

Wednesday, April 15

**15:00 - 17:30**

**REG DAY 1: Inscription**

Room: USJ Hall CSH

**17:30 - 19:00**

**OPN: Cérémonie d'Ouverture**

Room: Campus des Sciences Humaines, Amphithéâtre Pierre Y. Aboukhater

**19:00 - 19:45**

**CB1: Vin d'Honneur**

Thursday, April 16

**08:00 - 09:00**

**REG DAY2: Inscription**

Room: USJ Hall CSH

**09:00 - 09:45**

**SP1: Séance plénière 1**

Recherche, expérimentation et éthique sont-ils conciliables ?

**Prof. Michel Scheuer s.j, Université Saint-Joseph de Beyrouth (Liban)**

Room: USJ Salle Polyvalente E5

Chair: Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

**09:45 - 10:00**

**CB2: Pause-Café**

**10:00 - 11:30**

**BIO1\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences I**

Room: USJ CSM Amphi B

Chairs: Georges Aaraj (American University of Beirut, Lebanon), Patrice Courvalin (Pasteur, France)

***Differential Regulation of Iron Export Proteins in Breast Cancer Cell Lines***

Rania Darwish (American University of Science and Technology, Lebanon)

***Evaluation of nutritional and environmental conditions for phenol degradation by a Lebanese strain of Candida tropicalis***

Hiba Koubeissi (Beirut Arab University, Lebanon)

***The biting midges: origin, taxonomy, distribution and phylogeny***

Joanna Choufani (Muséum National d'Histoire Naturelle, France)

***Genetic study and characterization of Bacillus thuringiensis strains active against Diptera isolated from Lebanese soils***

Mandy Antoun (Saint Joseph University, Lebanon)

***A model predictive of human immune responses for vaccine design: Human leucocyte-engrafted NOD-SCID-IL2rnull Mouse***

Stephanie Ghosn (Faculty of Public Health, Lebanese University, Lebanon); Soulaima Chamat (Faculty of Medicine, Lebanese University, Lebanon); Eric Prieur (Vac4all, France); Pierre Druilhe (Vac4all, Lebanon); Hasnaa Bouharoun-Tayoun (Faculty of Public Health, Lebanese University, Lebanon)

***A serine protease homolog negatively regulates TEP1 consumption in systemic infections of the malaria vector Anopheles gambiae***

Hassan Yassine (Imperial College London, United Kingdom); Layla Kamareddine (AUB, Lebanon); Soulaima Chamat (Lebanese University, Lebanon); George Christophides (Imperial College London, United Kingdom); Mike Osta (American University of Beirut, Lebanon)

**BIO2\_Phamra: Biological, Medical, Pharmaceutical, Health Sciences II**

Room: USJ CSM C9

Chairs: Lydia Khabbaz (Université Saint Joseph, Lebanon), Amal Omar (Beirut Arab University, Lebanon)

***First multicenter study of carbapenem non susceptible Enterobacteriaceae and Acinetobacter baumannii in Lebanon: analysis of resistance mechanisms and clonality***

Dalal Hammoudi Halat (Saint-Joseph University & Lebanese International University, Lebanon); Carole Ayoub Moubareck (Saint Joseph University, Lebanon); Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

***Quality of Life and Risk Factors of Dyslipidemic Patients in Lebanon: A Cross-sectional Study***

Akram Farhat and Mayssam Bou zeid (Lebanese University, Lebanon); Amal El Hajj, Pascale Salameh and Samar Rachidi (Université Libanaise, Lebanon); Ahmad Yassine (Lebanese University, Lebanon); Wafaa El Bawab (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

***Studies of the methylsulfonylchalcones effect on the induction of apoptosis in prostatic cancers cells. Analysis of involved signaling pathways***

Bassel Ismail and Mona Assaf (Lebanese University, Lebanon)

***Inula viscosa and Inula vulgaris Ameliorates Peripheral Neuropathy in Mice***

Mohammad Assi (Beirut Arab University, Lebanon); Maha Aboul Ela, Karim Raafat and Abdalla El-Lakany (Faculty of Pharmacy Beirut Arab University, Lebanon)

***Could a genotyping test along with clinical factors be used for a better management of acute postoperative pain?***

Aline Hajj (Universite Saint Joseph, Lebanon); Katell Peoc'h (Université Paris Descartes, Lebanon); Jean-Louis Laplanche (Université Paris Descartes, France); Hicham Jabbour, Nicole Naccache, Hicham Abou Zeid and Patricia Yazbeck (Hôtel-Dieu de France Hospital, Lebanon); Lydia Khabbaz (Université Saint Joseph, Lebanon)

***Inhibition of epigenetic regulation as a therapy for pediatric high grade glioma***

Tamara Abou-Antoun (Lebanese American University, Lebanon); Stephen Dombrowski (Cleveland Clinica Foundation, USA)

## **BIO3\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences III**

Room: USJ CSM C3

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Marc Karam (University Of Balamand, Lebanon)

***The Anti-tumor Activities of Parthenolide and ST1926 against Human Herpes Virus8- associated Primary Effusion Lymphoma***

Louna Karam, Iman Halloum and Eva Hmeide (Lebanese University, Lebanon); Rana Abdel-Samad (American University of Beirut, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Robert Slany (University of Erlangen-Nuremberg, Lebanon); Frank Neipel (University of Erlangen, Germany); Nadine Darwiche (American University of Beirut, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon)

***Effet des cellules souches mésenchymateuses adipeuses sur le cancer hépatocellulaire***

Rim Serhal (Université Saint Joseph, Lebanon); George Hilal and Mayssam Moussa (Saint Joseph University, Lebanon); Oula El Atat (USJ, Lebanon); Charbel Khalil (Universite Saint-joseph, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon)

***Comparative study of the antifungal activity of *Olea europaea* L. against some pathogenic strains of *Candida albicans* isolated in Lebanon***

Mohammad Hasan Halawi, Hoda Youssef and Salwa Abdul Rahman (Beirut Arab University, Lebanon)

***New cellular functions of the voltage-gated calcium channel  $\beta$ 4 subunit***

Mohamad Rima (INSERM U836, Grenoble Institute of Neuroscience, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Michel De waard (INSERM U836, Grenoble Institute of Neuroscience, France)

***Functional and splicing defect analysis of 23 ACVRL1 mutations in a cohort of patients affected by Hereditary Hemorrhagic Telangiectasia***

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

***Role of *Atp6ap2*/(pro)renin receptor in neural stem cells self-renewal***

Jeanne d'Arc Al Bacha (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Norman Makdissy (Reviva Regeneratrive Medicine Center, Lebanon)

## **ENG2\_civil: Engineering II**

Room: USJ CSH 206

Chairs: Fadi A. Geara (Université Saint-Joseph & Ecole Supérieure d'Ingénieurs de Beyrouth, Lebanon), Nadim Zakhia (Holy Spirit University of Kaslik, Lebanon)

***Mix Optimization of Structural White Concrete***

Riad Wardany and Hiba Al Nahas (Rafic Hariri University, Lebanon); Ibrahim Saab and Rachelle Al Kaissi (Civil Engineering, Lebanon)

***Effects of Partial Replacement of Cement by Limestone Powder on Concrete***

Hasan Al Majzoub and Riad Wardany (Rafic Hariri University, Lebanon); Wiam Bou Karroum (The University of Melbourne, Australia); Houssam Aouje (The University of Texas at San Antonio, USA)

***Effect of Basalt and Limestone on SCC Properties***

Dima Youness and Ahmad Mechaymech (Rafik Hariri University, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon)

***Optimisation de la modélisation 2D et 3D des bâtiments industriels métalliques***

Fadi A. Geara (Université Saint-Joseph & Ecole Supérieure d'Ingénieurs de Beyrouth, Lebanon); Christelle Geara (Ecole Supérieure d'Ingénieurs de Beyrouth - ESIB, Lebanon)

***Etude expérimentale sur l'influence des fissures sur le séchage des sols argileux***

Diala Tabbal (Dar Al Uloom University, Saudi Arabia); Isam Shahrour (Université Lille1 Sciences et Technologies, France); Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon); Marwan Sadek (LML UMR 8107, Université des Sciences et Technologies de Lille, France); Tomoyoshi Nishimura (Ashikaga Institute of Technology, Japan)

## ENG1\_CCE: Engineering I

Room: USJ CSH 208

Chairs: Elie Otayek (Holy Spirit University Of Kaslik, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***Modeling and Simulation of DC-DC Power Converters in CCM and DCM Using the Switching Functions Approach***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Power Factor Correction in Single-Phase Systems: Principle, Design, Modeling and Control***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Study of the nonlinearity of the varactor used in the tunable impedance adapters in semiconductor technology***

Mouhamad Abou Chahine (Arts Sciences and Technology University in Lebanon, Lebanon)

***Easy and Fast Control of Patient Environment***

Tarek Saade, Rony Jahjah and Roy Abi Zeid Daou (Lebanese German University, Lebanon)

***Green Water Desalination Plant in Lebanon***

Hamza Hussein Slim, Kassem Mogharbel, Ali Hassan and Rabih Rammal (LIU, Lebanon); Ali H Assi (Lebanese International University, Lebanon); Mostafa Gad El Rab (Mechanical Department, Lebanese International University, Lebanon)

***A Comparative Study between a Conventional Two-Level and a Flying Capacitor Four-level VSI for Use in Four-Wire Shunt APF Applications***

Antoine Hanna Nohra (CNAM-Lebanon, Lebanon); Maurice Fadel (Laplace University, France); Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

## FEA1\_env: Food security, Environment, Agriculture I

Room: USJ CSH 305

Chairs: Claude Daou (Lebanese University, Lebanon), Khalil Helou (Saint Joseph University, Lebanon)

***Deterioration of Groundwater in Beirut by Seawater Intrusion***

Mark Saadeh (American University of Technology, Lebanon)

***Ozone Monitoring IN THE AREA OF THE PORT OF TRIPOLI***

Walid Kamali and Salam Messaïkeh (AL-Manar University of Tripoli, Lebanon); Yara EL-Moghrabi (MUT, Lebanon)

***State of environment of Jounieh Bay (North of Beirut) through the analysis of sediment characteristics***

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

***Effectiveness of Epoxy Resin and Latex bonding agents in Concrete Repair***

Rima Kammouni (Rafik Hariri University, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon); Rasha Toghlyby, Bilal Jbara and Ahmad Mechaymech (Rafik Hariri University, Lebanon)

***Evaluation de la qualité des eaux d'irrigation de la rivière Aarka dans la plaine d'Akkar au nord du Liban***

Claude Daou and Rony Nabbout (Lebanese University, Lebanon); Farah Maasarani and Celine Hajjar (Lebanese Agricultural Research Institute, Lebanon)

***Lightweight CMU from Timber Wastes***

Zainab Majzoub, Omar Jbara, Sanaa El Sayed and Rosaline Chemali (Rafik Hariri University, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon); Ahmad Mechaymech (Rafik Hariri University, Lebanon)

## **FEA2\_Agr: Food security, Environment, Agriculture II**

Room: USJ CSH 306

Chairs: Maya Kharrat (Universite Saint Joseph, Lebanon), Nabil Nemer (Holy Spirit University of Kaslik, Lebanon)

***Effect of soil class on grape quality of cv. Cabenet Sauvignon and wine composition in South Bekaa***

Yolla Chamoun, Sara Azar and Tamara Gebara (University of Saint-Joseph, Lebanon)

***Ultrasonographic evaluation of Awassi folliculogenesis and dominant oocyte quality assessment***

Christabelle Al Fahel (Notre Dame University, Lebanon); Joseph Sahakian (Notre Dame University-Louaize, Lebanon); Khaled Houchaimi (Lebanese Agricultural Research Institute, Lebanon); Elham Hajj Semaan (Lebanese University, Lebanon); Pauline Y. Aad (Notre Dame University-Louaize, Lebanon)

***Folliculogenesis and Cyclicity in Baladi Goats***

Joseph Sahakian (Notre Dame University-Louaize, Lebanon); Aya Baalbaki (Universite Saint Joseph, Lebanon); Elham Hajj Semaan (Lebanese University, Lebanon); Maya Kharrat (Universite Saint Joseph, Lebanon); Pauline Y. Aad (Notre Dame University-Louaize, Lebanon)

***Qualitative risk assessment in relation to the microbial quality of fresh produce from farms to market: Water used for fresh produce washing, among others, is a potentially high risk factor***

Dima Faour-Klingbeil (Plymouth University, Lebanon); Ewen Todd (American University of Beirut, Lebanon)

***Première Evaluation de la Diversité des Grenadiers (Punica granatum L.) Cultivés au Liban***

Lamis Chalak (The Lebanese University, Lebanon); Faten Dandachi (Lebanese Agricultural Research Institute, Lebanon); Bariaa Hamadeh (Université Libanaise, Lebanon); Hiyam Youssef (The Lebanese Agricultural Research Institute, Lebanon)

