Université Libanaise, Faculté des Sciences, France); Jérôme Gay-Quéheillard (Université de Picardie Jules Verne, France); Wissam Joumaa (Université Libanaise, Faculté des Sciences, Lebanon); Hassan Khachfe (LIU, Lebanon); Stéphane Delanaud (Université de Picardie Jules Verne, France); Véronique Bach (Université de Picardie Jules Verne, France); Wiam Ramadan (Lebanese International University & Lebanese University, Faculty of Sciences, Lebanon)

Study of the Mechanism of Inhibition of HIV-1 Integrase by DKA Molecules

Léa El Khoury (Université Saint Joseph de Beyrouth, Lebanon); Krystel El Hage (Université Saint Joseph de Beyrouth, Lebanon); Farah Ammar (Saint Joseph University, Lebanon); Jean Philip Piquemal (Université Pierre et Marie Curie, France); Nohad Gresh (Université Paris Descartes, France); Richard Maroun (Université Saint Joseph de Beyrouth, Lebanon); Zeina Hobaika (Université Saint Joseph de Beyrouth, Lebanon)

Investigation Into the Function of A Novel Bacterial Protein Kinase Family

Takla El khoury (University of Balamand & University of Balamand, Lebanon); Jihad Atieh (Balamand University, Lebanon); Jean-Michel Jault (Université Joseph Fourier, France); Anne-emmanuelle Foucher (Centre National de la Recherche Scientifique & Institut de Biologie Structurale-UMR5075 CNRS/CEA/UJF, France); Catherine Wicker-Planquart (Université Joseph Fourier, France)

Biological, Medical, Pharmaceutical, Health Sciences VII

Immunology

Room: Annex X2

Chairs: Assem ElKak (Lebanese University, Lebanon), Mostapha Mourad (Beirut Arab University, Lebanon)

CYP3A4, Tacrolimus and Kidney Transplantation

Stephanie Antoun (Balamand, Lebanon)

Effect of the Monomeric and/or Pentameric Forms of CRP in Combination with oxLDL on the Generation of Pro-Inflammatory Cytokines and ROS Production by U937- Derived Macrophages

Imtissal Krayem (University of Balamand, Lebanon); Samer Bazzi (University of Balamand, Lebanon); Marc Karam (University of Balamand, Lebanon)

Monoclonal Antibodies That Recognize Important Functional Elements of the HIV-1 Integrase Enzyme

Farah Ammar (Saint Joseph University, Lebanon); Zeina Hobaika (Université Saint Joseph de Beyrouth, Lebanon); Serge Fermandjian (Université Paris Descartes, France); Richard Maroun (Université Saint Joseph de Beyrouth, Lebanon)

Study of IL-1 β and IL-1RA Gene Polymorphisms in Familial Mediterranean fever(FMF)

Jose Noel Ibrahim (Lebanese University, Lebanon); Eliane Chouery (Saint Joseph University, Lebanon); Jean Claude Lecron (Université de Poitiers, France); Andre

Megarbane (Saint Joseph University, Lebanon); Myrna Medlej-Hashim (Lebanese University, Lebanon)

CD3bright $\Gamma\delta$ T Cells are the Major Innate Source of Interleukin-17A During Pneumococcal Infection in Mice

Maya Hassane (Lebanese University, Lebanon); Bachar Ismail (Lebanese University, Lebanon); Fouad Dabboussi (Lebanese University, Lebanon); François Trottein (Institut Pasteur de Lille, France); Christophe Paget (Institut Pasteur de Lille, France)

Science and Mathematics Education

Education

Room: Room R1

Chairs: Saouma Boujaoude (American University of Beirut, Lebanon), Marie-Thérèse Saliba (Holy Spirit University of Kaslik, Lebanon)

Étude De La Relation Entre Les Conceptions Des Enseignants Universitaires De Sciences Concernant La Science, Leurs Pratiques Pédagogiques En Classe Et Les Conceptions De Leurs Étudiants Concernant La Science:une Approche Méthodologique Mixte

Reine El Khoury (Universite Saint Joseph (USJ) & Faculty of Science Education, Lebanon); Saouma Boujaoude (American University of Beirut, Lebanon); Daniel Favre (Universite Montpellier 2, France); Fadi El Hage (Universite Saint Joseph (USJ), Lebanon)

Automated Self-Assessment System for Academic Programs Accreditation

Manal Zahreldine (Beirut Arab University, Lebanon); Ali El-Zaart (Beirut Arab University, Lebanon); Islam Elkabani (Beirut Arab University, Mathematics and Computer Science Department, Lebanon)

Interplay Between Dragging and Proof in Dynamic Geometry Environment

Madona Chartouny (Université Saint Joseph, Lebanon); Iman Osta (Lebanese American University, Lebanon); Nawal Abou Raad (Lebanese University, Lebanon)

An Evaluation of Teaching Perspectives, Practices, and Assessment Techniques Vis-à-Vis the Learning Outcomes: A Multiple Case Study At Four Private Universities in Lebanon

Rita Nasrallah (Universite Saint Joseph, Lebanon)

Difficulties of Constructing and Formulating Geometric Proofs by Lebanese Middle School Students Learning Math in English

Hanan Al Masri (Lebanese American University, Lebanon)

Exploring Statistical Literacy in Lebanon

Rima Sibai (Lebanese American University, Lebanon)

Engineering V

CCE

Room: Room R2

Chairs: Charles Yaacoub (Holy-Spirit University of Kaslik, Lebanon), Fadia Taher (Lebanese University, Lebanon)

A Park Meter System Using a Fixed Wireless Network

Mohamad Abdelhay (MUT, Lebanon); Khaled Mechref (Lebanese University, Lebanon)

Statistical Steganalysis of Chaos Based Spatial Steganography

Dalia Battikh (Lebanese University & INSA/Rennes, Lebanon); Bassem Bakhache (University of Lebanon, France); Mohamad Khalil (Azm center for research in bioTechnology & Lebanese Univesrity, Lebanon); Olivier Deforges (IETR / INSA Rennes, France); Safwan El Assad (École Polytechnique de l'Université de Nantes & IETR Laboratory, France)

Implementing Symmetric-Key Cryptography Using Numerical Methods

Youssef Hassoun (American University of Science and Technology, Lebanon); Hiba S. Othman (American University of Science and Technology, Lebanon)

Positional Accuracy in Smart-Phones and Its Effect on LBS Applications

Wassim Katerji (Notre Dame University, Lebanon); Miguel Ángel Manso Callejo (Universidad Politécnica de Madrid, Spain); Ramon Alcarria (Universidad Politecnica de Madrid, Spain)

New Approach for Land Mine Localization Using Wireless Biosensors

Hiba Haj Chhade (Université Libanaise, Lebanon); Fahed Abdallah (Heudiasyc UMR CNRS 6599, University of Technology of Compiègne, France); Imad Mougharbel (Lebanese University, Lebanon); Hassan Ghaziri (Beirut Research and Innovation Center, Lebanon)

Stratégies D'ordonnement Temps Réel Pour Les Systèmes Embarqués Autonomes En Énergie

Rola Osta (Université de Nantes, France); Maryline Chetto (Universite de Nantes & IRCCyN Lab, France); Rafic Hage Chehade (Lebanese University, Lebanon)

Engineering VI

Mechanics

Room: Room R3

Chair: Khalil Khoury (Lebanese University, Lebanon)

DUCTILE IRON ROLLS FOR THE STEEL ROLLING MILLS When CMRDI Had to Accept the Enormous Metallurgical Challenge

Adel Nofal (Researcher, Egypt)

Evaluation and Modeling of Steam Drive in Diatomite Under Reservoir

Reza Kootiani (Universiti Teknologi Malaysia, Malaysia); Ariffin Bin Samsuri (Universiti Teknologi Malaysia, Malaysia)

Numerical Model for Composite Material Laminates with Ply Drop in Compression

Pierre Rahme (Notre Dame University, Lebanon); Charbel Bou-Mosleh (Notre Dame University, Lebanon); Ghazi Asmar (Notre Dame University, Lebanon); Frederic Lachaud (Université de Toulouse, France)

Evaluation of Adult to Child Scaling Procedure of Thoracic Mechanical Response to Pendulum Impact

Ghina Kanj (Lebanese International University, Lebanon); Mohamad Hammoud (Lebanese International University, Lebanon); Ali Hage-Diab (Lebanese International University, Lebanon)

Supersonic Solution for Steady Euler-Poisson System

Saja Borghol (Lebanese University, Lebanon)

Theoretical and Experimental Chemistry and Physics III

Chemistry

Room: Room R4

Chairs: Daoud Naoufal (Lebanese University, Lebanon), Rola Zaydan (Holy Spirit University Of Kaslik, Lebanon)

Synthesis and characterization of carbocyclic thymidyl, uridyl, cytidyl and adenosyl hydrazide-hydrazones for diabetic nephropathy

Ali Koubeissi (American University of Beirut, Lebanon); Mira Diab El-Harakeh (American University of Beirut, Lebanon); Fatima Mohsen (American University of Beirut, Lebanon); Assaad Eid (American University of Beirut, Lebanon); Kamal Bou Hadir (American University of Beirut, Lebanon)

Zeolite-Y Supported Nickel Catalysts for Hydrogen and Syngas Production

Jane Estephane (University of Balamand, Department Of Chemical Engineering, Lebanon)

Synthesis and Characterization of BNT Thin Films

Sara Abou Dargham (Lebanese University, Lebanon); Jihane Jabbour (Lebanese University, Lebanon); Youssef Zaatar (Lebanese University, Lebanon); Jamal Assaad (IEMN - DOAE - MIMM Team, UVHC, France); Antonio Khoury (Lebanese University, Lebanon); Denis Remiens (IEMN - DOAE - MIMM Team, UVHC, France); Doumit Zaouk (Lebanese University, Lebanon)

Evaluation of a Cereal Milling By-Product for the Low Cost Production of Bacillus Thuringiensis in Submerged Fermentation

Jihane Rahbani (Université Saint Joseph, Lebanon); Dominique Salameh (Université Saint Joseph, Lebanon); Cedric Brandam (Université de Toulouse, France); Roger Lteif (Université Saint-Joseph, Lebanon)

Characteristics of Phospholipon 90H-liposomes Loading Clove Essential Oil and Its Main Component Eugenol

Carine Sebaaly (Lebanese University, Lebanon); Hatem Fessi (Université Claude Bernard Lyon 1, France); Catherine Charcosset (Université Claude Bernard Lyon 1, France); Helene Greige (Lebanese University, Lebanon); Alia Jraij (Lebanese University, Lebanon)

Food security, Environment, Agriculture IV

Environment

Room: Room R5

Chairs: Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon), Ahmad Koubeissi (Lebanese University, Lebanon)

Stérilisation De L'eau Par Filtration à Travers Des Supports Poreux Imprégnés D'huiles Essentielles De Lavande, Origan Et Romarin

Randa Khoury (LPA-EDST, Lebanon); Ola El Korhani (Lebanese University, Lebanon); Doumit Zaouk (Lebanese University, Lebanon); Antonio Khoury (Lebanese University, Lebanon); Sophie Cerneaux (Université Montpellier 2, France); Marc Beyrouthy (Holy Spirit University - Kaslik, Lebanon); Ghassan Srour (Holy Spirit University - Kaslik, Lebanon); David Cornu (Université Montpellier 2, France)

Variations of Marine Sediment Characteristics in the Lebanese Northern Coast

Milad Fakhri (National Center for Marine Sciences-CNRS, Lebanon)

Anthropogenic CO₂ and Acidification in the Mediterranean Sea During May 2013

Abed El Rahman Hassoun (National Council for Scientific Research & University de Perpignan Via Domitia, Lebanon)

Etude Des Teneurs Et De La Mobilité Des Éléments Trace Métalliques (Pb, Cd Et Cu) Dans Les Sédiments Marins Du Port De Tripoli (Liban)

Carine Abi-ghanem (National Centre for Marine Sciences & CNRSL, Lebanon); Gaby Khalaf (National Council for Scientific Research Lebanon, Lebanon); Elie Najjar (National Center for Marine Sciences, Lebanon); Rajwana Ghieh (National Center for Marine Sciences, Lebanon); Rima Manneh (University of Balamand, Lebanon); Henri El Zakhem (University of Balamand, Lebanon)

Characterization of Wastewater Released in Beirut Coastal Region: Difference of Pollutant Discharges Between Day and Night-Weekday and Weekend

Elias Michel Maatouk (PRASE, Ecole Doctorale des Sciences et de Technologie, Université Libanaise, Lebanon); Antoine El Semrani (Lebanese University, Lebanon)

Mathematics and Computer Sciences II

Room: Room R6

Chair: Mazen Saad (Ecole Centrale de Nantes, France)

Global Dynamics of a Model of T Cell Proliferation in Lymphopenia Conditions

Houssein Ayoub (University of Bordeaux, France); Michel Langlais (University of Bordeaux Segalen, France); Bedreddine Ainseba (University of Bordeaux Segalen, France)

Long-time Convergence of an Adaptive Biasing Force Method: Variance Reduction by Helmholtz Projection

Houssam Alrachid (Université Libanaise (EDST) and Ecole des Ponts ParisTech, Lebanon); Tony Lelievre (Université Paris Est, Lebanon)

A New Numerical Model for Simulating Groundwater Flow in Karst Aquifers

Elie Saikali (Lebanese International University, Lebanon); Mohamad Muhieddine (Lebanese International University, Lebanon)

Semi-classical Asymptotic Formula for the Sum of Eigenvalues for 3D Magnetic Schrödinger Operators

Marwa Nasrallah (Ecole Doctorale Sciences and Technologies, Lebanon)

Energy Concentration of the Two Dimensional Ginzburg-Landau Functional with Variable Magnetic Field

Kamel Attar (Lebanese University, Lebanon)

Exploring MAS' Performance on Aggregated Wireless Sensor Networks

Maher Assi (Lebanese University, Lebanon); Alia Ghaddar (Lebanese University, Lebanon); Samar Tawbi (Lebanese University, Lebanon)

16:00 - 16:30

Coffee Break

Room: EDST Lobby

16:30 - 18:00

Biological, Medical, Pharmaceutical, Health Sciences VIII

Cancerology

Room: Annex X1

Chairs: Bassam Badran (Lebanese University, Lebanon), Nadine Darwiche (American University of Beirut, Lebanon)

Mechanism of Action of the Antitumoral Synthetic Retinoid ST1926 in Colon Cancer

Rana Abdel-Samad (American University of Beirut, Lebanon); Hala Gali Muhtasib (American University of Beirut, Lebanon); Raed Hmadi (American University of Beirut, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Nadine Darwiche (American University of Beirut, Lebanon)

Human Recombinant Arginase I (Co)-PEG5000 [HuArgI (Co)-PEG5000]-Induced Arginine Depletion is Selectively Cytotoxic to Human Glioblastoma Cells

Oula Khoury (Lebanese American University, Lebanon); Amira Bekdash (Lebanese American University, Lebanon); Everett Stone (University of Texas, USA); Georges Georgiou (University of Texas, USA); Arthur Frankel (Simmons Comprehensive Cancer Center, USA); Ralph Abi Habib (Lebanese American University, Lebanon)

Role of SUMOylation in Full Antiestrogenicity

Nader Hussein (Lebanese University, Lebanon); Khalid Hilmi (Lebanese University, Lebanon); Rodrigo Mendoza Sanchez (McGill University, Canada); Mohamed El Ezzy (Université de Montréal, Canada); Houssam Ismail (Université de Montréal, Canada); Chantal Durette (Université de Montréal, Canada); Martine Bail (Université de Montréal, Canada); Maria Johanna Rozendaal (Université de Montréal, Canada); Michel Bouvier (Université de Montréal, Canada); Pierre Thibault (Université de Montréal, Canada); Jim Gleason (McGill University, Canada); Sylvie Mader (Université de Montréal, Canada)

Diabetes and Colorectal Cancer: Could AMPK Signaling Pathway Explains the Link

Assaad Eid (American University of Beirut, Lebanon)

Growth-inhibitory Effects of the Natural Phytoestrogen Ferutinin and Its Analogs on Human Breast Cancer Cells

Rémi Safi (Lebanese University, Lebanon); Evelyne Delfourne (Université Paul Sabatier, France); George Hilal (Saint Joseph University, Lebanon); Frédéric Rodriguez (Université Paul Sabatier, France); Mona Assaf (Lebanese University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Fadia Najjar (Lebanese University, Lebanon)

Fine Particulate Matter: Chemical Characterization, Cytotoxicity, Metabolic Activation, Genotoxicity and Epigenetic Alterations in Human Bronchial Epithelial Cells BEAS-2B

Mireille Borgie (Université Libanaise, Lebanon); Z. Dagher (Université Libanaise, Lebanon); Frederic Ledoux (Université du Littoral Côte D'Opale, France); A Verdin (Université du Littoral Côte D'Opale, France); Dorothee Dewaele (Université du Littoral Côte D'Opale, France); Paul Genevray (Université du Littoral Côte D'Opale, France); Fabrice Cazier (Université du Littoral Côte D'Opale, France); Helene Greige (Lebanese University, Lebanon); Dominique Courcot (Université du Littoral Côte d'Opale, France)

Biological, Medical, Pharmaceutical, Health Sciences IX

Medicinal plant

Room: Annex X2

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Hassan Rammal (Lebanese University, Lebanon)

Effect of Saffron Against Damage Induced by Total Particulate Matter From Argile Smoke on Endothelial and Smooth Muscle Cell

Fatmeh Beydoun (Lebanese University, Lebanon); Ramez Chahine (Lebanese University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon)

Curcumol "a Bioactive Natural Product of Curcuma Longa L." Ameliorates Hyperglycemia and Attenuates Thermal Hyperalgesia in a Diabetic Mouse Model

Karim Raafat (Beirut Arab University & Faculty of Pharmacy, Lebanon); Amal Omar (Beirut Arab University, Lebanon)

Salvia libanotica fruticosa, as an Important Antioxidant and Anti-inflammatory Herb Indigenous to Lebanon

Rima Boukhary (Beirut Arab University, Lebanon); Karim Raafat (Beirut Arab University & Faculty of Pharmacy, Lebanon); Asser Ghoneim (Beirut Arab University, Lebanon); Maha Aboul-EIA (Beirut Arab University, Lebanon); Abdalla El-Lakany (Beirut Arab University, Lebanon)

Extraction and Analysis of Volatile Oil and Polysaccharides From Laurus and Determination of Its Importance in Medicine, Pharmacy and Nutrition

Mohamad Shmitt (Lebanese University, Lebanon); Hussein Kanaan (Lebanese University, Lebanon)

Phenolic Acids and Flavonoids in the Leaves and Flowers of Elaeagnus Angustifolia

Souha Yafi (University of Balamand, Lebanon); Youssef Bakkour (Lebanese University, Lebanon); John Hanna El-Nakat (University of Balamand, Lebanon); Fawaz Omar (Lebanese University, Lebanon)

Engineering VII

CCE

Room: Room R2

Chairs: Walid Kamali (AL-Manar University of Tripoli, Lebanon), Wassim El Falou (Lebanese University, Lebanon)

Smart Home Design for the Lebanese Housing Sector

Rami Salame (LIU, Lebanon); Ali Naim (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Rabih Rammal (LIU, Lebanon); Marc Anthony Mannah (Lebanese International University, Lebanon)

Comparative Study of Spectrum Sensing Methods

Abbass Nasser (Université de Bretagne Occidentale, France); Ali Mansour (ENSTA-Bretagne, Brest, France); Koffi-Clement Yao (Université de Bretagne Occidentale, France); Hussein Charara (Lebanese University, Faculty of Science, Lebanon); Mohamad Chaitou (Lebanese University, Faculty of Science, Lebanon)

Sensors for Trace Detection of Explosives: A Review

Karim Youssef Kabalan (American University of Beirut, Lebanon); Mohammed Al-Husseini (American University of Beirut, Lebanon); Ali El-Hajj (American University of Beirut, Lebanon); Lama Moukalled (American University of Beirut, Lebanon);

Youssef Mouneimne (American University of Beirut, Lebanon); Imad Mougharbel (Lebanese University, Lebanon)

Improved Antennas for High Power Microwave Applications

Hilal M. El Misilmani (American University of Beirut & Beirut Research and Innovation Center, Lebanon); Mohammed Al-Husseini (American University of Beirut, Lebanon); Karim Youssef Kabalan (American University of Beirut, Lebanon); Ali El-Hajj (American University of Beirut, Lebanon)

Adaptive Virtualization Mechanism for Cloud Computing Centers

Ibrahim Cheaitou (Telecom Sudparis/SAMOVAR, France); Mohamad Chaitou (Lebanese University, Faculty of Science, Lebanon); Hussein Charara (Lebanese University, Faculty of Science, Lebanon); Hind Castel (Institut Telecom-Telecom SudParis, France)

Substitution-Permutation Networks Based Authentication Protocol: Toward A New Privacy Preserving Approach for Traditional Verification Patterns

Pierre Abi-Char (American University of Technology, Lebanon); Georges Abboudeh (American University of Technology, Lebanon)

Theoretical and Experimental Chemistry and Physics IV

chemistry

Room: Room R3

Chairs: Nada Jaber (Université Libanaise, Lebanon), Kamil Rahme (Notre Dame University, Lebanon)