## **SOC1: Social, Economic and Behavioral Sciences I**

Room: USJ CSM Amphi A

Chairs: Christine Babikian (Université Saint Joseph, Lebanon), Amal Habib (CNRS, Lebanon)

***Achebe and Ngugi: Literature of Decolonization***

Lutfi Hamadi (Lebanese International University, Lebanon)

***Le financement des PME au Liban: un outil de relance économique***

Sanaa Hajj (le Cnam Liban, Lebanon); Selim Mekdessi (Lebanese University, Lebanon)

***Understanding the impact of the Web on the Arab Near East Society through the interdisciplinary approach of Web Science***

Sabrina Saad (Universite saint Joseph & UIR-Web Science- CEMAM, Lebanon)

***Which Reforms Do Benefit Lebanon? An Assessment of Paris III***

Rock-Antoine Mehanna and Rayan Haykal (Sagesse University, Lebanon)

***Entrepreneurial Teams: Family or Non-Family?***

Rima M. Bizri (Rafik Hariri University, Lebanon)

## **TR1: Table Ronde 1**

Restructuration de la Recherche Scientifique dans un Etablissement d'Enseignement Supérieur  
**Intervenants: Jean-Pierre Gesson, Fadel Moukallid, Fawaz El Omar, Naim Ouaini, Hervé Sabourin, Dolla Karam Sarkis,**

Room: USJ Salle Polyvalente E5

Chairs: Mouin Hamze (National Council for Scientific Research, Lebanon), Ahmad K Jammal (MEHE - Republic of Lebanon & Directorate General of Higher Education, Lebanon)

## **TECP2\_Chimistry: Theoretical and Experimental Chemistry and Physics I**

Room: USJ Salle Zaarour

Chairs: Madona Boulos (Universite Libanaise, Lebanon), Nicolas Louka (Saint Joseph University, Lebanon), Mirvat Zakhour (Lebanese University, Lebanon)

***Syngas production over Ni-Co/ZSM5 catalysts***

Jane Estephane and Samer A Aouad (University of Balamand, Lebanon)

***Aminocarbene Adducts: Design of a Transfer Agent***

Bassem Bassil (University of Balamand, Lebanon)

***Determination of selected toxic heavy metals levels and their risks, in various types of food stuffs consumed by the Lebanese***

Cherine Saliba (University of Balamand, Deir El-Balamand, North Lebanon, Lebanon); Pierre Obeid (Research Supervisor, Lebanon)

***Synthesis and Applications of Aqueous Soluble Metal and Metal oxide Nanoparticles***

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

***Inhibition of the acidic corrosion of mild steel by Thiobarbituric acid***

Hanan Rahal, Ashraf Moustafa Abdel Gaber and Ghassan Younes (Beirut Arab University, Lebanon)

***KOH/ZSM5 catalysts for biodiesel production from refined sunflower vegetable oil***

Jane Estephane and Samer A Aouad (University of Balamand, Lebanon)

**11:30 - 13:00**

**P1\_BIO1\_medicale: Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences I**

Room: USJ Hall CSH

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Laure Chamy (Université Saint Joseph, Lebanon), Marc Karam (University Of Balamand, Lebanon)

***Etude de l'activité neutralisante anti-Coxsackievirus B de la salive des patients diabétiques de type 1 et des sujets contrôlés au Liban***

Juliano Haddad (Université Libanaise, Lebanon)

***CD3bright  $\gamma\delta$  T cells are early IL-17A-producers during acute pneumococcal infection***

Maya Hassane (Lebanese University, Lebanon)

***Valeurs spirométriques des enfants Djiboutiens scolarisés âgés de 6 à 16 ans: Résultats préliminaires***

Idleh Allaleh (Université de Djibouti, Djibouti)

***Acinetobacter baumannii in Lebanese patients: resistance and pathogenicity***

Elias Dahdouh (Complutense University of Madrid, Lebanon); Micheline Hajjar (University of Balamand, Lebanon); Monica Suarez (Complutense University of Madrid, Spain); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon)

***Carbapenem Resistant Enterobacter cloacae in the wastewater of a Lebanese Hospital***

Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon); Elie Salem, Khalil Kfoury and Roula M. Abdel-Massih (University of Balamand, Lebanon); Ghassan Matar (American University of Beirut, Lebanon)

***Telomerase inhibition decreases Alpha-fetoprotein expression in Hepatocellular Carcinoma cells in vitro and in vivo: Possible involvement of Interleukin-6 induced PI3K/Akt/mTor pathway***

Roula Tahtouh and Anne-Sophie Azzi (Saint Joseph University, Lebanon); Souleima Chammat and Hasna Bou Haroun (Lebanese University, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon); Layal Wardi and George Hilal (Saint Joseph University, Lebanon)

***Inborn Errors of Metabolism Highlights in Oman: Collaborative model***

Issam Khneisser (Faculty of Medicine - Saint Joseph University, Lebanon); Maya Rizkallah (Faculty of Medicine University Saint Joseph, Lebanon); Rita Esber (Faculty of Medicine, Saint Joseph University, Lebanon); Andre Megarbane (Saint Joseph University, Lebanon)

***Superior Mesenteric artery syndrome: clinical, endoscopic and radiological correlations according to a single-center experience***

Giovanni Tomasello (University of Palermo, Italy)

***Usefulness of CT colonography in patients with occlusive colorectal cancer***

Giovanni Tomasello (University of Palermo, Italy)

***Effect of Age and Body mass index on the yield of adipose derived stem cells***

Oula El Atat (Saint Joseph University, Lebanon); Hussein Hashem (Fuad Khoury Hospital, Lebanon); Najib Saliba (Hotel Dieu de France, Lebanon); Ziad Feghali



(Bellevue Medical Center, Lebanon); George Hilal (Saint Joseph University, Lebanon); Bilal Tarabey (Hotel Dieu de France, Lebanon); Rim Serhal (Université Saint Joseph, Lebanon); Mayssam Moussa (Saint Joseph University, Lebanon); Nada Alaaeddine (USJ, Lebanon)

***Evaluation of Benzene Exposure in Gas Station Workers in Beirut, Lebanon***

Bouchra Nakhle (American University of Science & Technology, Lebanon)

***Diabetic cardiomyopathy and treatment with nanoparticles for drug delivery***

Rita Maalouf (Notre Dame University, Louaize, Lebanon)

***Association between Mutations in Beta Globin Gene and Sickle Cell Disease Complications in Palestinian Refugees in Lebanon***

Jamilah Borjac (Beirut Arab University, Lebanon)

***Effet du Plasma Riches en Plaquettes (PRP) sur les Cellules Souches Mésoenchymateuses***

Mayssam Moussa (Saint Joseph University, Lebanon); Ghinwa Zouheiry (Université Saint Joseph, Lebanon); Chadi Fakih (Hopital Mont Liban, Lebanon); George Hilal (Saint Joseph University, Lebanon); Rim Serhal (Université Saint Joseph, Lebanon); Oula El Atat (USJ, Lebanon); Gaby Kreichaty (Hotel Dieu De France, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon)

***The combinatory effect of Bevacizumab and telomerase inhibitors on vascular endothelial growth factor secretion in gastrointestinal cancers***

Nadine Mahfouz (Saint Joseph University, Lebanon); Kassem Bdeiri (Hotel Dieu de France, Lebanon); Roula Tahtouh and Riad Sarkis (Saint Joseph University, Lebanon); Nada Alaaeddine (Université Saint Joseph, Lebanon); George Hilal (Saint Joseph University, Lebanon)

***Molecular analysis in a family with Cockayne syndrome***

Alain Chebly (Saint Joseph University, Lebanon); Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

## **P1\_BIO2\_Pharma: Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences II**

Room: USJ Hall CSH

Chairs: Magda Bou Dagher Kharrat (Université Saint Joseph, Lebanon), Aline Hajj (Université Saint Joseph, Lebanon)

***Cartographie fonctionnelle et stéréotaxique du cortex moteur du chat***

Sandra Kobaiter Maarrawi (Saint Joseph University of Beirut, Lebanon)

***Brain 11C-Diprenorphine PET-scans predict motor cortex stimulation efficacy for the control of refractory neuropathic pain***

Joseph Maarrawi (St Joseph University & Laboratory of Neurosciences, Lebanon)

***The oncogenic lipid kinase SK1 promotes the migration and polarization of macrophages in melanoma tumors***

Marguerite Mrad (Institut National de la Santé et de la Recherche Médicale, Lebanon); Céline Colacios, Claire David, Nicole Therville, Stéphane Carpentier and Thierry Levade (Institut National de la Santé et de la Recherche Médicale, France); Rania Azar and Mona Assaf (Lebanese University, Lebanon); Nathalie Andrieu Abadie (Institut National de la Santé et de la Recherche Médicale, France)

***Effect of Recombinant Human Arginase [HuArgI(Co)-PEG5000]-Induced Arginine depletion on Colon Cancer Cells***

Jamilah Borjac (Beirut Arab University, Lebanon); Mirna Swayden (BAU, Lebanon); Amira Bekdash (LAU, Lebanon); Ralph Abi Habib (Lebanese American University, Lebanon)

***Oxidant Activity of Sumac Fruit Extracts on Human Muscle Stem Cells and Zebrafish Embryos***

Fadia Najjar (Lebanese University, Lebanon); Francine Rizk (Univ Lib, Lebanon); Gilles Carnac (France, France); Sara Jabak, Rita Samia and Mansour Kobtawi (Lebanese University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Aline Hamade (Faculty of Sciences, Lebanon)

***Synthesis of a Novel Library of 2H-Indazole Analogues As Potential Binders of  $\beta$ -Amyloid Plaques***

Abdel Sattar Hussein (Beirut Arab University, Lebanon); Xuefei Huang (Michigan State University, USA); Mohammad H. El-Dakdouki (Beirut Arab University, Lebanon)

***Spectrophotometric determination of Clopidogrel Bisulphate and Rosuvastatin Calcium using Discrete Fourier Transform Convoluted Curve and its Ratio Spectra Derivative***

Marwa Al Jamal (Beirut arab University, Lebanon); Azza Abdel Kader Gazy (Beirut arab University & Faculty of Pharmacy, Lebanon); Mahmoud Abdelhady El Sayed (Beirut arab University, Lebanon)

***Living the PCSK9 adventure: from the identification of a new gene in familial hypercholesterolemia towards a potential new class of anticholesterol drugs***

Marianne Abi Fadel (Université Saint Joseph, Lebanon); Sandy Elbitar (USJ, Lebanon); Petra El Khoury (Universite Saint Joseph, Lebanon); Youmna Ghaleb (USJ, Lebanon); Selim Jambart (HDF, USJ, Lebanon); Jean-Pierre Rabès (Hopital Ambroise Paré, France); Mathilde Varret (INSERM U1148, France); Catherine Boileau (INSERM, France)

***Physico - chemical characterization and In vitro release study of directly compressed metformin tablets using different natural mucilages***

Mohammad Kaddoura (Beirut Arab University, Lebanon)

***Study of Hemomicrocirculatory Bed among Newborns with Congenital Heart Anomalies***

Ruzanna Petrosyan (Beirut Arab University, Lebanon)

## **P1\_BIO3\_Biologique: Poster Session 1- Biological, Medical, Pharmaceutical, Health Sciences III**

Room: USJ Hall CSH

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Marc Karam (University Of Balamand, Lebanon), Lydia Khabbaz (Université Saint Joseph, Lebanon)

***Determination of the replication timing of the human common fragile site FRA11D***

Omar El-Mawas (University Of Balamand, Lebanon)

***Searching for the link between periodontitis and diabetes mellitus: A pilot study in rats***

Charbel Choubaya and Hiba Hajj (Lebanese University, Lebanon); Jean Hanna (Université Libanaise, Lebanon); Racha Karaky, Ziad Salameh and Ramez Chahine (Lebanese University, Lebanon)

***Des traces de détergents dans nos assiettes: une étude pilote***

Roula Ayoub Harb (Lebanese University, Lebanon); Joseph Matta (Université Saint Joseph, Lebanon); Ramez Chahine (Lebanese University, Lebanon)

***THE DIAGNOSIS OF BRUCELLOSIS IN SHEEP AND GOAT SICILIAN FARMS. two years activity***

Gesualdo Vesco (Veterinary Public Health Institute of Sicily, Italy); Vittoria Currò, G Chiarenza, D Vicari, G Caracappa and Sandra Marineo (Veterinary Public Health Institute of Sicily, Italy); Lucia Galuppo (Veterinary Public Health Institute of Sicily, Italy); Maria Flaminia Persichetti and Claudia Di Pasquale (Veterinary Public Health Institute of Sicily, Italy); Rossella Lelli (Veterinary Public Health Institute of Sicily, Italy)