Étude Du Développement Des Décharges Dans L'eau Et Leur Impact Sur Le Traitement Des Eaux

Rafic Kattan (Lebanese University & UL, Lebanon)

Analysis of Polycyclic Aromatic Hydrocarbons (PAHs) in the Sediments of the Port of Tripoli

Rima Manneh (University of Balamand, Lebanon); Sawsan Ayoubi (University of Balamand, Lebanon); Karim Soufi (University of Balamand, Lebanon); Carine Abi-ghanem (National Centre for Marine Sciences & CNRSL, Lebanon); Gaby Khalaf (National Council for Scientific Research Lebanon, Lebanon); Elie Najjar (National Council for Scientific Research Lebanon, Lebanon); Henri El Zakhem (University of Balamand, Lebanon)

Divalent Heavy Metals Adsorption on EDTA Modified Mesoporous Materials

Zeinab Ezzeddine (Lebanese University & Poitiers University, Lebanon); Isabelle Batonneau-Gener (Poitiers University, France); Hussein Hamad (Lebanese University, Lebanon); Yannick Pouilloux (Poitiers University, France); Zeinab Saad (Lebanese University, Lebanon); Veronique Kazpard (Lebanese University, Lebanon)

Comparaison Des Sites Catalytiques Actifs Dans La Réaction D'oxydation Totale Du Toluène Pour Les Solides 2,14% Ag/CeO₂ Préparés Par Imprégnation Et Par Dépôt-Précipitation

Mira Skaf (University of Balamand, Lebanon); Samer A Aouad (University of Balamand, Lebanon); Renaud Cousin (Univ Lille Nord de France, France); Edmond Abi-Aad (Univ Lille Nord de France, Lebanon); Antoine Aboukaïs (Univ Lille Nord de France, France)

Noble Metal Nanoparticles in Water: Synthesis, Characterization and Applications

Kamil Rahme (Notre Dame University, Lebanon); Justin Holmes (University College Cork, Ireland)

Theoretical and Experimental Chemistry and Physics V

Physics

Room: Room R4

Chair: Bilal Habib Beydoun (Lebanese University, Lebanon)

Characterization of Low Power Nano Schottky Junctions for Developing Nano Devices

Khouloud Eledlebi (Khalifa University, UAE); Mohd Rezeq (Khalifa University of Science, Technology and Research, UAE); Mohammed Elnaggar (Khalifa University, UAE)

Caracterisation of Zinc Oxyde Prepared by Electrochemical Deposition Method

Walaa Nasser Al Dine (Lebanese University, Lebanon); Randa Khoury (Lebanese University, Lebanon); Ziad Herro (Lebanese University, Lebanon); Antonio Khoury (Lebanese University, Lebanon); Ibrahim Bou-Malham (Lebanese University, Lebanon)

Refined Adaptive Optics Simulation with Wide Field of View for the ELT

Manal Chebbo (MUBS & Durham- UK, Lebanon); Alastair Basden (Durham University, United Kingdom); Richard Myers (Durham University, United Kingdom); Nazim Bharmal (Durham University, United Kingdom); Tim Morris (Durham University, United Kingdom)

Impacts De La Production De L'énergie Électrique Sur L'environnement

Malek Bouharkat (Université de Batna, Algeria); Fouzia Adjadj (Université de Batna, Algeria)

Nano-carbones Pour Batteries à Haute Densité D'énergie Et De Puissance

Ziad Fawal (Lebanese University, Sciences 3, Lebanon); Mohamad Khalil (Azm center for research in bioTechnology & Lebanese Univesrsity, Lebanon); Marc Dubois (Université Blaise Pascal, France); Katia Guérin (Université Blaise Pascal, France); André Hamwi (Université Blaise Pascal, France)

HEMT with Fluorine Implanted Below the AlGaN/GaN Interface for Normally-Off Operation

Saleem Hamady (Lebanese University, Lebanon); Frédéric Morancho (Univ de Toulouse, France); Bilal Beydoun (Lebanese University, Lebanon); Patrick Austin (Univ de Toulouse, France); Mathieu Gavelle (Univ de Toulouse, France)

Nanospace Engineering of Porous Carbon for Natural Gas and Hydrogen Storage

Jimmy Romanos (Lebanese American University, Lebanon); G. Suppes (University of Missouri, Colombia); L. Firlaj (Université Montpellier 2, France); Bogdan Kuchta (Lebanese American University, Lebanon); K. Idrobo (The Center for Nanophase Materials Sciences, USA); Y. Lin (University of Missouri, Colombia); P. Pfeifer (Lebanese American University, Lebanon)

Food security, Environment, Agriculture V

environnement

Room: Room R5

Chairs: Elsa Sattout (Notre Dame University, Lebanon), Rami Zreik (American University of Beirut, Lebanon)

A New Genus of Sycoracinae (Diptera: Psychodidae) From Upper Cretaceous Amber of: New Jersey

Dany Azar (Lebanese University, Lebanon); Younna Salamé (Lebanese University, Lebanon)

Trace Metals in Phosphate Fertilizers: Investigation on Their Inputs in Lebanese Soils

Valerie El Kazzi (Université Libanaise, Lebanon); Antoine El Semrani (Lebanese University, Lebanon); Bruno Lartiges (Université Paul Sabatier, France); Veronique Kazpard (Lebanese University, Lebanon); Ahmad Koubeissi (Lebanese University, Lebanon)

Trace Metal and Physico-Chemical Assessment of Soil and Sediments Taken in A Dammed Watershed

Nour Hanna (Lebanese University, Lebanon); Veronique Kazpard (Lebanese University, Lebanon); Hussein Kanbar (Lebanese University & Lorraine University, Lebanon); Ahmad Koubeissi (Lebanese University, Lebanon); Antoine El Semrani (Lebanese University, Lebanon); Nabil Amacha (Litani River Authority (LRA), Lebanon)

Managing the Water Pollution for Environmental Sustainability in Port of Tripoli - Lebanon

Dima Merhaby (Lille1 University, Lebanon); Rouba Meccassi (Lebanese University, Lebanon); Baghdad Ouddane (Lille1 University, France); Ahmad Tamer (Office Exploitation of Port of Tripoli, Lebanon); Abdel Rahman Hajar (Office Exploitation of Port of Tripoli, Lebanon); Jalal Halwani (Lebanese University, Lebanon)

Etudes Des Variations Spatiales Et Temporelles Des Niveaux De Contaminations Atmospheriques De PCBs, OCPs Et HAPs A L'Aide D'Echantillonneurs Actifs Et Passifs

Ahmad Elmoll (Université Libanaise, Lebanon)

Laboratory Calibration of POCIS Sampler for the Evaluation of the Contamination Level in Lebanese Aquatic Media

Aisha Al Ashi (Lebanese University, Lebanon); Farouk Jaber (Lebanese University, Lebanon); Helene Budzinski (Université Bordeaux 1, France)

Food security, Environment, Agriculture VI

Agriculture

Room: Room R6

Chairs: Ali Ismail (Lebanese University - Faculty of Agricultural Sciences, Lebanon), Gaby Khalaf (National Council for Scientific Research Lebanon, Lebanon)

Marine Biodiversity and Fishery Resources in Syro-Lebanese Seawater

Sami Lakkis (Lebanese University, Lebanon); Waad Sabour (Tishreen University, Syria)

Population Structure and Sexual Maturity of the Pufferfish Lagocephalus scleratus (Osteichthyes, Tetraodontidae) in the Lebanon and Syrian Marine Waters (Eastern Mediterranean)

Gaby Khalaf (National Council for Scientific Research Lebanon, Lebanon); Waad Sabour (Tishreen University, Syria)

First Information on Abundance, Biology and Distribution of the Red Giant Shrimp (*Aristaeomorpha Foliacea*) in Lebanese Waters

Stefano Lelli (National Council for Scientific Research - Lebanon, Lebanon); Gaby Khalaf (National Council for Scientific Research Lebanon, Lebanon)

Grass Weed Seedlings of Lebanon: A Relational Database for Accurate Identification

Tanos G. Hage (Notre Dame University-Louaize, Lebanon)

Chemical Composition and Antimicrobial Activity of Indigenous Thymol-Carvacrol Chemotypes Species in Lebanon

Monay Al Hafi (Holy Spirit University, Lebanon); Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Sensibility of *Cephalcia Tannourinensis* Against Entomopathogenic Nematodes in Vitro and in Vivo

Martine Rehayem (National Council for Scientific Research -CNRS, Lebanon); Elise Noujeim (National Council for Scientific Research in Lebanon, Lebanon); Nabil Nemer (Holy Spirit University of Kaslik, Lebanon)

20:00 - 22:00

Gala Dinner

Room: University Restaurant

Saturday, March 29

09:00 - 10:00

Keynote Speaker 7

Math

Room: Annex X1

Chair: Raafat Talhouk (Lebanese University, Lebanon)

The Cauchy problem for dispersive partial differential equations

Luc Molinet (Tours University, France)

10:00 - 10:30

Coffee Break

Room: EDST Lobby

10:30 - 12:00

Biological, Medical, Pharmaceutical, Health Sciences X

Ethics

Room: Annex X1

Chairs: Colette Kabrita (Notre Dame University, Lebanon), Rita Nabout (Lebanese University, Lebanon)

Assessing the Effect of Cultural Background of Medical Students on Their and Perception of Human Body Dissection At the American University of Beirut

Abdo Jurjus (American University Of Beirut, Lebanon)

La Pulpotomie Sur Molaires Temporaires: Étude Comparative Entre Deux Matériaux D'obturation Le MTA Et Le MM-MTA

Bruno Melki (Université Saint Joseph, Lebanon); Jean-Claude Abou Chedid (Université Saint Joseph, Lebanon); Nada Farhat Mchayleh (Université Saint Joseph, Lebanon)

Challenges Facing Research Ethics Committees in the Middle East

C. Aad Naba (ClinGroup Holding, Lebanon); M. Karaki (ClinPharm, Lebanon); N. Cheaib (ClinGroup Holding, Lebanon); R. Sabbah (ClinServ International, Lebanon)

Pharmacovigilance in Clinical Trials: Current Practice and Challenges

N. Cheaib (ClinGroup Holding, Lebanon); C. Aad Naba (ClinGroup Holding, Lebanon); R. Sabbah (ClinServ International, Lebanon); M. Karaki (ClinPharm, Lebanon)

Standards of Clinical Trials: Objective Comparison Between Regional and Global Standards

J. Yammine (ClinGroup Holding, Lebanon); M. Karaki (ClinPharm, Lebanon); C. Aad Naba (ClinGroup Holding, Lebanon); N. Cheaib (ClinGroup Holding, Lebanon); R. Sabbah (ClinServ International, Lebanon)