***CRIPTO-1 in Extracellular Vesicles: An Emerging Role in Prostate Cancer Progression***

Ihsan El Sayed (Lebanese University, Lebanon); Stéphane Terry, Pascale Maillé, Virginie Firlej and Damien Destouches (IMRB INSERM U955 team7, France); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Francis Vacherot (Paris-Est University, France); Ahmad Daher (Lebanese University, Lebanon)

***Inhibitory Effect of Ferutinin and its Analogues on Breast Cancer Cell Lines and their Progenitor/Stem cell Population***

Rémi Safi (Lebanese University, Lebanon); Najat Bteich (ER030-EDST, Faculty of Sciences II, Lebanese University, Lebanon); Aline Hamade (Faculty of Sciences, Lebanon); Mona Assaf (Lebanese University, Lebanon); Marwan Sabban (American University of Beirut, Lebanon); Fadia Najjar (Lebanese University, Lebanon)

***Sicily as a model to study the condition of the Mediterranean marine ecosystem***

Maria Flaminia Persichetti, Vittoria Currò, Antonio Piazza and Sandra Marineo (Veterinary Public Health Institute of Sicily, Italy); Silvia Scibetta (Council for Agricultural Research and Economics, Italy); Claudia Di Pasquale, Antonino Gentile and Santo Caracappa (Veterinary Public Health Institute of Sicily, Italy); Antonio Giovino (Council for Agricultural Research and Economics, Italy)

***Rôle des dommages à l'ADN générés par la protéine Tat-VIH dans l'oncogénèse du lymphome de Burkitt***

Rawan El Amine (Lebanese University, Lebanon); Diego Germini (UMR8126, Université Paris-Sud, CNRS, Villejuif, Lebanon); Tatyana Tsfasman (UMR8126, Université Paris-Sud, CNRS, Villejuif, France); Aline Hamade (Faculty of Sciences, Lebanon); Fadia Najjar (Lebanese University, Lebanon); Yegor Vassetzky (UMR8126, Université Paris-Sud, CNRS, Villejuif, Lebanon)

***Antioxydant and anti-inflammatory effects of Solanum melongena extracts***

Eva Hmeide (Lebanese University, Lebanon); Ghewa Antoine El-Achkar (American University of Beirut, Lebanon); Aline Hamade (Faculty of Sciences, Lebanon); Aida Habib (American University of Beirut, Lebanon); Fadia Najjar and Ramez Chahine (Lebanese University, Lebanon)

***La drosophile, un modèle d'étude des voies de signalisation contrôlant l'immunité innée et l'inflammation***

Dana Barakat (Université Saint-Joseph, Lebanon)

***THE COMBINATION OF MONOMERIC AND PENTAMERIC ISOFORMS OF CRP DECREASES THE PRODUCTION OF TNF- $\alpha$  AND IL-6 BY U937- DERIVED MACROPHAGES IN THE PRESENCE OF OXLDL***

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

***Etudes des interactions hôtes-pathogènes sur le modèle *Drosophila melanogaster*- *Bacillus cereus****

Zaynoun Attieh (Faculty of Sciences, Université Saint Joseph, Mkalles, Liban, Lebanon)

***Effects of sub-lethal High Intensity Focused Ultrasound (HIFU) exposure on mechanotransduction and cytotoxic response to anti-neoplastic agents in MCF-10A and MDA-MB-231 cells***

Ingrid Younes, Lori Malkhassian, Hind Zahr, Mohamad Mahdi Sleiman, Hussein Daoud and Moath Al Qraini (American University of Beirut, Lebanon); Ghanem Oweis (American University of Beirut, Jordan); Diana E Jaalouk (American University of Beirut, Lebanon)

***Microbial Transformation of Medrysone and the Biological Activity of its Metabolites***

Marie-Anne Boujaoude and Roula M. Abdel-Massih (University of Balamand, Lebanon); Dina Farran and Elias Baydoun (American University of Beirut, Lebanon)

***Antitumor and antioxidant effects of *Salvia multicaulis*, *Prangos asperula*, *Stachelina lobelii* and *Stachys ehrenbergii* on human pulmonary adenocarcinoma cells***

Alain Abi-Rizk, Roula Mezher and Marc El Beyrouthy (Holy Spirit University of Kaslik, Lebanon); Georges Nemer (American University of Beirut, Lebanon)

***Is There an Inter-individual Genetic Variability in the Expression Frequency of Common Fragile Sites among Healthy Persons and Leukemia Patients?***

Baraah Al Ahmad Nachar (University of Balamand, Lebanon); Eliane El Achkar (University Of Balamand, Lebanon)

***Ecogeographic study and preliminary molecular characterization of the genus *Matricaria L.* in Lebanon to guide in-situ and ex-situ conservation efforts***

Noura Soubra and Rabih Talhouk (American University of Beirut, Lebanon); Mariana Yazbek (International Center for Agricultural Research in Dry Areas (ICARDA), Lebanon); Nisrine Karam (Lebanese University, Lebanon)

***IRS-1, PI3K, AKT and GLUT2 Expression in Diabetic Rats Treated with Insulin, Exendin-4 or Selenium***

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

***Radiotherapy Induces Injury and Retards Proliferation in Normal Mammary Epithelial Cells within and on the Edge of the Treatment Field***

Rana Nahhas (American University of Beirut (AUB), Lebanon); Racile Nabha, Sabreen Fostok, Rabih Talhouk and Phillip Taddei (American University of Beirut, Lebanon)

***Effects of atrial natriuretic peptide on rat ventricular fibroblasts during differentiation into myofibroblasts***

Majed Moubarak (LRPP Faculté de Médecine-USJ, Lebanon); Christophe Magaud (ERL CNRS 7368, Université de Poitiers, France); Youakim Saliba (LRPP Faculté de Médecine-USJ, Lebanon); Aurélien Chatelier, Patrick Bois and Jean-François Faivre (ERL CNRS 7368, Université de Poitiers, France); Nassim Fares (University of Saint Joseph, Lebanon)

***Evidence of a Role for Fibroblast Transient Receptor Potential Canonical 3 Ca<sup>2+</sup> Channel in Renal Fibrosis***

Youakim Saliba (LRPP Faculté de Médecine-USJ, Lebanon); Ralph Karam and Viviane Smayra (Faculté de Médecine-USJ, Lebanon); Georges Aftimos (Institut National de Pathologie, Lebanon); Joel Abramowitz (Laboratory of Neurobiology, National Institute of Environmental Health Sciences, USA); Lutz Birnbaumer (Laboratory of Neurobiology, National Institute of Environmental Health Sciences, Lebanon); Nassim Fares (LRPP Faculté de Médecine-USJ, Lebanon)

**P1\_eng1\_CCE\_INF: Poster Session 1- Engineering I**

Room: USJ Hall CSH

Chairs: Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon), Nadim Zakhia (Holy Spirit University of Kaslik, Lebanon)

***The Efficacy of Sterile Lead-Free Drapes in Attenuating Interventional Radiologist's Radiation Exposure Dose***

Sahera Saleh (Rafik Hariri University, Lebanon); Mohamad O. Diab (Rafik Hariri University & College of Engineering, Lebanon)

***Modeling and Characterization of Ionic Polymer Metal Composite (IPMC) Artificial Muscle***

Reem Brome (Rafik Hariri University, Lebanon); Mohamad O. Diab (Rafik Hariri University & College of Engineering, Lebanon); Nizar Awar (RHU, Lebanon); Mirna Atieh (Lebanese University, Lebanon)

***Evaluating Fetal Heart Rate Variability by Using FECG Recording - A Direct Technique***

Ali Mohydeen (Lebanese University, Lebanon); Bassam Moslem (Rafik Hariri University & RHU, Lebanon); Oussama Bazzi (Lebanese University, Lebanon)

***EEGNET: A Novel Tool for Processing and Mapping EEG Functional Networks***

Mohamad Shamas (Université de Rennes 1, France); Mahmoud Hassan (Université de Rennes1, France); Wassim El Falou (Lebanese University, Lebanon); Fabrice Wendling (INSERM, France); Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon)

***Pill Dispenser***

Elie Samaha (Holy Spirit University, Lebanon); Sandy Rihana (Holy Spirit University of Kaslik, Lebanon)

***Système de modélisation de la répartition de la pression des pieds au fond des chaussures des coureurs de haut niveau***

Elie Khoury, Kabalan Chaccour and Rony Darazi (Antonine University, Lebanon)

***Connectivity Graph: A New Method for the Classification of Labor-Pregnancy EHG***

Noujoud Nader (Lebanese University & Azm Center, Lebanon); Mahmoud Hassan (Université de Rennes1, France); Wassim El Falou (Lebanese University, Lebanon); Catherine Marque (Université de Technologie de Compiègne, France); Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon)

***The Effect of Feet Position on the Human Stability during Static Postures***

Khaled Safi (Center AZM, EDST Lebanese University & LISSI Laboratory Paris-Est University, Lebanon); Inke Marie Albertsen and Emilie Hutin (CHU Henri Mondor, France); Eric Delechelle (Université Paris Est Créteil, France); Samer Mohammed

(University of Paris-Est Creteil Val de Marne, France); Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon); Yacine Amirat (LISSI Laboratory, France); Jean-Michel Gracies (CHU Henri Mondor, France)

***Boost Pre-Regulators for Power Factor Correction in Single-Phase Rectifiers***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Current Accuracy Study of Mixed Mode Signal Interface Circuit for Resistive Gas Sensors***

Zeinab Hijazi (University of Genova Italy & Lebanese University, Italy); Maurizio Valle (University of Genova, Italy); Daniele Caviglia (University of Genova, Italy); Hussein Chible (Lebanese University, Lebanon)

***A High Accuracy FPGA Implementation of Fixed Point Square Root for Singular Value Decomposition Computation***

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

***Wireless Power Transfer Using Resonant Coupling: A simulation study***

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

***Study of the electric network stability using the network decomposition into sub-networks***

Nivine Abou Daher (Lebanese University & Saint Joseph University, Lebanon); Imad Mougharbel (Lebanese University, Lebanon); Maarouf Saad (École de technologie supérieure, Canada); Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Circuit Design & Simulation Results For Redundancy CRZ A/D Converter***

Ali Elrachini and Hussein Chible (Lebanese University, Lebanon)

***Remote Sensor Control using Android Application***

Roger Achkar, Gaby H Abou Haidar, Ramzy Abou Dayya, Kahtan Daoud and Asslan Salloum (American University of Science and Technology, Lebanon)

***Current-Injection Three-Phase Rectifiers with High Power Quality***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

## **P1\_eng2\_Mec\_Civil: Poster Session 1- Engineering II**

Room: USJ Hall CSH

Chairs: Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon), Hadi Y. Kanaan (Saint-Joseph University, Lebanon), Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon), Nadim Zakhia (Holy Spirit University of Kaslik, Lebanon)

***Polypropylene Fiber Reinforced Concrete***

Mirvat Atef Abdallah, Zahra Dabet and Raeda Husein (Rafik Hariri University, Lebanon); Rafik Fawaz (Rafik Hariri University, Lebanon)

***Lightweight Mortar Boards and Their Mechanical Properties***

Dima Youness (Rafik Hariri University, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon)

***Using parabolic trough for water heating***

Mohamad Ramadan (Lebanes International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon)

***On the recovery of HVAC systems waste heat***

Mohamad Ramadan (Lebanes International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon)

***Simulation of a Tri-generation System based on a Solid Oxide Fuel Cell for Residential Applications***

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

***Experimental Study of Heat Exchanger Thermal Performance - Effect of Non-Uniformity***

Mahmoud Khaled, Ali Ali, Hussein Shams Eldine and Khaled A. Chahine (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanes International University, Lebanon)

***Flowmeter for gas flow rate measurement at high temperatures***

Mahmoud Khaled, Zahra Wehbi, Mostafa Mortada and Khaled A. Chahine (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanes International University, Lebanon)

***Mobile Application for a Chess Playing Robot***

Michel J Owayjan, Elie Abdo, Jad Ballout, Rabih Hassoun and Mark Bou Malhab (American University of Science & Technology, Lebanon)

***Towards Net Zero Energy Homes in the Lebanese context***

Farouk Fardoun (Lebanese University, Lebanon); Pascal-Henry Biwole (University of Nice-Sophia Antipolis, France)

***Heating/Cooling fresh air from hot/cold exhaust air of HVAC systems***

Mahmoud Khaled, Ali Khraibani, Ali Najdi, Amjad Makke and Mostafa Gad El Rab (Lebanese International University, Lebanon); Mohamad Ramadan (Lebanes International University, Lebanon)

**P1\_FEA2\_agr: Poster Session 1- Food security, Environment, Agriculture**

Room: USJ Hall CSH

Chairs: Maher Abboud (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon), Charbel Afif (Saint Joseph University, Lebanon), Claude Daou (Lebanese University, Lebanon), Wehbeh Farah (Faculty of Sciences- USJ, Lebanon), Khalil Helou (Saint Joseph University, Lebanon)

***The Effect of Greenhouse Gases on Earth's Temperature***

Nour Chehayeb (Modern University for Business and Science, Lebanon)

***Developing a Duplex p35S and T-nos Conventional PCR Method for Testing Genetically Modified Organisms***

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

***GMOs Screening of Babies' Foods in the Lebanese Market***

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

***A comparative study of the bioconversion kinetic profiles of p-coumaric acid into 4-ethylphenol by strains of Brettanomyces bruxellensis isolated from Lebanon and France***

Joyce Kheir (Ecole Supérieure d'Ingénieurs de Beyrouth, Université Saint-Joseph, Lebanon); Dominique Salameh (Faculté des Sciences, Université Saint-Joseph, Lebanon); Pierre Strehaiano and Cedric Brandam (Laboratoire de Génie Chimique, INP-ENSIACET, Université de Toulouse, France); Roger Lteif (Faculté des Sciences, Université Saint-Joseph, Lebanon)

***Contribution à l'analyse des produits alimentaires; Recherche et évaluation de l'effet hémolytique des pesticides utilisés au Liban; Introduction des biopesticides comme alternative***

Josephine Al alam (Lebanese university & Strasbourg University, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Asma Chibani (Lebanese University- Health 3, Lebanon); Maurice Millet (Strasbourg University, France)

***Préservation-Texturation des graines germées: Etude de la germination et de la cinétique de séchage à différents stades de germination***

Helga Francis (Unité de Recherche: Technologie et Valorisation Agroalimentaire - Centre d'Analyses et de Recherche , Lebanon); Nader Chedid and Zeina El Rayess (Saint Joseph University (USJ) & Centre d'Analyse et de Recherche (CAR), Lebanon); Richard G. Maroun and Nicolas Louka (Unité de Recherche: Technologie et Valorisation Agroalimentaire - Centre d'Analyses et de Recherche , Lebanon)

***Relationship between body condition, milk production and kids growth in Baladi Goats fed on pastoral system***

Aya Baalbaki (Universite Saint Joseph, Lebanon); Joseph Sahakian (Notre Dame University-Louaize, Lebanon); Boutros Bcherrawe and Elham Hajj Semaan (Lebanese University, Lebanon); Pauline Y. Aad (Notre Dame University-Louaize, Lebanon); Maya Kharrat (Universite Saint Joseph, Lebanon)

***Rapid molecular typing of Chlamydia species***

Gesualdo Vesco (Istituto Zooprofilattico Sperimentale della Sicilia A. Mirri, Italy)

***Contribution à l'étude des maladies virales de cinq vignobles de raisins de cuve au Liban***

Elia Choueiri, Carine Saab, Elvis Gerges, Farah Baroudy, Wassim Habib, Fouad Jreijiri and Samer Wakim (Lebanese Agricultural Research Institute, Lebanon)

***Essai de différents programmes de traitement contre l'oïdium de la vigne sur la variété Tfeifihi***

Elia Choueiri (Lebanese Agricultural Research Institute, Lebanon); Christopher Bsaibes (ESIAM, Lebanon); Wassim Habib (Lebanese Agricultural Research Institute, Lebanon); Adib Saad (American University of Beirut, Lebanon); L. Hanna (AUB, Lebanon)

***Première Evaluation de la Diversité Génétique de Variétés Traditionnelles de Raisin de Table***

Lamis Chalakh (The Lebanese University, Lebanon); Samar Khalil (USEK, Lebanon); Ahmad Elbitar and Ali Chehade (The Lebanese Agricultural Research Institute, Lebanon)



**Primary Evaluation of Agronomic Performance of Malting Barley in Bekaa Province**

Lamis Chalak (The Lebanese University, Lebanon); Samih El Hajj (Lebanese University, Lebanon); Bariaa Hamadeh (Université Libanaise, Lebanon); Joelle Breidy and Rabih Kabalan (The Lebanese Agricultural Research Institute, Lebanon); Haytham Hmedeh (The Lebanese University, Faculty of Agriculture, Lebanon); Lamya El Tawm (Ministry of Agriculture, Lebanon); Gabriel Gebrayel (The Lebanese University, Faculty of Agriculture, Lebanon); Hussein Dib (Lebanese University, Faculty of Agricultural Sciences, Lebanon); Hassan Machlab (ICARDA, Lebanon)

**First Assessment of Lebanese Barley Landraces in Bekaa Province**

Lamis Chalak (The Lebanese University, Lebanon); Wissam Rizk and Haytham Hmedeh (The Lebanese University, Faculty of Agriculture, Lebanon); Rabih Kabalan and Joelle Breidy (The Lebanese Agricultural Research Institute, Lebanon); Lamya El Tawm (Ministry of Agriculture, Lebanon); Bariaa Hamadeh (Université Libanaise, Lebanon); Therese Atallah (Lebanese University, Lebanon); Hassan Machlab (ICARDA, Lebanon); Samih El Hajj (Lebanese University, Lebanon); Rim Mzid (Centre de Biotechnologie de Borj-Cedria, Tunisia)

**Physicochemical, microbiological and sensory properties of concentrated yogurt (Labneh) made of goats' milk, cows' milk and their mixture-Impact on Lebanese consumers' acceptance**

Mireille Serhan (University of Balamand, Lebanon); Jessy Mattar (Universite de Compiègne, France)

**Efficacy of local strains of entomophagous *Beauveria bassiana*, and *Steinernema feltiae* on the pronymphs and eonymphs of *Cephalcia tannourinensis* Chevin under laboratory conditions**

Charbel Khoury (Holy Spirit University of Kaslik, Lebanon); 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)

**Insecticidal Efficacy of *Juniperus excelsa* M. Bieb. and *Juniperus oxycedrus* L. Oils and Leaf extracts Against the White Fly *Bemisia tabaci* Genn. (Hemiptera: Aleyrodidae)**

Rouba Raad, Nelly Arnold and Nabil Nemer (Holy Spirit University of Kaslik, Lebanon)

**Presence of entomopathogenic nematodes along the coastal area in Lebanon**

Elise Noujeim (National Council for Scientific Research in Lebanon, Lebanon); Joe Sakr (Center for Marine Sciences, National Council for Scientific Research -CNRS, Lebanon); Elena Fanelli and Alberto Toccoli (Istituto per la Protezione Sostenibile delle Piante-CNR, Italy); Sylvie Pagès (Laboratoire DGIMI INRA-UM2 UMR1333 Université Montpellier 2, France); Eustachio Tarasco (Dipartimento di Scienze del Suolo, della Pianta e degli Alimenti, Lebanon); Francesca De Luca (Istituto per la Protezione Sostenibile delle Piante-CNR, Italy)

**Levée de dormance du *Gardenia thunbergia* par l'effet de stratification et l'effet de deux types de chélate de Fer sur le taux de chlorophylle a et b dans les nouvelles pousses de *Gardenia jasminoides***

Marc El Beyrouthy (Holy Spirit University of Kaslik, Lebanon); Mounir Attiyeh (USEK, Lebanon)

**Hydroponics applied to cucumber culture in Lebanon**

Marc El Beyrouthy (Holy Spirit University of Kaslik, Lebanon); Jad Gharios (USEK, Lebanon)

***Mapping Evapotranspiration to Administer Water Use in Bekaa Valley - Lebanon***

Mohamad Mostafa Awad (National Council for Scientific Research, Lebanon); Talal Darwish (CNRS, Lebanon); Rawad Habchi (Lebanese University, Lebanon)

***Use of geospatial information for sustainable local governance in Lebanon***

Talal Darwish, Ghaleb Faour and Mouin Hamze (National Council for Scientific Research, Lebanon)

***Migration of tin from tinsplate into canned food***

Mona Francis (Lebanese University, Lebanon); Amine Kassouf (Lebanese University / AgroParisTech, Lebanon); Hanna Chebib (Université Libanaise, Lebanon); Rosette Ouaini (Lebanese University, Lebanon)

***Determination of Phtalates in Lebanese Bread and its Plastic Packaging by HPLC-UV method***

Sara Noureddine EIMoussawi (ER 004 Lebanese Food Packaging, Faculty of Sciences II, Lebanese University, Lebanon)

***Evaluation of food safety knowledge and practices among usek staff***

Agathe Balis (Université Saint Esprit de Kaslik, Lebanon); Lara Hanna Wakim (Holy Spirit University of Kaslik, Lebanon); Chantal Mikhael (USEK, Lebanon)

***Biodiversité des Aspergillus de la section Flavi dans les épices commercialisées au Liban***

Joya Makhlof (EDST, France); Olivier Puel, Isabelle Oswald and Jean-Denis Bailly (INRA, France); Monzer Hamze (Lebanese University, Lebanon)

## **P1\_MATH: Poster Session 1- Mathématiques et Informatique**

Room: **USJ Hall CSH**

Chairs: Dany Mezher (Saint Joseph University, Lebanon), Toni Sayah (Université Saint-Joseph, Lebanon)

***The Integration of Web Services in Workflows for Big Data***

Sara Nasr (Arts Science And Technology University Of Lebanon, Lebanon); Bilal Said (Arts, Sciences and Technology University in Lebanon (AUL), Lebanon); Ali Hamie (Arts Sciences & Technology University in Lebanon (AUL), Lebanon)

***NFC Authentication via Social Media***

Saeed Raheel and Farid Nakhle (American University of Science and Technology, Lebanon)

***MovieShop***

Bilal Mahmoud and Georges Badr (Université Antonine, Lebanon)

***Generating Topics with Improved Precision Using Information Extraction***

Mireille Makary (Lebanese International University, Lebanon)

***A Generalized Operator of Sobel and Prewitt Based on Finite Difference Methods***

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

***A Crank Nicolson Type Scheme for the Dirichlet-to-Neumann semigroup***

Rola Ali Ahmad (Beirut Arab University, Lebanon)

***Speech to Sign Language Recognition System***

Mohiba Hassan, Haitham Maarouf and Alaaeddine Ramadan (MUBS Lebanon, Lebanon)

***Using NoSQL databases for building heterogeneous annotated corpora***

Elie Dannaoui and Michel Georges Chammas (University of Balamand, Digital Humanities Centre, Balamand, Lebanon, Lebanon)

***Enhancement of Transfer Matrix Method Using Scattering Matrices***

Mohammad Haroun (Lebanese University, Lebanon)

***Evaluation of Mobile-based Keystroke Dynamics Systems***

Mostafa Dafer, Ramzi El Khayat and Mohamad El Abed (Rafik Hariri University, Lebanon)

## **P1\_SOC: Poster Session 1- Sociologie, Sciences humaines, Traduction**

Room: USJ Hall CSH

Chairs: Christine Babikian (Université Saint Joseph, Lebanon), Amal Habib (CNRS, Lebanon)

***Traduire ou adapter ? Telle est la question***

Maribelle EL Hokayem (Holy Spirit University of Kaslik USEK, Lebanon)

***Trois Cultures, un Seul Texte***

Maribelle EL Hokayem (Holy Spirit University of Kaslik USEK, Lebanon)

***Gamification in academic libraries: The wave of the future***

Helene Nehmeh Frangieh and Antoine Melki (University of Balamand, Lebanon)

***Adaptation du WiscIv à la culture arabe***

Viviane Touma (USJ, Lebanon)

***Textes Techniques entre Traducteur ou Spécialiste***

Maribelle EL Hokayem (Holy Spirit University of Kaslik USEK, Lebanon)

***The role of values in change management: the case for quality management in technology-supported higher education***

Manale Khalil (Islamic University of Lebanon, Lebanon)

***Effet de la culture du traducteur***

Joelle Rayess (Holy Spirit University of Kaslik USEK, Lebanon)

***La traduction technique et scientifique***

Joelle Rayess (Holy Spirit University of Kaslik USEK, Lebanon)

***Le traducteur- Espace et temps***

Joelle Rayess (Holy Spirit University of Kaslik USEK, Lebanon)

***Comment se fait la fidelite en traduction?***

Dana El Ahmar (Holy Spirit University of Kaslik USEK, Lebanon)

***La professionnalisme dans la traduction***

Dana El Ahmar (Holy Spirit University of Kaslik USEK, Lebanon)

## **P1\_TEC P1\_Physics: Poster Session 1- Theoretical and Experimental Chemistry and Physics I**

Room: USJ Hall CSH

Chairs: Bilal Habib Beydoun (Lebanese University, Lebanon), Nicolas Louka (Saint Joseph University, Lebanon)

***Localized surface plasmon resonance of dimer copper nanoparticles***

Salem Marhaba and Abdallah El Chakik (Beirut Arab University, Lebanon)

***Theoretical Framework for Microporosity in Non-graphitizing Carbon***

Jean Eid, Mohammad Bzeih, Charbel Matta and Jimmy Romanos (Lebanese American University, Lebanon)