Is He or is He Not the Father? Pros and Cons Effect of Following Standardized Interpretations

Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Parentage Testing: Are We Statistically Accurate? A Retrospective Analysis of Parentage Cases in the Lebanese Population

Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Biological, Medical, Pharmaceutical, Health Sciences XI

Genetics and Forensic Sciences

Room: Annex X2

Chairs: Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon), Zouhair K Attieh (American University of Science and Technology, Lebanon)

Effect of GSM Electromagnetic Waves Exposure on Slow-Type Skeletal Muscles in Female Rats

Wiam Ramadan (Lebanese International University & Lebanese University, Faculty of Sciences, Lebanon); Zeinab El-Dirani (Lebanese University, Lebanon); Hassan Khachfe (LIU, Lebanon); Eric Estève (Joseph Fourier University, France); Mohamed Moustafa (Beirut Arab University, Lebanon); Mehnieh Baccouri (Lebanese University, Lebanon); Wissam Joumaa (Université Libanaise, Faculté des Sciences, Lebanon)

Régulation De L'activité d'ASB2a, Une E3 Ubiquitine Ligase, Un Régulateur Des Cellules Hématopoïétiques

Rim Zakaria, zakaria (Université Paul Sabatier-Toulouse, France); Isabelle Lamsoul (Université de Toulouse, France); Christel Moog-Lutz (Université de Toulouse, France); Bernard Monsarrat (Université de Toulouse, France); Odile Schiltz (Université de Toulouse, France); Sandrine Uttenweiler-Joseph (Université de Toulouse, France); Pierre Lutz (Université de Toulouse, France)

Associations with Early Life Socio-Economic Position in Adult DNA Methylation

Nada Borghol (McGill University, Canada)

Gene Looping is Conferred by Activator-Dependent Interaction of Transcription Initiation and Termination Machineries

Belal El Kaderi (Lebanese International University, Lebanon)

Cytochrome P450 Enzymes and Their Role in Diabetic Nephropathy: A Novel Mechanistic Pathway Leading to Kidney Complications

Assaad Eid (American University of Beirut, Lebanon)

Biological, Medical, Pharmaceutical, Health Sciences XII

Epidemiology

Room: Room R1

Chair: Issam Kassab (Université Libanaise, Lebanon)

X-STR Allele Frequency in the Lebanese Population and Their Effectiveness in Forensic Casework

Marc Obeid (American University of Science and Technology, Lebanon); Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

When Encountering Y-STR Profiling Genghis Khan Effect, Search for the X

Marc Obeid (American University of Science and Technology, Lebanon); Ansar El Andari (American University of Science and Technology, Lebanon); Mouayyad Al Azem (American University of Science and Technology, Lebanon); Sarah Abbas (American University of Science and Technology & University of Lausanne, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

The Discrimination Power of Y-STR Profiling Among Lebanese

Mouayyad Al Azem (American University of Science and Technology, Lebanon); Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

How Efficient is Y-STR DNA Profiling in Criminal Investigations Within Lebanese Villages?

Mouayyad Al Azem (American University of Science and Technology, Lebanon); Sarah Abbas (American University of Science and Technology & University of Lausanne, Lebanon); Hiba S. Othman (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Scientific Study of the Immediate Fatigue of Prepubertal Students While Carrying a Heavy Load of 20% of the Body Weight

Iman Hamzeh (MUT, Lebanon); Alaa Daher (Azm Center for Research in Biotechnology, Lebanon); Mohamad Halimi (Universite Saint Joseph & Université Libanaise, Lebanon)

Impact of the Clinical Pharmacist Counseling on Lebanese Patient's Warfarin Knowledge and Therapeutic INR Levels

Diana Malaeb (Lebanese International University, Lebanon); Nermine Choumane (Lebanese International University, Lebanon)

Drug Utilization Review of Antibiotics in a Lebanese Emergency Department

Diana Malaeb (Lebanese International University, Lebanon); Mouin Allawi (Lebanese International University, Lebanon)

Mathematics and Computer Sciences III

Math

Room: Room R2

Chairs: Luc Molinet (Tours University, France), Bassam Mourad (Lebanese University, Lebanon)

Generalized Spin^c Killing Spinors

Roger Nakad (Notre Dame University NDU, Lebanon); Nadine Grosse (Universitat Leipzig, Germany)

The Completed Zeta Function and the Riemann Hypothesis

Badih Ghusayni (Lebanese University, Lebanon)

A Posteriori Analysis of an Iterative Algorithm for the Navier-Stokes Equations

Christine Bernardi (Paris VI, France); [Jad Dakroub](#) (Université Saint-Joseph, Lebanon); Gihane Mansour (Université Saint-Joseph, Lebanon); Toni Sayah (Université Saint-Joseph, Lebanon)

New Directions in the Stability Theory of Differential Equations

[Ziad Zahreddine](#) (American University of Technology, Lebanon)

Reconstruction of Bandlimited Signals Via Entropy Maximization

[Nassar Haidar](#) (AUL, Lebanon)

A Family of Refinements of Heinz Inequalities of Matrices

[Hassane Abbas](#) (Lebanese University, Lebanon)

Food security, Environment, Agriculture VII

Food Security

Room: Room R3

Chairs: Fouad Dabboussi (Lebanese University, Lebanon), Claude Daou (Lebanese Agricultural Research Institute, Lebanon)

First Comprehensive Genetically Modified Organisms Testing in Lebanon: Screening, Identification and Quantification of GM Soybean Imports

Joyce Sakr (American University of Science and Technology, Lebanon); [Narmeen Mallah](#) (American University of Science and Technology, Lebanon); [Lamis Chalak](#) (The Lebanese University, Lebanon); [Gretta Abou-Sleymane](#) (American University of Science and Technology -, Lebanon)

Comprehensive Qualitative and Quantitative Determination of Sulfonamides and Their Metabolites in Animal Tissues Using Orbitrap High-Resolution Mass Spectrometry

[Hiba Abdallah](#) (Lebanese Atomic Energy Commission, Lebanon); [Carine Arnaudguilhem](#) (CNRS/UPPA, France); [Abir Majzoub](#) (Lebanese University, Lebanon); [Rabih Mourad](#) (Lebanese University, Lebanon); [Haifa Abdulrahim](#) (Lebanese University, Lebanon); [Ryscard Lobinski](#) (CNRS/UPPA, France); [Farouk Jaber](#) (Lebanese University, Lebanon)

Food Safety in Beirut - Links Between Microbiological Quality of Fresh Vegetables and Knowledge, Attitudes and Practices of Food Handlers

[Dima Faour-Klingbeil](#) (Plymouth University, Lebanon); [Victor Kuri](#) (Plymouth University, United Kingdom); [Zeina Kassaify](#) (American University of Beirut, Lebanon)

Development of a Real-Time PCR Assay for Penicillium Expansum Quantification and Patulin Estimation in Apple Samples

[Joanna Tannous](#) (Saint-Joseph University, Lebanon); [Ali Atoui](#) (CNRS, Lebanon); [Olivier Puel](#) (INRA, France); [Isabelle Oswald](#) (INRA, France); [Roger Lteif](#) (Université Saint-Joseph, Lebanon)

Sensory and Instrumental Analysis of Chemical Contaminants Migration From PET Bottles of Mineral Waters

[Reine Barbar](#) (Holy Spirit University of Kaslik, Lebanon); [Chawki Saliba](#) (Lebanese University, Lebanon); [Damia Makary](#) (Holy Spirit University of Kaslik, Lebanon)

Adding Micellar Casein to the Milk in Shanklish Processing

[Chadi Hosri](#) (Holy Spirit University of Kaslik, Lebanon); [Lea Nehme](#) (Holy Spirit University of Kaslik, Lebanon)

Engineering VIII

CCE

Room: Room R4

Chairs: Mohamad Ramadan (Lebanese International University, Lebanon), Joseph Zalaket (USEK, Lebanon)

Context Identification From Video-surveillance Scenes of Multipurpose Halls

Nour Charara (University of Applied Sciences of Western Switzerland & EDST - Lebanese University, Switzerland); Iman Jarkss (Lebanese University - EDST, Lebanon); Maria Sokhn (University of Applied Sciences of Western Switzerland - Sierre, Switzerland); Omar Abou Khaled (University of Applied Sciences of Western Switzerland, Fribourg, Switzerland); Elena Mugellini (University of Applied Sciences of Western Switzerland, Fribourg, Switzerland)

Conference Organization Using Ontology Based Information Correlation From Multiple Web Resources

Hassan Nouredine (University of Applied Sciences of Western Switzerland & Lebanese University, Switzerland); Iman Jarkss (Lebanese University - EDST, Lebanon); Maria Sokhn (University of Applied Sciences of Western Switzerland - Sierre, Switzerland); Omar Abou Khaled (University of Applied Sciences of Western Switzerland, Fribourg, Switzerland); Elena Mugellini (University of Applied Sciences of Western Switzerland, Fribourg, Switzerland)

Future Communication Systems: Cognitive Radios From Antenna Point of View

Mhamad Hassanein Rabah (IFSTTAR & University Lille 1 Nord de France, France); Divitha Seetharamdoo (IFSTTAR, LEOST & Univ Lille Nord de France, France); Rafik Addaci (IFSTTAR, LEOST, France)

Non Stationary Analysis of Gait-Ground Reaction Force Signals

Rami Alkhatib (Rafik Hariri University, Lebanon); Mohamad O. Diab (Rafik Hariri University & College of Engineering, Lebanon); Bassam Moslem (Rafik Hariri University & RHU, Lebanon); Christophe Corbier (Université Jean-Monnet, France); Mohamed ElBadaoui (University of Jean Monet, France)

A Textbook on Renewable Energy for the Elementary Schools in Lebanon

Loren Makki (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Adam Chamas (LIU, Lebanon); Khaled A. Chahine (Lebanese International University, Lebanon); Elias El-Khoury (LIU, Lebanon); Ahmad Haddad (Lebanese International University, Lebanon)

Le Memristor: quatrième Élément De Base En Électronique

Abdennaceur Kachouri (Laboratoire d'Electronique et des Technologies de l'Information, Tunisia); Mounir Samet (Laboratoire d'Electronique et des Technologies de l'Information, Tunisia); Nada Rebhi (Laboratoire d'Electronique et des Technologies de l'Information (LETI) ENIS, Tunisia)

Cogeneration Systems Integration Into Lebanese Electric Grid

Joseph Al Asmar (Université de Technologie de Belfort-Montbéliard, France)

Theoretical and Experimental Chemistry and Physics VI

Physics

Room: Room R5

Chairs: Antonio Khoury (Lebanese University, Lebanon), Ziad Fawal (Lebanese University, Sciences 3, Lebanon)

Generating Function Method and Its Applications to Quantum, Nuclear and Group Theory

Mehdi Hage-Hassan (Université Libanaise, Lebanon)