***Ion beam analysis and superconductivity investigation of (Cu<sub>0.5</sub>Tl<sub>0.5</sub>)-1223 added with Co<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> nano-Ferrite***

Nermine Al Sayyed (Beirut Arab University, Lebanon)

***Development of a proton therapy treatment plan for small animals***

Lena Mouawad (Lebanese University & University of Strasbourg, Lebanon); Ahmad Osman (Lebanese University, Lebanon); Ziad Francis (Université Saint Joseph, Lebanon); Mohamad Khalil (Lebanese University, Lebanon); Ziad El Bitar (Cnrs France, France)

***Study of the irreversibility line of GdBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> added with nanosized Ferrites ZnFe<sub>2</sub>O<sub>4</sub> and CoFe<sub>2</sub>O<sub>4</sub>***

Hadi Basma (BAU, Lebanon); Salem Marhaba (Beirut Arab University, Lebanon); Mohamad Roumieh (CNRS, Lebanon); Samih Esper (American University of Beirut, Lebanon); Ramadan Awad (Beirut Arab University, Lebanon)

***Dielectric properties of (Bi,Pb)-2223 phase added with nano-ZnO***

Raafat Mawasi and Ramadan Awad (Beirut Arab University, Lebanon); Mohamad Roumieh (CNRS, Lebanon); Mahmoud Korek (Beirut Arab University, Lebanon)

***Effect of Fe<sub>2</sub>O<sub>3</sub> nano-oxide additions on the superconductivity and dielectric properties of Bi<sub>1.8</sub>Pb<sub>0.4</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10+δ</sub> superconducting phase***

Raafat Mawasi and Ramadan Awad (Beirut Arab University, Lebanon); Mohamad Roumieh (CNRS, Lebanon); Mahmoud Korek (Beirut Arab University, Lebanon)

***Refined Adaptive Optics simulation with wide field of view for the ELT***

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

***Characterization of Bacillus thuringiensis parasporal crystals using laser speckle technique***

Rana Nassif (Université Saint Joseph, Lebanon); Christelle Abou Nader (Université Saint Joseph & Université de Bretagne Occidentale, Lebanon); Jihane Rahbany (Faculty of Science, Saint Joseph University, Lebanon); Fabrice Pellen (Université de Bretagne Occidentale, France); Dominique Salameh (Université Saint Joseph, Lebanon); Roger Lteif (Saint Joseph University, Lebanon); Guy Le Brun and Bernard Le Jeune (Université de Bretagne Occidentale, France); Mireille Kallassy Awad (Biotechnology Laboratory, UR TVA, Saint Joseph University, Lebanon); Marie Abboud (Saint Joseph University, Lebanon)

***Radiothérapie et Assurance de Qualité: Gafchromic film EBT3 un outil de contrôle de la dose délivré par un accélérateur linéaire***

Nicolas Farah (Saint-Joseph University & Hotel-Dieu de France Hospital, Lebanon); Ziad Francis (Université Saint Joseph, Lebanon); Marie Abboud (Saint Joseph University, Lebanon)

**13:00 - 14:00**

**LUN 1: Déjeuner**

**14:00 - 15:00**

**TR2: Table Ronde 2**

Les nouveautés dans l'enseignement des sciences anatomiques

**Intervenants: Ameer Raouf, Angelo Leone, Assad Eid, Giovanni Tomasello, Khalil Zakaria, Inaya Hajj Hussein, Rosalyn Jurjus**

Room: USJ CSM Amphi A

Chairs: Francesco Cappello (IEMEST, Italy), Abdo Jurjus (American University Of Beirut, Lebanon)

**SP2: Séance plénière 2**

Imagerie optique des milieux diffusants : applications aux sciences de la vie  
**Prof. Guy Le Brun, Université de Bretagne Occidentale (France)**

Room: USJ Salle Polyvalente E5

Chair: Marie Abboud (Saint Joseph University, Lebanon)

**15:00 - 16:30**

**BIO4\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences IV**

Room: USJ CSM Amphi B

Chairs: Faten El Hage (Holly Spirit University of Kaslik, Lebanon), Mireille Kallassy (Université Saint Joseph, Lebanon)

***Analysis of interactions between genomic loci through Chromosome Conformation Capture (3C)***

Belal El Kaderi (Lebanese International University, Lebanon); Scott Medler and Athar Ansari (Wayne State University, USA)

***Screening and Chemical Identification of Antimicrobial Compounds Produced by Bacteria Isolated from Lebanese Soil Samples***

Richard Youness (University of Balamand, Lebanon); Fouad Dabboussi (Lebanese University, Lebanon); Marc El Beyrouthy (Holy Spirit University of Kaslik, Lebanon); Samer A Aouad (University of Balamand, Lebanon); Esperance Debs (UOB, Lebanon)

***Biological Activities of Intact and Degraded Glucosinolates on Salmonella spp. and HaCaT Cells***

Rita Khoury (University of Balamand, Lebanon); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon); Marc Karam (University Of Balamand, Lebanon); Jihad Atieh (Balamand University, Lebanon)

***Protective Effects of Surfactant Protein D (SP-D) Treatment in 1,3- $\beta$ -glucan-modulated Allergic Inflammation***

Dalia Fakhri, Bartosz Pilecki and Anders Schlosser (Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark); Jens Madsen and Howard Clark (University of Southampton, Southampton, United Kingdom); Søren Hansen (Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark); Niels Marcussen (Odense University Hospital, Odense, Denmark); Rania Jounblat and Soulayma Chamat (Lebanese University, Lebanon); Uffe Holmskov (Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark); G Sorensen (University of Southern Denmark, Denmark)

***Neutralization of TNF- $\alpha$  reduces the hyperalgesic response in Leishmania major-infected mice and down regulates pro-inflammatory cytokines***

Sara Salman (University of Balamand, Lebanon); Marc Karam (University Of Balamand, Lebanon)

***Multi-Copper Ferroxidases (MCF) Expression Characterization in Murine and Human Monocytes and Derived Macrophages***

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

## **BIO5\_Phamra: Biological, Medical, Pharmaceutical, Health Sciences V**

Room: USJ CSM C9

Chairs: Bassam Badran (Lebanese University, Lebanon), Richard G. Maroun (Université Saint Joseph de Beyrouth, Lebanon)

***Smartphone Addiction among University Students in Lebanon***

Jocelyne Boumosleh and Doris Jaalouk (Notre Dame University-Louaize, Lebanon)

***Assessment of Infection Control Standards at the Outpatient Dental Clinics, Beirut Arab University***

Mirna Fawaz (Beirut Arab University, Lebanon); Roula S. Abiad (Faculty of Dentistry, Beirut Arab University, Lebanon); Khaled Abd El Jalil (Beirut Arab University, Lebanon)

***Optimization of a new polymerization approach for the synthesis of water-compatible imprinted nanoparticles***

Mira Daoud Attieh (Université Libanaise, Lebanon)

***Comparison of HIV-1 integrase inhibitors shows that stronger is their binding to the substrate viral DNA, stronger is their anti-AIDS activity***

Farah Ammar (Saint Joseph University, Lebanon); Zeina Hobaika (Université Saint Joseph de Beyrouth, Lebanon); Safwat Abdel-Azeim and Loussinée Zargarian (ENS Cachan, France); Serge Femandjian (Université Paris Descartes, France); Richard G. Maroun (Université Saint Joseph de Beyrouth, Lebanon)

***Gabapentin Modulates Hemodynamics and Atrial Effective Refractory Period in Rats***

Safaa Hammoud (Beirut Arab University, Lebanon); Amal Omar Galal (BAU, Lebanon); Ahmed El-Mallah (Pharos University, Egypt)

***Teaching of Anatomical Sciences at the Faculty of Medicine and Medical Sciences***

Jihad Hawi (University of Balamand & University of Balamand, Lebanon)

## BIO6\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences VI

Room: USJ CSM C3

Chairs: Wissam Faour (Lebanese American University, Lebanon), Andre Megarbane (Saint Joseph University, Lebanon)

***Pathological effects and motor response threshold changes following radiofrequency application of L-5 nerve root: Experimental rat study and potential clinical application***

Joseph Maarrawi (St Joseph University & Laboratory of Neurosciences, Lebanon)

***Reduced high fat appetite after gastric bypass surgery is due to dorsal striatal dopamine signalling***

Mohammed Hankir (University of Leipzig, Germany)

***Regulation of the conversion of white to brown adipocytes by arachidonic acid metabolic pathway***

Rayane Ghandour (Université Nice Sophia Antipolis, France)

***Analyse microbiologique de la viande bovine et de volaille au Liban et recherche des bactéries résistantes aux antibiotiques***

Tarek Itani, Danielle Chaaya, Laura Dagher and Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

***Effect of Using Closed versus Open Suction System on Mechanically Ventilated Patients***

Alaa Murrah (Beirut Arab University, Lebanon)

***Déterminants de l'état nutritionnel des personnes âgées dans le Grand Beyrouth***

Rosy Mitri (Saint Joseph University, Lebanon); Salim Adib (Co-author, Lebanon); Christa Boulos (St Josephs University, Lebanon)

## ENG4\_ENERGIE: Engineering IV

Room: USJ CSH 206

Chairs: Mohamad Khalil (Lebanese University & Doctoral School of Sciences and Technology, Lebanon), Abed Ellatif Samhat (Lebanese University, Lebanon)

***Power generation management of the Lebanese electric sector due to renewable energy integration***

Joseph Al Asmar (Université de Technologie de Belfort-Montbéliard, France); Raed Kouta (UTBM, France)

***Conception of an autonomous residential photovoltaic system in Lebanon***

Antonella Bou Gharios (USEK, Lebanon)

***Towards clean power production using wave energy***

Charbel Bou-Mosleh (Notre Dame University, Lebanon); Pierre Rahme (Lebanese University, Lebanon); Jean Matar and Joseph Youssef (Notre Dame University-Louaize, Lebanon)

***Greening Thermal Power Plants in Lebanon***

Anthony Kattaa, Hanna Trad and Ali H Assi (Lebanese International University, Lebanon); Hayssam EL Hajj (LIU, Lebanon)

***Comparative life cycle assessment of vegetative and traditional gravel asphalted roofs: A Lebanese case study***

Makram El Bachawati and Rima Manneh (University of Balamand, Lebanon); Thomas Dandres (École Polytechnique de Montréal, Canada); Carla Nassab (UNDP, Lebanon); Henri El Zakhem (University of Balamand, Lebanon); Rafik Belarbi (University of La Rochelle, France)

***Power from PV under High-Voltage Transmission Lines in Lebanon***

Abdallah Al Zarif and Monah Al Kadri (Lebanese International University & KVA sal, Lebanon); Ali H Assi (Lebanese International University, Lebanon); Mohamad Arnaout (LIU & Electrical Engineer, Lebanon); Hussein Kassem (Lebanese International University (LIU), Lebanon)

***Modélisation thermique et aéroulique d'un toit incliné. Evaluation du potentiel de récupération de chaleur***

Chantal Maatouk (Saint Joseph University, Lebanon)

## **ENG3\_BIOM: Engineering III**

Room: USJ CSH 208

Chairs: Rony Darazi (Antonine University, Lebanon), Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Gait Ground Reaction Force Analysis - Balancing Parameters***

Rami Alkhatib (RHU, Lebanon)

***Effect of Binaural Beats on Consciousness Levels***

Alaa Seif, Myriam Chamaa, Abdulaziz Alshaheen, Rascha Awada and Ramzi Halabi (Rafik Hariri University, Lebanon); Mohamad O. Diab (Rafik Hariri University & College of Engineering, Lebanon)

***Breast Tumors Segmentation Algorithm***

Antoine Sawma, Elie Younes and Sandy Rihana (Holy Spirit University of Kaslik, Lebanon)

***Body Balance Detector***

Nour AL-Zein (MUT, Lebanon); Walid Kamali (AL-Manar University of Tripoli, Lebanon)

## **FEA3\_ENV: Food security, Environment, Agriculture III**

Room: USJ CSH 305

Chairs: Jocelyne Gerard (Université Saint Joseph, Lebanon), Carla Khater (CNRS, Lebanon)

***An Experimental Study on the use of Pervious Concrete in Parking Garages***

Sanaa El Sayed (Rafik Hariri University, Lebanon); Riad Wardany (Rafic Hariri University, Lebanon); Ahmad El Hajj and Rosaline Chemali (Rafik Hariri University, Lebanon); Lana Haidar and Aline Al Karak (Balamand, Lebanon)

***Study of catch effort production by fishing gears, in the marine waters of Tartous Department***

Adib Saad, Waad Sabour and Ahmad Soliman (Tishreen University, Syria)



***Effets de la pollution atmosphérique sur la santé à Beyrouth: Etude BAPHE***

Marc Henri Karam (University of Saint Joseph- Faculty of Sciences, Lebanon); Wehbeh Farah (Faculty of Sciences- USJ, Lebanon); Myriam Mrad Nakhle (USJ Faculty of Sciences and UPMC UMR S 1136 EPAR, Lebanon); Nelly Ziade Zoghbi (Medical School USJ and HDF, Lebanon); Maher Abboud (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon); Isabella Annesi-Maesano (INSERM UMR S 1136 and UPMC paris 6, France)

***Elaboration et caractérisation de nanoparticules superparamagnétiques de Fe3O4 - Vers des applications environnementales et biomédicales***

Maher Abboud and Georges Germanos (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon); Wehbeh Farah (Faculty of Sciences- USJ, Lebanon); Roland Habchi (Lebanese University, Lebanon); Jean Podlecki (IES, Université Montpellier, Lebanon); Alain Foucaran (IES - Université Montpellier, France); Ralph Nasr (FS -USJ, Lebanon); Sami Youssef (ESIB, Université Saint-Joseph, Lebanon)

***Matériaux hybrides fonctionnels à base de nanoparticules de magnétite et d'alginate de calcium, vers une application en tant que capteurs spécifiques d'ions métalliques***

Georges Germanos (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon); Wehbeh Farah (Faculty of Sciences- USJ, Lebanon); Sami Youssef (ESIB, Université Saint-Joseph, Lebanon); Ralph Nasr (FS -USJ, Lebanon); Stephane Rioual and Benoit Lescop (University of Brest, France); Maher Abboud (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon)

***Conservation de la biodiversité méditerranéenne continentale et réseaux d'aires protégées: au carrefour entre descripteurs écologiques et socio-économiques***

Rita Sawaya (Aix-Marseille Université (IMBE) & CNRS-Lebanon, Center for Remote Sensing, Lebanon); Carla Khater (CNRS, Lebanon); Errol Vela (Université Montpellier II, Lebanon); Thierry Taton (Aix-Marseille Université (IMBE), France)

## **MCS1\_computer: Mathematics and Computer Sciences I**

Room: USJ CSH 306

Chairs: Dany Mezher (Saint Joseph University, Lebanon), Toni Sayah (Université Saint-Joseph, Lebanon)

***A Framework for Managing Services in Virtual Community Context***

Jihad Itani (AUL & UPPA, Lebanon)

***Re-usability of Data Distribution Service for Virtual Reality Environment***

Hassan Haidar (Lab-CRITIC-AUL, Lebanon); Ali Kalakech (Université Libanaise, Lebanon); Ali Hamie (Lab-CRITIC-AUL, Lebanon); Ronan Querrec (Lab-STICC-CERV-ENIB, Lebanon)

***Meta Modelling for Procedural Learning in Virtual Environment***

Joanna Taoum (École Nationale d'Ingénieurs de Brest (ENIB) & Arts, Sciences & Technology University in Lebanon (AUL), France); Ronan Querrec (Lab-STICC-CERV-ENIB, Lebanon)

***Intelligent Embodied Conversational Agents in Virtual Environments***

Bilal Nakhil (École Nationale d'Ingénieurs de Brest (ENIB) & Arts, Sciences & Technology University in Lebanon (AUL), France); Ronan Querrec (Lab-STICC-CERV-ENIB, Lebanon); Elisabetta Bevacqua (Lab-STICC-CERV-ENIB, France); Bilal Said (Arts, Sciences and Technology University in Lebanon (AUL), Lebanon)

***License Plate Character Recognition using a New Data Mining Algorithm***

Salah Al-Shami (Beirut Arab University, Lebanon); Ali El-Zaart (Beirut Arab University, Lebanon); Rached Zantout (Rafik Hariri University, Lebanon); Ahmed Zekri (Beirut Arab University, Lebanon); Khaled Almustafa (Prince Sultan University, Saudi Arabia)

**TECP1\_Lumiere: Science et technologie de la lumière (Année internationale de la lumière- UNESCO)**

Room: USJ Salle Zaarour

Chairs: Marie Abboud (Saint Joseph University, Lebanon), Mahmoud Korek (Beirut Arab University, Lebanon)

***Calculation of relative biological effectiveness of ions for the domain of hadron therapy using numerical methods and the microdosimetry formalism***

Sara Zein and Ziad Francis (Université Saint Joseph, Lebanon); Gérard Montarou (Université Blaise Pascal, France)

***Analysis of the speckle pattern produced by mixtures of polystyrene microspheres: an explanation of light's behavior in turbid media***

Christelle Abou Nader (Université Saint Joseph & Université de Bretagne Occidentale, Lebanon); Rana Nassif (Université Saint Joseph, Lebanon); Fabrice Pellen and Guy Le Brun (Université de Bretagne Occidentale, France); Marie Abboud (Saint Joseph University, Lebanon); Bernard Le Jeune (Université de Bretagne Occidentale, France)

***Determination of motion parameters using speckle patterns analysis techniques***

Rana Nassif (Université Saint Joseph, Lebanon); Christelle Abou Nader (Université Saint Joseph & Université de Bretagne Occidentale, Lebanon); Fabrice Pellen and Guy Le Brun (Université de Bretagne Occidentale, France); Marie Abboud (Saint Joseph University, Lebanon); Bernard Le Jeune (Université de Bretagne Occidentale, France)

***Monte-Carlo modelling for radiation biology and hadrontherapy***

Ziad Francis (Université Saint Joseph, Lebanon); Sebastien Incerti (CENBG, Bordeaux, Lebanon); Ziad El Bitar (Cnrs France, France); Sara Zein (Université Saint Joseph, Lebanon); Gérard Montarou (Université Blaise Pascal, France)

***The Geant4-DNA project: an open source platform for the simulation of ionizing radiation early biological damage on DNA***

Sebastien Incerti (CENBG, Bordeaux, Lebanon); Ziad Francis (Université Saint Joseph, Lebanon); Ziad El Bitar (Cnrs France, France); Sara Zein (Université Saint Joseph, Lebanon); Gérard Montarou (Université Blaise Pascal, France)

**16:30 - 17:00**

**CB3: Pause-Café**

**conf1: Conference: Publishing tools from Nature Publishing group**

Publishing tools from Nature Publishing group  
**Mr. Jon Giuliani-Head of NPG Middle East:**

Room: USJ Salle Zaarour

**17:00 - 18:30**

## **BIO7\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences VII**

Room: USJ CSM Amphi B

Chairs: Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon), Mireille Kallassy (Université Saint Joseph, Lebanon)

### ***Anti-Tumor Efficacy of Arsenic/Interferon in Preclinical Models of Chronic Myeloid Leukemia Resistant to Tyrosine Kinase Inhibitors***

Naghm Rasbieh, Rabab El-Eit, Ahmad Iskandarani, Mark Jabbour, Ahmad Santina and Ghazi Zaatari (American University of Beirut, Lebanon); Francois-Xavier Mahon (Hôpital Pellegrin, CHU de Bordeaux, Lebanon); Huges De Thé (Université Paris Diderot/ Inserm/ CNRS/ AP-HP, Lebanon); Ali Bazarbachi and Rihab Nasr (American University of Beirut, Lebanon)

### ***Evaluation de l'Antibiothérapie et de la Résistance Bactérienne en Service de Soins Intensifs: Application en milieu Hospitalier Libanais***

Souheir Ballout (Faculty of Pharmacy, Lebanese University, Lebanon); Amal El Hajj and Samar Rachidi (Université Libanaise, Lebanon); Batoul Diab (Faculty of Pharmacy, Lebanese University, Lebanon); Hussein Kanaan (Lebanese University, Lebanon); Salam El zein, Wafaa El Bawab and Pascale Salameh (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

### ***Evaluation of Comorbidities and Mortality among Lebanese Diabetic Patients by Two Comorbidity Scores: A Cohort Study***

Batoul Diab (Faculty of Pharmacy, Lebanese University, Lebanon); Samar Rachidi (Université Libanaise, Lebanon); Akram Echtay (RHUU, Lebanon); Amal El Hajj (Université Libanaise, Lebanon); Souheir Ballout (Faculty of Pharmacy, Lebanese University, Lebanon); Wafaa El Bawab and Pascale Salameh (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

### ***Co-morbidity in Lebanese Chronic Obstructive Pulmonary Disease Patients: Evaluation by two Comorbidity Scores***

Lama Shamseddeen and Rana Younes (Faculty of Pharmacy, Lebanese University, Lebanon); Samar Rachidi (Université Libanaise, Lebanon); Akram Echtay (RHUU, Lebanon); Aseel Malas (Faculty of Pharmacy, Lebanese University, Lebanon); Amal El Hajj, Wafaa El Bawab and Pascale Salameh (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

### ***Evaluation of colistin-carbapenems combination in clinical isolates of Acinetobacter baumannii using the checkerboard technique***

Micheline Hajjar (University of Balamand, Lebanon); Elias Dahdouh (Complutense University of Madrid, Lebanon); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon); Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

### ***La place des tests salivaires dans l'élaboration des plans de traitements curatifs et préventifs en dentisterie pédiatrique***

Guitta Abi Nasr, Nada Farhat Mchayleh, Pascale Harb and Joyce Tannous (Saint Joseph University, Lebanon)

## BIO9\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences IX

Room: USJ CSM C3

Chairs: Bassam Badran (Lebanese University, Lebanon), Nassim Fares (University of Saint Joseph, Lebanon)

### ***L'établissement et le développement du microbiote intestinal du nouveau-né prématuré: l'expérience libanaise***

Tarek Itani (Université Saint Joseph, Lebanon); Carole Ayoub Moubareck (Saint Joseph University, Lebanon); Marie-Joe Butel and Irène Mangin (Université Descartes, France); Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

### ***Tracheal suctioning: Utilizing Ambu-bag versus Ventilator?!***

Nesrine Hayek (Beirut Arab University, Lebanon); Eman Zahran (BAU, Lebanon)

### ***Impact of Evidence Based Guidelines of Endo-Tracheal Tube Suctioning on Decreasing Pain among Premature Neonates***

Awatif Elsharlawy (Beirut Arab University & Alexandria University, Lebanon)

### ***Effect of maternal diabetes on fetal programming of vascular remodeling mechanisms in adult rats***

Abdallah Dib, Jennifer Bourreau, Laurent Loufrani and Daniel Henrion (1UMR CNRS 6214 / INSERM U1083, Faculté de Médecine, Angers, France); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Celine Fassot (1UMR CNRS 6214 / INSERM U1083, Faculté de Médecine, Angers, France)

### ***La collaboration interprofessionnelle dans un hôpital universitaire Libanais***

Michèle Kosremelli and Joumana Stéphan Yeretzi (Saint-Joseph University, Lebanon)

### ***Assessment of cardiovascular surgical infection prophylaxis in a Lebanese hospital***

Diana Malaeb and Mary Younes (Lebanese International University, Lebanon)

## ENG6\_CCE: Engineering VI

Room: USJ CSH 206

Chairs: Rony Darazi (Antonine University, Lebanon), Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

### ***Color Image Segmentation for Agriculture Soil Images Based on Self-Organizing Maps and Hierarchical Clustering***

Chantal Hajjar (USJ, Lebanon); Yolla Chamoun (University of Saint-Joseph, Lebanon); Gilles Fleury (CentraleSupélec, France)

### ***A Novel Neural Networks Implementation Algorithm of Logical Circuits***

Ahmad Kobeissi, Rola Kassem and Ali Massoud Haidar (Beirut Arab University, Lebanon)

### ***SemIndex: Semantic-Aware Inverted Index on Textual Data***

Joe Tekli (Lebanese American University (LAU) & UPPA Laboratory, University of Pau & Adour Countries, Lebanon); Richard Chbeir (LIUPPA - Pau University, France); Marc Al Assad (Lebanese American University (LAU), Lebanon); Carlos Raymundo Ibanez (Universidad Peruana de Ciencias Aplicadas, Peru); Agma J. M.