A New Approach of the Second Born Approximation with an Extended Basis of Intermediate States: Ionization of Atomic Hydrogen by Electrons

Bassem Hmouda (Université de Lorraine - SRSMC - Metz, Lebanon); Adnan Naja (Lebanese University, Lebanon); Khaled Hussein (Lebanese University, Lebanon); C Dal Cappello (University of Lorraine, France)

Stabilized Finite Element Approach for Fluid-Structure Interaction

Stephanie Feghali (Université La Sagesse, Lebanon); Elie Hachem (Center of Material Forming, Lebanon); Karim Hitti (USEK, Lebanon)

The Mechanism of External Concrete Sulfate Attack

Sayed Horkoss (Université Saint-Joseph, Lebanon); Simone Julien (Université de Toulouse, France); Gilles Escadeillas (Université de Toulouse, Lebanon); Toufic Rizk (Université Saint-Joseph, Lebanon); Roger Lteif (Université Saint-Joseph, Lebanon)

12:00 - 13:30

Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences I

Cancerology, Inflammation, Plant Medicinal

Room: **EDST Lobby**

Chairs: Hasnaa Bouharoun-Tayoun (Lebanese University, Lebanon), Soulaima Chamat (Lebanese University, Lebanon), Hoda ElBitar (AZM Center for Research in Biotechnology and Applications, Lebanon)

Role of StarD13 in Prostate Cancer Metastasis, Viability, and Tumorsphere Formation

Marie-Louise Aoun (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Melhem Bileine (Lebanese American University, Lebanon); Noura Ghazale (Lebanese American University, Lebanon); Sara Rida (Lebanese American University, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

The Role of GBA2 in the Chemo-Resistance of Melanomas

Mona Assaf (Lebanese University, Lebanon)

Establishing and Investigating the Functional Differences Between Murine Prostate Cancer Cell Lines From Androgen-Dependent and -Independent Tumors Generated From stem/progenitor Cells

Alissar Monzer (American University of Beirut, Lebanon); Rabih El-merahbi (American University of Beirut, Lebanon); Wassim Abou Kheir (American University of Beirut, Lebanon)

The Role of DJ1, a PTEN Inhibitor, and Sodium 4- Phenyl Butyrate in Cancer Cell Motility and Migration

Rawan Yassine (Lebanese American University, Lebanon); Noura Ghazale (Lebanese American University, Lebanon)

TPEN Induces DNA Damage in Human Colon Cancer Cells: Role of Chk1 and DNA-PK

Omar Rahal (American University of Beirut, Lebanon); Maamoun Fatfat (American University of Beirut, Lebanon); Bassam Osman (American University of Beirut, Lebanon); Khaled Machaca (Weill Cornell Medical College, Lebanon)

Ddx19 Helicase Functions in Maintenance of Genome Stability

Dana Hodroj (Lebanese University, Lebanon); Susan Martinez (CNRS-UPR1142, France); Benedicte Recolin (CNRS-UPR1142, France); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Domenico Maiorano (CNRS-UPR1142, France)

The Synthetic Retinoid ST1926 as a Novel Therapeutic Agent in Rhabdomyosarcoma

Hussein Basma (American University of Beirut, Lebanon); Nadine Darwiche (American University of Beirut, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Raya Saab (AUBMC, Lebanon)

Elucidation Des Mécanismes Impliqués Dans La Transformation De La Stéatose Hépatique Non Alcoolique Bénigne En Carcinome Hépatocellulaire: Implication Des Molécules Proinflammatoires

Rim Serhal (Université Saint Joseph, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon)

Analysis of Heart Rhythm Disorders Using Human iPSC

Mariam Jouni (Lebanese University, Lebanon); Nathalie Gaborit (University of Nantes, France); Kazem Zibara (Doctoral School of Sciences and Technology, Lebanese University, France); Patricia Lemarchand (University of Nantes, France)

Biological Evaluation of Thiazole Derivatives as a Potential Target for Cyclooxygenase. Inhibition.. Subcutaneous Air Pouch Animal Model

Eva Hmeide (Lebanese University, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Bassam Badran (Lebanese University, Lebanon); Assaad Eid (American University of Beirut, Lebanon); Ghewa Antoine El-Achkar (American University of Beirut, Lebanon); Ali Hachem (Lebanese University, Lebanon); Hussein Fayyad Kazan (Lebanese University, Lebanon); Mariam Jouni (569916217, France); May Mrad (American University of Beirut, Lebanon)

Co-expression of ACE and PAI-1 Genes Mutations Represent Increased Risk of Cardiovascular Disease Onset in Adult Peripheral Blood and Umbilical Cord Blood Independent From Environmental Causes

Jeanne d'Arc Al Bacha (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Katia Haddad (Faculty of Sciences, Section III, Lebanon); Charbel Khalil (Reviva Regenerative Medicine Center, Lebanon); Abir Maassarani (Centre Azm pour la Recherche en Biotechnologie, UAE); Sandy Hage (Reviva Regenerative Medicine Center, Lebanon); Albert Azar (Reviva Regenerative Medicine Center, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Norman Makdissy (Reviva Regenerative Medicine Center, Lebanon)

Gallotannin is a DNA Damaging Compound That Induces Senescence Independently of P53 and P21 in Human Colon Cancer Cells

Racha Al-Halabi (Lebanese University, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Saritha Chakilam (University of Erlangen-Nürnberg, Germany); Eva Hmeide (Lebanese University, Lebanon); Pietro Di Fazio (University of Marburg, Germany); Matthias Ocker (University of Marburg, Germany); Regine Schneider-Stock (University Erlangen-Nuremberg, Germany); Hala Gali Muhtasib (American University of Beirut, Lebanon)

Effect of Saffron on Jurkat T-leukemia Cells

Mohamad Ghabcha (Lebanese University, Lebanon); Nathalie Chahine (Université Libanaise, Lebanon); Hassane Makhoulf (Lebanese University, Lebanon); Mona Diab (Lebanese University, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences II

Cellular, Genetics, Immunologie

Room: **EDST Lobby**

Chairs: Wafaa El Bawab (Université Libanaise, Lebanon), Majida Jalbout (Université Libanaise, Lebanon), Yolla Makhour (Université Libanaise, Lebanon), Andre Megarbane (Saint Joseph University, Lebanon)

The Effect of Environmental Pollutants on Nerve Cells Myelination

Diala El Khoury (Notre Dame University-Louaize, Lebanon)

Cdc42 Relationship with Palladin and Rock in Invadopodia Formation in Astrocytoma

Emile Lakis (Lebanese American University, Lebanon); Bechara Saykali (Lebanese American University, Lebanon); Saleh AL Dimassi (Lebanese American University, Lebanon); Patrick Aouad (Lebanese American University, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

Rho A Versus Rho C: Localization, Role in Invadopodia Formation and Invasion of Astrocytoma Cells

Saleh AL Dimassi (Lebanese American University, Lebanon); Patrick Aouad (Lebanese American University, Lebanon); Emile Lakis (Lebanese American University, Lebanon); Mirvat Sibai (Lebanese American University, Lebanon); Gilbert Salloum (Lebanese American University, Lebanon); Melhem Bileine (Lebanese American University, Lebanon)

Determination of the Replication Timing of the Human Common Fragile Site FRA11D

Eliane El Achkar (University Of Balamand, Lebanon); Omar El-Mawas (University Of Balamand, Lebanon)

CYP3A4, Tacrolimus and Renal Transplantation

Stephanie Antoun (Balamand, Lebanon); Jihad Irani (University of Balamand, Lebanon); Maroun Abou jaoude (University of Balamand, Lebanon); Noha Hakimeh (University of Balamand, Lebanon); Elias Chalhoub (University of Balamand, Lebanon)

ApoL Expression in Neutrophils and Monocytes During Sepsis

Israa Akl (Université Libre De Bruxelles & Lebanese University, Belgium); Christophe Lelubre (A. Vésale Hospital, Belgium); Pierrick Uzureau (Université Libre de Bruxelles, Belgium); Alexandre Rousseau (A. Vésale Hospital, Belgium); Hussein Fayyad Kazan (Lebanese University, Lebanon); Bassam Badran (Lebanese University, Lebanon); Mohammed Ezeddine (Lebanese University, Lebanon); Karim Zouaoui Boudjeltia (A. Vésale Hospital, Belgium); Van Hamme (Free University of Brussels, Belgium)

CCL20 and Cartilage Metabolism

Mayssam Moussa (Saint Joseph University, Lebanon); Elie Saghbini (Hotel Dieu de France, Lebanon); George Hilal (Saint Joseph University, Lebanon); Rim Serhal (Université Saint Joseph, Lebanon); Oula El Atat (USJ, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon)

Sumac Fruit Extracts Exhibit Antioxidant and Pro-Oxidant Effect in a Concentration Dependent Manner on Muscle Stem Cells and Zebrafish Embryos

Fadia Najjar (Lebanese University, Lebanon); Francine Rizk (Univ Lib, Lebanon); Gilles Carnac (France, France); Tilda Abou Haidar (Lebanese University, Lebanon); [Sara Jabak](#) (Lebanese University, Lebanon); [Rita Samia](#) (Lebanese University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Aline Hamade (Lebanese University, Lebanon)

Effect of Long Term Proliferation of Adipose Derived Stem Cell (ADSC) on Immunomodulation and Stemness Markers

Oula El Atat (USJ, Lebanon); George Hilal (Saint Joseph University, Lebanon); Diane Antonios (Saint Joseph University, USA); Rim Serhal (Université Saint Joseph, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon)

Valorisation D'une Plante Libanaise, Geranium Robertianum (Extraction Et Purification Des Molécules Bioactives)

[Kamal Karhani](#) (AZM Center for Research in Biotechnology and Applications, Lebanon); Hoda ElBitar (AZM Center for Research in Biotechnology and Applications, Lebanon)

Protective Effect of Saffron Extracts Against Doxorubicin Cardiotoxicity

[Nathalie Chahine](#) (Université Libanaise, Lebanon); Nassab Ghannam (Lebanese University, Lebanon); Jean Hanna (Université Libanaise, Lebanon); Hassane Makhlouf (Lebanese University, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

Effect of Daucus Carota Major Compound on Malignancy as Well as Metastasis in a Screen of Cancer Cell Lines

[Paul Najm](#) (Lebanese American University, Lebanon); Mohammad Mroueh (Lebanese American University, Lebanon); Costantine Daher (Lebanese American University, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

Synthèse, Caractérisation, Activité Biologique Et Médicinale Des Complexes à Base De Thiosemicarbazones

[Amani Jaafar](#) (Lebanese University, Lebanon); Ghassan Ibrahim (Lebanese University, Lebanon); Gérald Larcher (Univ Angers, France); Daoud Naoufal (Lebanese University, Lebanon)