Traina and Caetano Traina-Jr (University of Sao Paulo, Brazil); Kokou Yetongnon (LE2I - Bourgogne University, France)

***Even-Odd Mode Analysis of a Tri-band Branch-Line Coupler Based on Double-Lorentz Transmission Lines***

Jalal Jomaah and Hussam Ayad (Grenoble, France); Majida Fadlallah (Lebanese University, France); Fabien Ndagijimana (University Joseph Fourier & IMEP-LAHC lab, France); Fatima Mazej (Lebanese University, Lebanon)

***Lignes de propagation microruban à ondes lentes sur un substrat double couche***

Heba El-Halabi (Beirut Arab University, Lebanon)

***COMIQUAL: Collaborative Measurement of Internet Quality in Lebanon***

Marc Ibrahim (Saint Joseph University & Saint Joseph University - ESIB, Lebanon); Maroun Chamoun (Saint Joseph University Beirut, Lebanon); Rima Kilany (Saint-Joseph University, France); Nicolas Rouhana (Université Saint-Joseph, Lebanon); Melhem El Helou (Saint Joseph University of Beirut, Lebanon)

## **ENG5\_BIOM: Engineering V**

Room: USJ CSH 208

Chairs: Tilda Akiki (University Holy Spirit Kaslik, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***Implementation of Snoring Relief System Based on Voice Recognition & Non-invasive Nerve Stimulation***

Walid Kamali (AL-Manar University of Tripoli, Lebanon); Walid El Haj (MUT, Lebanon)

***Myoelectrically Controlled Prosthetic Grip with Slip Feedback Mechanism***

Rana Youssef and Wadih Sayyah (Lebanese International University (LIU), Lebanon); Ali Hage-Diab (Lebanese International University, Lebanon)

***Reverse Paternalism in Lebanon: An Engineering Ethics Dilemma***

Sarah Hammoud, Zahraa Chahrour, Ali Hage-Diab and Bassam Hussein (Lebanese International University, Lebanon)

***Management System of Medical Equipment in Hospitals***

Mohammad Rammal (Nabateye & LIU, Lebanon); Ahmad Jaffal (Nabateye, Lebanon); Mohamad Hajj-Hassan (Lebanese International University, Lebanon)

## **FEA4\_AGR: Food security, Environment, Agriculture IV**

Room: USJ CSH 305

Chairs: Yolla Chamoun (University of Saint-Joseph, Lebanon), Lara Hanna Wakim (Holy Spirit University of Kaslik, Lebanon)

***Pathogenicity of Verticillium dahliae isolates from olive in Lebanon***

Wassim Habib (Lebanese Agricultural Research Institute, Lebanon); Chadi Berhal (Lebanese University, Lebanon); Elvis Gerges, Carine Saab, Farah Baroudy and Elia Choueiri (Lebanese Agricultural Research Institute, Lebanon)

***Evaluation préliminaire de la teneur en huile et du profil des acides gras des variétés d'olives cultivées au Liban***

Milad El Riachy (Lebanese Agricultural Research Institute, Lebanon); Rabih Ayoub (L'Université Libanaise, Lebanon); Maria Breidi (Lebanese Agricultural Research Institute, Lebanon); Lamis Chalak (The Lebanese University, Lebanon)

***Forest Mapping- A comparison Between Two Different Hyperspectral Satellite Images***

Mohamad Mostafa Awad (National Council for Scientific Research, Lebanon); Bassem Al-Awar (National Council for Scientific Research, Lebanon)

***Extraction of polyphenols from viticulture and winemaking byproducts***

Hiba N. Rajha (Universite Saint Joseph (usj) Lebanon & Faculte des Sciences, Lebanon); Nadia Boussetta (Université de Technologie de Compiègne, France); Zeina Hobaika (Université Saint Joseph de Beyrouth, Lebanon); Eugene Vorobiev (Université de Technologie de Compiègne, France); Nicolas Louka (Saint Joseph University, Lebanon); Richard G. Maroun (Université Saint Joseph de Beyrouth, Lebanon)

***Safeguarding and Restoring Lebanon's Woodland Resources***

Garo Haroutunian (Ministry of Environment, Lebanon)

***Chemical composition and antimicrobial activity of the essential oil of Juniperus excelsa M. Bieb. growing wild in Lebanon***

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

## **MCS2\_computer: Mathematics and Computer Sciences II**

Room: [USJ CSH 306](#)

Chairs: Rami Haddad (Université Saint Joseph, Lebanon), Raafat Talhouk (Lebanese University, Lebanon)

***Factors to Consider while Choosing a WSN Routing Protocol and Simulating LEACH***

Hiba Bazzi and Ali Massoud Haidar (Beirut Arab University, Lebanon)

***Compiler for beginners***

Michel Tabib and Georges Badr (Université Antonine, Lebanon)

***TIN CAN Client Elgg Plug-In: A Proposed Solution to Integrate Social Media with E-Learning Technology***

Amine Bitar and Antoine Melki (University of Balamand, Lebanon); Michel Georges Chammas (University of Balamand & MA3BAR, IOHANES-DHC, Lebanon)

***Social Networks Privacy Awareness Using Fuzzy Logic***

Gerges Tannous and Aziz M. Barbar (American University of Science and Technology, Lebanon)

***Parallelizing Sobel Edge Detection Algorithm on a Multi-core processor***

Hanadi Atweh and Ahmed Zekri (Beirut Arab University, Lebanon); Lama Hamandi (American University of Beirut, Lebanon)

***Correlation Based Approach for Expertise Profiling and Computing***

Hassan Nouredine (University of Applied Sciences of Western Switzerland & Lebanese University, Switzerland); Iman Jarkss (Lebanese University - EDST,

Lebanon); Omar Abou Khaled and Elena Mugellini (University of Applied Sciences of Western Switzerland, Fribourg, Switzerland)

## EDU 1: Science and Mathematics Education I

Room: USJ CSM Amphi A

Chairs: Fadi El Hage (Universite Saint Joseph (USJ), Lebanon), Iman Khalil (Lebanese University, Lebanon)

### ***L'enseignement des aspects de la nature de la science à l'université***

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)

### ***Health Education at Schools in Lebanon. Critical Analyses of Curriculum, Textbooks, Focus Groups and Classroom Sequences in a Lebanese Public School and a Palestinian School***

Hanin Fuddah (Lebanese University & UNRWA, Lebanon)

### ***TP traditionnel ou avec ExAO: quels effets sur la compréhension du langage graphique en chimie chez des élèves de 1ère année du collège***

Maria Aouad (ESPE AMU, Lebanon)

### ***Mathematical Creativity: The Real Through The Imaginary***

Sahar Khanafer and Amine El Sahili (Lebanese University, Lebanon)

### ***Un référentiel des compétences langagières des enseignants des disciplines scientifiques au primaire***

Wajiha. Smaili, Imane Abou Ali, Samar Tfaili, Hiam Daou and Soheir El Hajj (Lebanese University, Lebanon)

### ***Mathematical Creativity: The Unexpected Links***

Nour Al-Sharif, Amine El Sahili and Sahar Khanafer (Lebanese University, Lebanon)

### ***The relation between the use of Digital Resources and the evolution of Biology Teachers' Conceptions about Genetic Determinism***

Eman Shaaban (Lebanese University, Lebanon)

## TR3: Table Ronde 3

"Oil, Gas and Green Energy in Lebanon: Challenges, Vision and Strategy"

**Intervenants : Jean Chamoun, Mazen Halawi, Pascal Damien, Rabih Khairallah, Walid Nasr, Wissam Chbat**

Room: USJ Salle Polyvalente E5

Chairs: Fadi A. Geara (Université Saint-Joseph & Ecole Supérieure d'Ingénieurs de Beyrouth, Lebanon), Pierre Khoury (LCECP, Lebanon)

Friday, April 17

**08:00 - 09:00**

**REG DAY3: Inscription**

Room: USJ Hall CSH

**09:00 - 09:45**

**SP3: Séance plénière 3**

Evaluation de la recherche : modèle Français

**Prof. Jean-Pierre Gesson, Président du conseil d'orientation de Campus France**

Room: USJ Salle Polyvalente E5

Chair: Michel Scheuer (Université Saint Joseph, Lebanon)

**09:45 - 10:00**

**CB4: Pause-Café**

**10:00 - 11:30**

**BIO10\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences X**

Room: USJ CSM Amphi B

Chairs: Marianne Abi Fadel (Université Saint Joseph, Lebanon), Wissam Faour (Lebanese American University, Lebanon)

***A Multicenter Study for the Assessment of Switch Over from Intravenous to Oral Antibiotics in Lebanese Hospitals***

Diana Malaeb and Zeina Shrayteh (Lebanese International University, Lebanon)

***Vertical bone regeneration with deproteinized bovine bone mineral or biphasic calcium phosphate in the rabbit calvarium: Effect of autologous platelet lysate***

Carole Chakar (University of st Joseph, Lebanon)

***Novel homozygous PTPRD gene microdeletion causes trigonocephaly, hearing loss, and intellectual disability***

Nancy Choucair and Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Pierre Cacciagli (Faculté de Médecine de la Timone, France); Ali Fawaz (Lebanese University, Lebanon); Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

***Ten years' experience using conventional karyotyping at the Medical Genetics Unit of Saint Joseph University***

Alain Chebly (Saint Joseph University, Lebanon); Tony Yammine (Unité de Génétique Médicale, USJ, Lebanon); Gabriel Haddad (Université Saint Joseph,



Lebanon); Rima Korban (unité de Génétique Médicale, USJ, Lebanon); Rima Chedid and Leila Samaras (Université Saint Joseph, Lebanon); Andre Megarbane (Saint Joseph University, Lebanon)

***Malpositioning of the Patient during X-Ray Acquisition Can Affect the Assessment of Sagittal Pelvic Parameters: Evaluation in Adults and Children***

Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon); Ziad Bakouny (Faculté de Médecine, Université Saint-Joseph, Lebanon); Elie Saghbini (Hotel Dieu de France, Lebanon); Nour Khalil and Lydia Chelala (Faculté de Médecine, Université Saint-Joseph, Lebanon); Elias Naoum (Hotel-Dieu de France Hospital, Lebanon); Christophe Sauret and Wafa Skalli (Arts et Métiers ParisTech, France); Ismat Ghanem (Hotel-Dieu de France Hospital, Lebanon)

***A 20 years success story of newborn screening at USJ: 1800 Lebanese benefit from a better quality of life***

Issam Khneisser (Faculty of Medicine - Saint Joseph University, Lebanon); Maya Rizkallah (Faculty of Medicine University Saint Joseph, Lebanon); Rita Esber (Faculty of Medicine, Saint Joseph University, Lebanon); Andre Megarbane (Saint Joseph University, Lebanon)

## **BIO12\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences XII**

Room: USJ CSM C3

Chairs: Lydia Khabbaz (Université Saint Joseph, Lebanon), Amal Omar (Beirut Arab University, Lebanon)

***Validity and Reliability of Hip Parameters with Pelvic Axial Rotation During X-Ray Acquisition***

Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon); Ziad Bakouny (Faculté de Médecine, Université Saint-Joseph, Lebanon); Elie Saghbini (Hotel Dieu de France, Lebanon); Fares Yared, Aren Joe Bizdikian, Sabine Esber, Gerard Elie Bakhos and Nour Khalil (Faculté de Médecine, Université Saint-Joseph, Lebanon); Christophe Sauret and Wafa Skalli (Arts et Métiers ParisTech, France); Ismat Ghanem (Hotel-Dieu de France Hospital, Lebanon)

***Etude de répétabilité de différentes méthodes de mesure des angles rachidiens chez des sujets scoliotiques: techniques manuelle vs. numérique***

Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon); Ismat Ghanem (Hotel-Dieu de France Hospital, Lebanon); Ziad Bakouny, Fares Yared, Aren Joe Bizdikian and Nour Khalil (Faculté de Médecine, Université Saint-Joseph, Lebanon); Gaby Kreichati and Khalil Kharrat (Hotel-Dieu de France Hospital, Lebanon)

***Validity and Reliability of Adult Pelvic 3D Reconstructions Using low dose Biplanar X-Rays***

Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon); Bachir Ghostine (Faculté de Médecine, Université Saint-Joseph, Lebanon); Christophe Sauret (Arts et Métiers ParisTech, France); Ziad Bakouny and Nour Khalil (Faculté de Médecine, Université Saint-Joseph, Lebanon); Wafa Skalli (Arts et Métiers ParisTech, France); Ismat Ghanem (Hotel-Dieu de France Hospital, Lebanon)

***A Better Understanding of Cerebral Palsy Pathology using 3D Subject-Specific Musculoskeletal Modeling***

Abir Massaad (SESOBEL, Lebanon); Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon); Ziad Bakouny and Nour Khalil (Faculté de Médecine, Université Saint-Joseph, Lebanon); Christophe Sauret and Wafa Skalli (Arts et Métiers ParisTech, France); Ismat Ghanem (Hotel-Dieu de France Hospital, Lebanon)

***Nutrition Related Health Behaviors Among University Students in Tripoli-Lebanon***

Germine El Kassas (Beirut Arab University, Lebanon)

***Toxoplasma gondii Type II Strains PRU and its Derived PRU $\Delta$ KU80: Investigation of Differences and Similarities***

Martin Karam (American University of Beirut, Lebanon); Sana El-Sayyed (Lebanese University, Lebanon); Lea Maalouf, Nadim Tawil and Hiba El-Hajj (American University of Beirut, Lebanon)

## **ENG8\_civil: Engineering VIII**

Room: USJ CSH 206

Chairs: Aziz M. Barbar (American University of Science and Technology, Lebanon), Fadi A. Geara (Université Saint-Joseph & Ecole Supérieure d'Ingénieurs de Beyrouth, Lebanon)