Berberis Libanotica: Investigation of Anticancer Effect on Leukemic Cell Lines

[Mona Assaf](#) (Lebanese University, Lebanon)

Anti-inflammatory and Anti-cancer Effects of the Ethanol and Purified Fraction of the Sea Cucumber Holothuria Polii

[Rana Nahhas](#) (American University of Beirut (AUB), Lebanon)

Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences III

Micobiology, Epidemiology, Ethics

Room: **EDST Lobby**

Chairs: Rania Azar (Plateforme de Recherche et D'Analyse en Sciences Environnementales, Lebanon), Ali Chokr (Université Libanaise, Lebanon), Ahmad Daher (Lebanese University, Lebanon), Hussein Kanaan (Lebanese University, Lebanon)

Purification and Biological Activities of Phospholipase A2 (Mb-PLA2) From the Venom of Montivipera Bornmuelleri, a Lebanese Viper

Claudine Accary (Lebanese University, Lebanon); Aziza Mantach (Laboratory of VRNSP, Lebanon); Assem ElKak (Lebanese University, Lebanon); Yassine Mallem (LUNAM - Oniris, France); Souad Hraoui-Bloquet (Lebanese University, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon)

A Method for the Selection of Peptide Inhibitors of the AcrAB-ToIC Multidrug Efflux Pump

Mary Doumit (Université Catholique de Louvain, Belgium); Patrice Soumillion (Université Catholique de Louvain, Belgium)

Matrices MALDI Bithiophéniques Spécifiques Aux Alcaloïdes: Étude Des Mécanismes Fondamentaux Et Applications

Ali Jaber (Université Libanaise, Lebanon); E Cheble (Université Libanaise, Lebanon); Ghassan Ibrahim (Lebanese University, Lebanon); Denis Seraphin (Université D'Angers, Lebanon)

Epidemiology and Resistance of S.aureus Infections in Beirut

Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon); Elie Salem (University of Balamand, Lebanon); Antoine Asmar (University of Balamand, Lebanon); Hisham Abdel-Nour (University of Balamand, Lebanon); Claude Afif (University of Balamand, Lebanon); Eid Azar (University of Balamand, Lebanon)

The Role of Inhibition/Extroversion in Raising Cultural Awareness At Kindergarten Level

Nadine Jaafarawi (Lebanese University, Lebanon)

Epidémiologie Moléculaire De La Cryptosporidiose Au Liban

Marwan Osman (Lebanese University, France); Dima El Safadi (Lebanese University, France); Sadia Benamrouz (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); Karine Guyot (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); El Moukhtar Aliouat (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); Monzer Hamze (Lebanese University, Lebanon); Eric Viscogliosi (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); Gabriela Certad (CIIL, Institut Pasteur de Lille, Laboratoire de BDPEE, Lille, France); Fouad Dabboussi (Lebanese University, Lebanon)

Body Mass Index and Psychological Distress Among Lebanese University Students: Examining the Moderating Effect of Gender and Cigarette Smoking

Linda Abou Abbas (Lebanese University, Lebanon); Pascale Salameh (Lebanese University, Lebanon); Isabelle Godin (University of Brussels, Belgium)

Outdoor Particulate Matter (PM) and Associated Cardiovascular Diseases in the Middle East

Zeina Nasser (Lebanese University, Lebanon); Pascale Salameh (Lebanese University, Lebanon); Alain Leveque (Université Libre de Bruxelles, Belgium)

What is the Effect of Lebanese Religious Subpopulations Inbreeding Practices on STR Allele Frequencies and DNA Interpretations

Mira Khazzouh (American University of Science and Technology, Lebanon); Ansar El Andari (American University of Science and Technology, Lebanon); Issam Mansour (American University of Science and Technology, Lebanon)

Effet Comparatif De La Fumée De Cigarette Et De Narghilé Sur Le Cœur Isolé

Sara Fahd (Université Libanaise, Lebanon); Nathalie Chahine (Université Libanaise, Lebanon); Jean Hanna (Université Libanaise, Lebanon); Saad Khairallah (Institut National de Pathologie, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

The Detection of Hepatitis B & D and Determine the Level of Liver Function Tests in Thalassaemia, Hemodialysis and Blood Donor Patients in Mosul City / Iraq

Basima Abdullah (University of Mosul, Iraq); Rasha Wasfy (University of Mosul, Iraq)

Escherichia Coli Isolated From Urinary Tract Infections of Lebanese Patients Between 2005 and 2012: Epidemiology and Profiles of Resistance

Marie-Anne Boujaoude (University of Balamand, Lebanon); Salam Samad (Centre Hospitalier du Nord, Lebanon); Khalil Masri (Centre Hospitalier du Nord, Lebanon); Eid Azar (University of Balamand, Lebanon); Claude Afif (University of Balamand, Lebanon); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon)

Reproduction and Spawning Time of Scorpaenascrofa Linnaeus, 1758 in the Western Part of the Libyan Coast

Esmail Shakman (Tripoli University, Libya)

The Antibacterial Effect of Some Natural Bioactive Materials

Daniella Farmawi (Beirut Arab University, Lebanon)

Formulation and In-Vitro Release Kinetics of Gastroretentive Floating Tablets of Fexofenadine Hydrochloride

H. Almaradni (Beirut Arab University, Lebanon); Wael M. Samy (Beirut Arab University, Lebanon); Mohamed Issa (Beirut Arab University, Lebanon); May Saab (Beirut Arab University, Lebanon)

Association Between Food Patterns and Asthma and Allergic Diseases: Data From the French Six Cities Study

Danielle Saadeh (Lebanese University & Ecole Doctorale des Sciences et Technologies, Lebanon); Pascale Salameh (Lebanese University, Lebanon); Chantal Raheison (Université de Bordeaux, France)

Poster Session 2- Engineering I

Mechanics, Civil, EE, Others

Room: EDST Lobby

Chairs: Barbar Akle (Lebanese American University, Lebanon), Bachar A. ElHassan (Lebanese University, Faculty of Engineering, Branch1 & order of Engineers and Architects - Tripoli, Lebanon), Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon)

Impact of Stator Teeth on Axial Flux Permanent Magnet Generator Losses

Bushra El Masri (Rafik Hariri University, Lebanon)

Evaluating the Efficiency of Wireless Power Transfer by Using the Inductive Coupling Technique

Reem Melki (Rafik Hariri University, Lebanon); Bassam Moslem (Rafik Hariri University & RHU, Lebanon)

Introduction of Advanced ADI Technologies to the Egyptian Industry

Adel Nofal (Researcher, Egypt); Lutz Reissig (IWM – Fraunhofer Institute Freiburg - Germany, Germany)

New Horizons for the Egyptian Metal Casting Industry

Adel Nofal (Researcher, Egypt)

Heat Transfer Performance of A Vertical Two-Phase Closed Thermosyphon

Rodolph Khalil (Holy Spirit University, Lebanon)

Study of Hydro Power Generation on the Ostwan River

Wael Hoblos (MUT, Lebanon); Marwan Jarkas (ULF, Lebanon)

Phase Change Materials (PCM) and Their Applications

Mohammad Jannoun (LIU, Lebanon); Mohammad Hemady (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Bakri Abdul Hay (LIU, Lebanon); Charbel Habchi (Lebanese International University, Lebanon)

Micro Hydro Electric Power System Design

Ibrahim Hamiye (LIU, Lebanon); Jamil Faroukh (LIU, Lebanon); Hassan Hassaui (LIU, Lebanon); Ali H Assi (LIU, Lebanon); Charbel Habchi (Lebanese International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon)

Recovering Heat From Shower Water. Prototype Development and Experimental Study

Mohamad Ramadan (Lebanese International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon); Abdallah Eid (Lebanese International University, Lebanon); Mostafa Kanj (Lebanese International University, Lebanon); Farah Hajj (Lebanese International University, Lebanon)

Using Speed-Bump for Power Generation - Prototype and Experimental Study

Ali Moshawrab (Lebanese International University, Lebanon); Mohammad Darwich (Lebanese International University, Lebanon); Farah Hajj (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanese International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon)

Comparison Between Hydraulic and Compressed Air Energy Storage Systems

Nazih Moubayed (Lebanese University, Lebanon); Joe Saab (LU & USJ, Lebanon); Charles Ayoub (LU and USJ, Lebanon)

Vibrational Properties of Si-Ge/Si Islands((113) and (111) Facets

Hassan Kassem (Lebanese University, Lebanon)

Poster Session 2- Engineering II

CCE

Room: EDST Lobby

Chairs: Ali Harmouch (American University of Science and Technology, Lebanon), Khaled H. Khalil (Universite Libanaise & Faculte de Genie, Lebanon), Rola Naja (Arab University, Lebanon), Georges Salloum (Lebanese University, Faculty of Engineering, Lebanon)

Ternary Convolutional Code for Ternary and Non-Power of Two Modulations

Alaa Ghaith (Faculty of Sciences I, Lebanese University, Lebanon)

FPGA Implementation of Serial Communication Interface of Multichannel High Speed ADCs

Ali Ibrahim (University of Genova, Italy); Maurizio Valle (University of Genova, Italy); Hussein Chible (Lebanese University, Lebanon)

Comparison Between Flat Plate Collector and Evacuated Tube Collector

Ayman Kassem (Holy Spirit University of Kaslik, Lebanon)

Harvesting Electrical Energy From Acoustic Signals and Mechanical Vibrations

Ahmad Haddad (Lebanese International University, Lebanon); Bassem Fahs (Lebanese International University (LIU), France); Mohammad Alkalash (Lebanese International University, Lebanon); Mohammad Moslimani (LIU, Lebanon)

Lebanese License Plate Recognition for Driving Tickets Automation System

Michel J Owayjan (American University of Science & Technology, Lebanon); Jimmy Abboud (American University of Science & Technology, Lebanon); Boutros Costantine (American University of Science & Technology, Lebanon); Jean Saliba (American University of Science & Technology, Lebanon); Elie Abdo (American University of Science & Technology, Lebanon)

Développement Et Implantation D'un Modèle De Diode Par VHDL-AMS. Discrétisation Selon La Méthode Scharfetter-Gummel

Joseph Kesserwani (Lebanese University & INSA Lyon, Lebanon)

Programmable Photovoltaic Array with Efficient Fault Detection and Monitoring System

Ahmad Haddad (Lebanese International University, Lebanon); Hasan Shoughri (Lebanese International University, Lebanon); Mahmoud Tohme (LIU, Lebanon)

Improved Virtual Research Environment Using a Massive Open Online Research (MOOR) Platform

Michel Georges Chammas (University of Balamand & MA3BAR, IOHANES-DHC, Lebanon); Elie Dannaoui (University of Balamand, Lebanon); Antoine Melki (University of Balamand, Lebanon)

Relaying Techniques for 4G/LTE

Asmaa Abdallah (Rafik Hariri University, Lebanon); Dina Serhal (Rafik Hariri University, Lebanon); Khalil Fakih (Lebanese University, Lebanon)

Volumetric MSRR Metamaterial Structure for Antenna Applications

Hussam Ayad (Grenoble, France); Ali Khalil (Lebanese University, France); M. Fadlallah (Lebanese University, Lebanon); J. Jomaah (Lebanese University, Lebanon)

An Improved Matlab/Simulink Model of Photovoltaic Cell

Raghda El Hariri (Rafik Hariri University, Lebanon); Bassam Moslem (Rafik Hariri University & RHU, Lebanon); Rida Nwayhid (Rafik Hariri University, Lebanon)

Dynamic PET Image Segmentation Using Spectral Clustering Method (Jan 2014)

Hiba Zbib (Université Libanaise, Lebanon); Clovis Tauber (UMRS INSERM U930 Université François Rabelais, France); Sandrine Mouysset (INPT-Enseeiht-IRIT, France); Simon Stute (CEA, Service Hospitalier Frédéric Joliot, France); Jean-Marc Girault (Université François Rabelais - Tours, France); Jamal Charara (Lebanese University, Lebanon); Sylvie Chalon (UMRS INSERM U930 CNRS ERL3106 Université François Rabelais, France); Laurent Galineau (UMRS INSERM U930 Université François Rabelais, France); Irene Buvat (IMNC, Universites Paris 7 & Paris 11, Orsay, France)

Poster Session 2- Food security, Environment, Agriculture I

Agriculture

Room: EDST Lobby

Chairs: Ali Bassal (Lebanese University, Lebanon), Khalil Helou (Saint Joseph University, Lebanon), Nabil Nemer (Holy Spirit University of Kaslik, Lebanon), Joumana Toufaily (Lebanese University, Lebanon)

Nutritional Profile of Lebanese NAFLD Patients: A Case-Control Study

Nicole Sayegh (University of Saint Joseph, Lebanon); Hassan Younes (Institut Polytechnique Lasalle Beauvais, Lebanon); Sandy AbouMrad (Saint Joseph University, Lebanon); Raymond Sayegh (Saint Joseph University, Lebanon)

Effect of Iron on Micropropagation of Gardenia Jasminoid

Hanaa Al-Salih (Mosul University, Iraq)

Étiquetage Nutritionnel: Détermination Des Acides Gras Dans Des Aliments Complexes à Base De Végétaux

Agathe Balis (Université Saint Esprit de Kaslik, Lebanon); Hanna Chebib (Université Libanaise, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Development of Stepwise Matrix Approach for Testing Genetically Modified Organisms

Narmeen Mallah (American University of Science and Technology, Lebanon); Gretta Abou-Sleymane (American University of Science and Technology -, Lebanon)

Performance of Winter Cover Crops in Coastal Lebanon

Suzy Roupheal (Lebanese Agricultural Research Institute & Lebanese University, Lebanon); Therese Atallah (Lebanese University, Lebanon); Yara Ibrahim (Lebanese University, Lebanon); Lara Abou Chehade (Lebanese University, Lebanon); Mohamad Mtayrek (Lebanese Agricultural Research Institute, Lebanon); Samih El Hajj (Lebanese University, Lebanon)

Development of a Screening Methodology of Microalgae Strains for Biodiesel Production: Application to the Marine Microalgae Nannochloropsis

Aumaya Taleb (Lebanese University, EDST & University of Nantes, France)

Caractéristiques Physico Chimiques d'oxy/hydroxydes De Fer Formés à Partir De Fe(0) Dans Différentes Conditions D'oxygénation Et De Vieillesse Et Étude De Leur Efficacité Dans L'adsorption Des Ions Phosphates

Nathalie Sleiman (Lebanese University, France); Veronique Kazpard (Lebanese University, Lebanon); Véronique Deluchat (University of Limoges, France); Michel Baudu (University of Limoges, France); Zeinab Saad (Lebanese University, Lebanon)

Optimization of a DNA Extraction Protocol From Processed Foods and Screening of the Lebanese Market for Genetically Modified Foods

Rim Obeid (AUST, Lebanon); Narmeen Mallah (American University of Science and Technology, Lebanon); Gretta Abou-Sleymane (American University of Science and Technology -, Lebanon)

Building a Fully Automated Sawdust Briquetting Hydraulic Piston Presser

René Albadawi (MUT, Lebanon)

Effet De La Date De Récolte Sur La Composition Chimique Des Organes Indigènes Au Liban (Origanum Syriacum, Origanum Libanoticum, Origanum Ehrenbergii

Ornella Chidiac (Université Saint- Esprit de Kaslik, Lebanon); Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Factors Affecting the Migration of Iron From Metallic Packaging Into Canned Vegetables

Rosette Ouaini (Lebanese University, Lebanon); Amine Kassouf (Lebanese University / AgroParisTech, Lebanon); Chirelle Jabbour (Lebanese University, Lebanon); Christine Moukarzel (Lebanese University, Lebanon); Hanna Chebib (Université Libanaise, Lebanon)

Optimization of Gluten-Free Kneffebread Formulations and Study of Physico-Chemical and Sensorialeffects of Added Hydrocolloids

Reine Barbar (Holy Spirit University of Kaslik, Lebanon); Antonios Sakr (Holy Spirit University of Kaslik, Lebanon)

Study of Polypropylene-Polylactide / Olive Oil Interaction Using 3D Front Face Fluorescence Coupled with Independent Components Analysis (ICA)

Amine Kassouf (Lebanese University / AgroParisTech, Lebanon); Maria El Rakwe (Lebanese University / AgroParisTech, France); Hanna Chebib (Université Libanaise, Lebanon); Violette Ducruet (INRA, France); Douglas Rutledge (AgroParisTech, France); Jacqueline Maalouly (Lebanese University, Lebanon)

Chemical composition and antimicrobial activity of essential oils of *Thymbra spicata* and *Satureja thymbra* and compararison to their major and minor components

Colette El alam (Holy Spirit University of Kaslik (USEK), Lebanon); Monay Al Hafi (Holy Spirit University, Lebanon); Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Chemical composition and antimicrobial activity of the essential oil of *Ruta chalepensis L.* growing wild in Lebanon

Madona Khoury (USEK and ICSN-CNRS, Lebanon); Didier Stein (CNRS France, Lebanon); Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon)

Poster Session 2- Food security, Environment, Agriculture II

Environment

Room: **EDST Lobby**

Chairs: Hosni Takache (Lebanese University & Faculty of Agricultural Sciences, Lebanon), Ahmad Koubeissi (Lebanese University, Lebanon), Andre ElKhoury (Saint Joseph University, Lebanon), Elsa Sattout (Notre Dame University, Lebanon)

Global Warming Inducing "Tropicalization" of the East Mediterranean, Enhancing Biological Invasion in Lebanese Seawater

Sami Lakkis (Lebanese University, Lebanon)

Identification and Characterization of the Selenium's Source in the Hydrogeological Experimental Site of Poitiers

Joseph Bassil (University of Poitiers & Lebanese University, France); Aude Naveau (University of Poitiers, France); Claude Fontaine (University of Poitiers, France); Grasset Laurent (University of Poitiers, France); Jacques Bodin (University of Poitiers, France); Razack Moumtaz (University of Poitiers, France); Veronique Kazpard (Lebanese University, Lebanon)

Description of New Taxa of Fossil Biting Midges From the Lebanese Amber

Joanna Choufani (Muséum National d'Histoire Naturelle, France); André Nel (Muséum National d'Histoire Naturelle, France); Dany Azar (Lebanese University, Lebanon)

Dynamique Des Stocks De Carbone Dans Les Sols:identification Des Usages Et Des Pratiques Atténuant Les Effets Du Changement Climatique En Région Méditerranéenne

Nathalie Boukhdoud (Aix- Marseille Université, France)

Desalination of Sea Water System by Solar Energy Using Evacuated Tube Collector

Tony Chahoud (Holy Spirit University of Kaslik, Lebanon)

Unravelling "Falaise De Blanche"

Sibelle Maksoud (Université de Bretagne Occidentale, France); Bruno Granier (Université de Bretagne Occidentale, France); Dany Azar (Lebanese University, Lebanon); Raymond Geze (Universite Libanaise, Lebanon)

Evaluation Comparative De L'efficacité De Quelques Désinfectants Sur La Décontamination Des Carcasses De Poulet Inoculées Par Campylobacter Jejuni

Hussein Dib (Lebanese University, Faculty of Agricultural Sciences, Lebanon); Elham Hajj Semaan (Lebanese University, Faculty of Agricultural Sciences, Lebanon); Rachelle Mrad (Lebanese University, Faculty of Agricultural Sciences, Lebanon); Jessica Abboud (Lebanese University, Faculty of Agricultural Sciences, Lebanon); Eliana Kassis (Lebanese University, Faculty of Agricultural Sciences, Lebanon)

Iron Oxide and Ferrites Nanoparticals Obtained by Nanoreplication in Porous Silica of Type SBA-15, Chemical Reactivity and Application in Water Depollution

Nabil Tabaja (Université Libanaise, Lebanon)

Heavy Metals Uptake by Opuntia Ficus-Indica Under Industrial Atmospheric Deposition

Eliane El Hayek (Université Libanaise, Lebanon); Antoine El Semrani (Lebanese University, Lebanon); Bruno Lartiges (Géosciences Environnement Toulouse (GET), Université Paul Sabatier, France); Veronique Kazpard (Lebanese University, Lebanon)

Assessment of Metal Levels in Lebanese Marketed Dietary Supplements

Samira Korfali (Lebanese American University, Lebanon); Tamer Hawi (Lebanese American University, Lebanon); Mohammad Mroueh (Lebanese American University, Lebanon)

Compaction Du Sol En Présence Des Fertilisants Phosphatés: Effets Sur La Migration Des Eléments Traces Métalliques Et La Croissance Des Laitues

Ali Kanso (Université de Lorraine, France); Antoine El Semrani (Lebanese University, Lebanon); Veronique Kazpard (Lebanese University, Lebanon); Ahmad Koubeissi (Lebanese University, Lebanon)

Analyse Des Hydrocarbures Chez Botryococcus Braunii Par GC-FID Et GC-MS

Hosni Takache (Lebanese University & Faculty of Agricultural Sciences, Lebanon); Nancy Chayeb (Université Saint-Esprit de Kaslik, Lebanon)

Culture De Chlorella Vulgaris En Photobioréacteurs De Façades De Bâtiments

Antoinette Kazbar (Université Libanaise, Lebanon); Hosni Takache (Lebanese University & Faculty of Agricultural Sciences, Lebanon)

Simplification of the Enameloid Microstructure of Lebanese Rajiformes: a Functional Approach

Georges Kachacha (Lebanese University & Copenhagen University, Denmark); Gilles Cuny (Curator of Vertebrate Palaeontology, Denmark); Dany Azar (Lebanese University, Lebanon); Pierre Abi Saad (Amateur, Lebanon)

Colonization mechanisms of the anobiid beetle *Ernobius libanensis* for *Cedrus libani* in Tannourine nature reserve in Lebanon

Stephanie Nasrany (USEK, Lebanon); Nabil Nemer (Holy Spirit University of Kaslik, Lebanon); Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon)

Composition and antioxidant activity of essential oil and extracts of Tunisian *Artemisia absinthium*

Marc ElBeyrouthy (Holy Spirit University of Kaslik, Lebanon)

Poster Session 2- Mathematics and Computer Sciences

Math

Room: EDST Lobby

Chairs: Fadi Chakik (Lebanese University, Lebanon), Danielle Azar (Lebanese American University, Lebanon)

Bee Colony Algorithm for Assigning Proctors to Exams

Mohamad Taha (Lebanese American University, Lebanon); Nashat Mansour (Lebanese American University, Lebanon)

Mathematical and Numerical Analysis of a Coupled Anisotropic Chemotaxis-Fluid Model

Georges Chamoun (Lebanese University, Ecole Centrale de Nantes, Lebanon); Mazen Saad (Ecole Centrale de Nantes, France); Raafat Talhouk (Lebanese University, Lebanon)

"M.U.T Genie® V.2" Online Library

Ayman Zaydan (MUT, Lebanon)

On the Improvement of H-index

Seifedine Kadry (American University of the Middle East, Kuwait)

Modélisation Et Simulation De La Cicatrisation Osseuse

Mazen Saad (Ecole Centrale de Nantes, France)

"M.U.T Genie®" Android Application

Aladdin Hamzeh (MUT, Lebanon); Rabih Al-Farkh (MUT, Lebanon); Hatim Abdul Hamid (MUT, Lebanon)

Skin Images Segmentation Using Between Class Variance with Gamma Distribution

Ali El-Zaart (Beirut Arab University, Lebanon); Ali Ghosn (Beirut Arab University, Lebanon)

Hypoexponential Distribution with Different Parameters

Therrar S Kadri (Beirut Arab University, Lebanon); Khaled Smaili (Lebanese University, Lebanon); Seifedine Kadry (American University of the Middle East, Kuwait)

Acceptability Issues of Cloud Computing

Issam Kouatli (Lebanese American University, Lebanon)

New Operator for Edge Detection of Objects in Images

Wafaa Al-Jibory (Beirut Arab University, Iraq); Ali El-Zaart (Beirut Arab University, Lebanon)

Improve the Usability of gaKnn Framework

Thimal Kempitiya (University of Moratuwa, Sri Lanka)

Poster session 2- Mathematics and Computer Sciences

Computer Sciences

Room: EDST Lobby

Chairs: Hala Naja (Lebanese University, Lebanon), Toni Sayah (Université Saint-Joseph, Lebanon), Ahmad Shahin (Lebanese University, Lebanon), Fadi Yamout (Lebanese International University, Lebanon)

How Trendy are the Lebanese Websites

Michella Esber (Tripoli & University of Balamand, Lebanon); Antoine Melki (University of Balamand, Lebanon)

Problème De Tournées Sélectives

Racha El Hajj (Université de Technologique de Compiègne, France); Aziz Moukrim (Université de Technologie de Compiègne & Laboratoire Heudiasyc, France); Mohamed Kobeissi (Lebanese University, Lebanon)

Filtering Techniques for Data Aggregation in Periodic Sensor Networks

Hassan Harb (Lebanese University, Lebanon); Ali Jaber (Lebanese University, Lebanon); Abdallah Makhoul (University of Franche-Comté, France); Rami Tawil (LIU University, Lebanon)

Tailored Minimum Spanning Tree Versus Guided Local Search

Fadi Yamout (Lebanese International University, Lebanon)

A Comparative Study on CMMI Development Tools

Joumana Dargham (Balamand University, Lebanon)

Proposed Search Engine Algorithm Enhancement for Arabic Information Retrieval

Rouba Rebeiz (University of Balamand, Lebanon); Amine Bitar (University of Balamand, Lebanon); Antoine Melki (University of Balamand, Lebanon)

Computational Modeling of Digital Electronic Devices

Alaaeddine Ramadan (MUBS Lebanon, Lebanon)

Unified Sensor Interface for Context-Aware Mobile Applications (SCAMP)

Hassan Sbeyti (Arab Open University & Lebanese University, Lebanon); Fatima Abdallah (Lebanese University, Lebanon)

MoVAL: Towards a Multi-views/Multi-hierarchy Software Architecture

Ahmad Elkheir (Lebanese University, Lebanon); Hala Naja (Lebanese University, Lebanon); Mourad Oussalah (LINA laboratory, university of Nantes, France); Kifah Tout (Lebanese University & Military School, Lebanon)

Poster Session 2- Theoretical and Experimental Chemistry and Physics

Chemistry

Room: EDST Lobby

Chairs: Ziad Herro (Lebanese University, Lebanon), Abbas Hijazi (Lebanese University, Lebanon), Farouk Jaber (Lebanese University, Lebanon)

Comparative Analysis of Three Generic Drugs of Atorvastatin Against Their Innovator Collected From the Lebanese Market

Rola Zaydan (Holy Spirit University Of Kaslik, Lebanon); Clotide W El haddad (University of Holy Spirit Kaslik, Lebanon)

Lebanese Jurassic Versus Cretaceous Amber: Chemical Characterization

Youssef Nohra (Universite Rennes 1 & Geosciences Rennes, France); Vincent Perrichot (Universite Rennes 1, France); Laurent Jeanneau (Universite Rennes 1, France); Raymond Geze (Universite Libanaise, Lebanon); Dany Azar (Lebanese University, Lebanon)

Poly (Allylamine Hydrochloride) Based Nanocapsules for Drug Delivery and Optical Tuning Applications

Mai Mouslmani (American University of Beirut, Lebanon); Digambara Patra (American University of Beirut, Lebanon)

Functionalizaion of Closo-Decahydrodecaborate Anion [B₁₀H₁₀]²⁻ Using Click Chemistry Reagents

Suzan Al Anwar (Université Libanaise, Lebanon); Sami Tlais (Lebanese Internatinal University, Lebanon); Ali I. Safa (Lebanese University, Lebanon); Greg Dudley (Florida State University, USA); Daoud Naoufal (Lebanese University, Lebanon)

Fluorescence Properties of Curcumin in Phospholipid Liposomes: Establishment of Curcumin as Membrane Probe

Digambara Patra (American University of Beirut, Lebanon); Elsy El Khoury (American University of Beirut, Lebanon)

New Synthesis of Chromanones with a Difluorinated Chain Through Versatile Enones

Assaad Nasr El Dine (Lebanese University, Lebanon); Olivier Tasseau (Université de Rennes1, France); Ali Hachem (Lebanese University, Lebanon); René Grée (Université de Rennes1, France)

Nouveaux Complexes Oligomères Cycliques De Salens Chiraux Pour La Catalyse Asymétrique

Hiba Dandachi (Université Libanaise, Lebanon); Mohamed Mellah (Université Paris Sud, France); Nada Jaber (Université Libanaise, Lebanon); Emmanuelle Schulz (Université Paris Sud, France); Ali Hachem (Lebanese University, Lebanon)

Influence of the Preparation Method of Copper-Apatite Systems on Their Catalytic Performances in Toluene Total Oxidation

Dayan Chlala (Lebanese University & University of Lille 1, France); Jean-François Lamonnier (University of Lille 1, France); Jean-Marc Giraudon (Université Lille 1, France); Madona Labaki (Lebanese University, Lebanon)

Effect of Sugar Degradation Products on Furans Stability

Jeanne Andary (AgrosParisTech, Lebanon); Jaqueline Maalouly (Department of Chemistry, Faculty of Science, Lebanese University, Lebanon); Rosette Ouaini (Lebanese University, Lebanon); Hanna Chebib (Université Libanaise, Lebanon); Douglas Rutledge (INRA/AgroParisTech, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Xylose Degradation Products Under Alkaline Conditions

Jeanne Andary (AgrosParisTech, Lebanon); Jaqueline Maalouly (Department of Chemistry, Faculty of Science, Lebanese University, Lebanon); Rosette Ouaini (Lebanese University, Lebanon); Hanna Chebib (Université Libanaise, Lebanon); Douglas Rutledge (INRA/AgroParisTech, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

Hydrogen Generation From the Hydrolysis of Mg-C and Mg-TM (C = Carbon Fibers and Graphite; TM = Ni, Fe, Co and Al)

Abdel Salam Awad (Lebanese University, Lebanon); Michel Nakhli (Lebanese University, Lebanon); Mirvat Zakhour (Lebanese University, Lebanon); Eliane

Asmar (Lebanese University, Lebanon); Toufic Tayeh (Lebanese University, Lebanon); Jean-Louis Bobet (University Bordeaux 1, France)

Prédiction De La Solubilité Et Du Coefficient De Partition Des HAPs Par L'approche COSMO-RS

Walid Harb (Université Saint-Esprit de Kaslik - USEK, Lebanon); Mirella Yaghi (Université Saint-Esprit de Kaslik, Lebanon); Eliane Naser (Université Saint-Esprit de Kaslik, Lebanon); Joseph Saab (Université Saint-Esprit de Kaslik, Lebanon)

Preparation of novel triazine-based nitrogenous bases as building blocks for covalent organic frameworks (COFs)

Mira Diab El-Harakeh (American University of Beirut, Lebanon); Ali Koubeissi (American University of Beirut, Lebanon); Sara Jaafar (American University of Beirut, Lebanon); Kamal Bou Hadir (American University of Beirut, Lebanon)

Novel hydrazide-hydrazones derived from adenine for diabetic nephropathy

Rana Mezher (American University of Beirut, Lebanon); Nour Hassan (American University of Beirut, Lebanon); Ali Koubeissi (American University of Beirut, Lebanon); Assaad Eid (American University of Beirut, Lebanon); Kamal Bou Hadir (American University of Beirut, Lebanon)

Synthesis and characterization of nucleic-based hydrazones as potential antidiabetic drugs

Sara Jaafar (American University of Beirut, Lebanon); Judy Hayek (American University of Beirut, Lebanon); Ali Koubeissi (American University of Beirut, Lebanon); Assaad Eid (American University of Beirut, Lebanon); Kamal Bou Hadir (American University of Beirut, Lebanon)

13:30 - 14:30

LUNCH

Room: University Restaurant

15:00 - 16:00

Closing Session

Room: Main Conference Room