***Rheological Characterization of Asphalt Binders in Lebanon***

Nariman Khalil (University of Balamand, Lebanon); Hussain Bahia (University of Wisconsin-Madison, USA); Cristain Clopotel (HoneyWell, Lebanon)

***Influence des propriétés des bâtiments en maçonnerie sur les tassements différentiels admissibles***

Jamil Serhal (Université de Lorraine & Centre de Modélisation, EDST, Université Libanaise, France); Olivier Deck (des Mines de Nancy, Université de Lorraine, France); Marwan Alheib (INERIS - Direction de Risques du Sol et du Sous-Sol, France); Fadi Hage Chehade (Lebanese University - Doctoral School of Science and Technology - Modeling Center - PRASE - Beirut & Lebanese University - University Institute of Technology, Lebanon); Dalia Abdelmassih (Université Libanaise, Faculté de Génie, France)

***Analyse numérique du comportement mécanique, à long terme, des composites renforcés avec des fibres de verre***

Elias Dib (ESIB-USJ & ENPC, Lebanon); Wassim Raphael and Fouad Kaddah (Université Saint Joseph, Lebanon); Jean-François Caron and Ioannis Stephanou (ENPC, France)

***Determination Of The Bearing Improvement Ratio For Clay Soil Improved With Group Of Stone Columns and Lime Columns***

Maki Jafar Mohammed Al-Waily (Foundation of Technical Education, Iraq)

***Modélisation des déformations sismiques des bâtiments au Liban - Étude du mode fondamental de vibration***

Fadi A. Geara (Université Saint-Joseph & Ecole Supérieure d'Ingénieurs de Beyrouth, Lebanon); Christelle Geara (Ecole Supérieure d'Ingénieurs de Beyrouth - ESIB, Lebanon)

***Rejuvenators for Asphalt Binders from Spent Coffee Grounds and Waste Cooking Oil***

Rita Jalkh, Mohamad Abiad and Ghassan Chehab (American University of Beirut, Lebanon)

***Solar Technology Concept Penetration in MENA Region (2010 - 2030)***

Loren Makki (LIU, Lebanon); Marc Anthony Mannah and Mahmoud Kazma (Lebanese International University, Lebanon); Rabih Rammal (LIU, Lebanon)

## **ENG7\_CCE: Engineering VII**

Room: USJ CSH 208

Chairs: Rony Darazi (Antonine University, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***Amélioration de l'efficacité énergétique des machines électriques par action sur la commande***

Gabriel Khoury (Université Saint-Joseph, Lebanon); Ragi Ghosn (Saint Joseph University, Lebanon); Flavia Khatounian (Université Saint Joseph de Beyrouth, Lebanon); Maurice Fadel (Laplace University, France)

***Green Electronics for Cognitive Radio Systems***

Ibrahim Serhan (LIU, Lebanon); Hussein Hijazi (Grenoble-INP, GIPSA-Lab, France); Ali Chamas Al Ghouwayel (Lebanese International University, Lebanon)

***Model Predictive Control for Electrical System Applications***

Jean Sawma (Université Saint-Joseph, Lebanon); Flavia Khatounian (Université Saint Joseph de Beyrouth, Lebanon); Eric Monmasson (Université de Cergy, Lebanon); Ragi Ghosn (Saint Joseph University, Lebanon)

***Calcul du taux de ressemblance entre les images temps fréquence relatives à la corrélation du bruit ambiant: application à la localisation de source***

Karl Hourany (Lebanese University, Lebanon); Farouk Benmeddour and Emmanuel Moulin (Université de Valenciennes et du Hainaut Cambrésis, France); Youssef Zaatar (Lebanese University, Lebanon); Jamal Assaad (IEMN - DOAE - MIMM Team, UVHC, France)

***Smart Metal Detectors for Landmine Detection and Classification***

Mohamad Homsy, Mohamad Amine Soudki, Abdallah Chebaro, Lise Safatly and Mohammed Al-Husseini (American University of Beirut, Lebanon); Mariette Awad (AUB, Qatar); Ali El-Hajj (American University of Beirut, Lebanon); Hassan Ghaziri (Beirut Research and Innovation Center, Lebanon)

***Electric power system simulator***

Houssein Taleb and Rawad AL Masri (LIU, Lebanon); Mohamad Arnaout (LIU & Electrical Engineer, Lebanon); Khaled A. Chahine and Marc Anthony Mannah (Lebanese International University, Lebanon)

## **FEA5\_env: Food security, Environment, Agriculture V**

Room: USJ CSH 305

Chairs: Claude Daou (Lebanese University, Lebanon), Wehbeh Farah (Université Saint Joseph, Lebanon)

***Characterization of UVB -induced damage immediately and 24 hours post exposure using in vitro cytotoxicity assays***

Christian Khalil (Lebanese American University, Lebanon)

***Scale up of the production of a biopesticide based on a Bacillus thuringiensis strain isolated from the Lebanese soil***

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

***Concevoir et planifier l'infrastructure à l'âge du changement climatique: Cas de la gestion de l'eau d'un projet de développement urbain en Arabie Saoudite***

Antoine Hreiche (Université Saint-Joseph & ESIB, Lebanon)

***The Environmental Databases: Challenges and Standards***

Hicham Hajj Hassan (Université Montpellier & National Council for Scientific Research, Lebanon (CNRS-L), Lebanon); Laurent Drapeau (Centre d'Etudes Spatiales de la Biosphère CESBIO, Toulouse, Lebanon); Olivier Lobry (OSU OREME, CNRS, Université Montpellier, France)

***Influence des Chlorophytaes sur les Paramètre de croissance des éléments minéraux ainsi que sur l'accumulation de la chlorophylle et la proline dans les plants de tournesols***

Sandy Majed (Lebanese University, Lebanon); Asma Chibani (Lebanese University-Health 3, Lebanon); Fawaz Omar (Lebanese University, Lebanon)

***Hospital Wastewater Genotoxicity: A comparison study between two Lebanese University hospitals***

Jina Farah and Jean-François Jabbour (University of Balamand, Lebanon); Hiam Sidaoui (CHN Hospital, Lebanon); Roula M. Abdel-Massih (University of Balamand, Lebanon)

## **SOC 2: Social, Economic and Behavioral Sciences II**

Room: USJ CSM Amphi A

Chairs: Joseph Gemmayel (Université Saint Joseph, Lebanon), Christophe Varin (Université Saint Joseph, Lebanon)

***Are Accounting Graduates Prepared For Their Careers? A Comparison Of Employees' And Employers' Perceptions***

Rima Rosa Char Hakim (Rafik Hariri University, Lebanon)

***Toxicomanie et politique sociale au Liban: mesures et pratiques, limites et perspectives***

Houwayda Matta Bou Ramia and May Hazaz (Université Saint-Joseph, Lebanon)

***Agritourism: A Sustainable Alternative for Income Generation and Ecological Preservation to Rural Lebanon***

Mohamed Ragy Darwish (Arts, Sciences and Technology University in Lebanon, Lebanon); Youssef Doughan (Ministry of Environment, Lebanon)

***Leadership éducatif: Une nouvelle répartition du pouvoir et des responsabilités***

Dina Sidani (Université Saint Joseph, Lebanon)

***Mémoires dévoilées pour une nouvelle lecture de notre société***

Liliane Kfoury (University of History, Lebanon)

## TR4: Table Ronde 4

Exigences croissantes sur les autorités nationales concernant la sécurité alimentaire :  
Contrôles et inspections des aliments

**Intervenants: Antonio Khabbaz, Atef Idriss, Bassel Al Khatib, Charles Arbid, Christiano Passini, Dana Bou Raslan, Elie Bou Yazbeck, Ewen Todd, Hiba Dbouk, Khalil Helou, Laura Hjeij, Mona Jamil Aassaf, Mounir Bissat, Youssef Doughan**

Room: USJ Salle Polyvalente E5

Chairs: Lara Hanna Wakim (Holy Spirit University of Kaslik, Lebanon), Toufic Rizk (Université Saint Joseph, Lebanon)

## TECP4\_Chimistry\_Physics: Theoretical and Experimental Chemistry and Physics IV

Room: USJ Salle Zaarour

Chairs: Michel Nakhl (Lebanese University, Lebanon), Joseph Saab (Université Saint-Esprit de Kaslik & Faculty of Sciences, Lebanon)

### ***Studying the Contamination of Fishes by Six Trace Elements (Cd, Cr, Cu, Ni, Pb and Zn) in Lebanon as a Function of the Season Climate and the Type of Species***

Wadih Skaff (Université Saint-Joseph, Lebanon); Natalie Estephan (Holy Spirit University of Kaslik, Lebanon); Valérie Camel (AgroParisTech, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

### ***Etude des conditions expérimentales optimales pour la remédiation des sédiments fortement pollués en ETM(Pb et Cd) de Dora(Liban)***

Carine Abi-ghanem (National Centre for Marine Sciences & CNRSL, Lebanon); Amonda El Houssainy (CNRS, Lebanon); Rima Manneh and Henri El Zakhem (University of Balamand, Lebanon)

### ***Biphasic microfluidic system for octanol-water partition coefficient determination***

Khaled Stephan (Lebanese University, Lebanon); Ilham Mokbel (Université Claude Bernard Lyon1, France); Christelle Goutaudier (Lyon, France); Rosaria Ferrigno (Université Claude Bernard Lyon 1, France); Joseph Saab (Université Saint-Esprit de Kaslik & Faculty of Sciences, Lebanon)

### ***Combinatorial Approaches to Photochemical Reactions***

Rony Khnayzer (Lebanese American University, Lebanon)

### ***Allumage de flammes dans des couches de mélange***

Remi Daou (Université Saint Joseph, Lebanon)

### ***Structural Relation Between Specific Surface Area and Porosity in Carbon Nanostructures***

Mohammad Bzeih, Jean Eid, Charbel Matta and Jimmy Romanos (Lebanese American University, Lebanon)

### ***AIN interlayer preventing the migration of channel electrons in normally-off fluorinated MIS-HEMTs***

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

**11:30 - 13:00**

**P2\_BIO1\_medicale: Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences I**

Room: USJ Hall CSH

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Magda Bou Dagher Kharrat (Université Saint Joseph, Lebanon), Wissam Faour (Lebanese American University, Lebanon), Zeina Hobaika (Université Saint Joseph de Beyrouth, Lebanon)

***Chemical composition, antimicrobial activity and ethnopharmacology of Lebanese oregano***

Monay Al Hafi (Holy Spirit University & Agroparistech, Lebanon); Marc El Beyrouthy and Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Sylvain Chaillou (AgroParisTech, Institut Jean-Pierre Bourgin INRA., France)

***Interactive teaching in Anatomical sciences: a Case Based Approach***

Inaya Hajj Hussein, Mallikarjuna Barremkala, Brent Thompson, William Forbes and Mitual Amin (Oakland University, USA)

***Thymoquinone Combination with Arsenic and Interferon Enhances Cell Death in Adult T-cell Leukemia***

Maamoun Fatfat, Hala Gali Muhtasib and Hiba El-Hajj (American University of Beirut, Lebanon)

***New Actor in Diabetic Nephropathy: Role of VEGF-A***

Assaad Eid and Kawthar Braysh (American University of Beirut, Lebanon)

***Differential Expression of the Multi-Copper Ferroxidase Ceruloplasmin in Invasive Ductal Carcinoma***

Zouhair K Attieh (American University of Science and Technology, Lebanon); Pamela Nabhan (AUST, Lebanon)

***Oral pretreatment with saffron (crocus sativus) afforded cardioprotection against ischemia-reperfusion injury in isolated rabbit heart***

Sharel Salem, Jessy Chidiac and Antoine Daccache (Lebanese University, Lebanon); Nathalie Chahine (Université Libanaise, Lebanon); Hassane Makhlof and Ramez Chahine (Lebanese University, Lebanon)

***Ovarian Cancer Cells are Auxotrophic for Arginine and Sensitive to Human Recombinant Arginase I [HuArgI(Co)-PEG5000]-Induced Arginine Depletion***

Malak Reda, Amira Bekdash and Ralph Abi Habib (Lebanese American University, Lebanon)

***Evolution du génotypage du VHC au Liban***

Danielle Chaaya, Aline Hajj, Tarek Itani, Rita Beyrouthy and Dolla Karam Sarkis (Université Saint Joseph, Lebanon)

***Bone metabolic disorders associated with NAFLD in patients undergoing bariatric surgery***

Viviane Trak-Smayra, Roger Noun, Valerie Aftimos, Cesar Yaghi, Rafic Baddoura, Claude Sader-Ghorra and Marie-Hélène Gannage-Yared (Faculty of Medicine, Saint Joseph University, Lebanon)

***Consequences of a methyl donor deficiency on cerebral development and neurodegenerative diseases: Role of homocysteine***

Racha Kerek (Université de Lorraine - Inserm U954, Lebanon)

***Conditions de vie et état de santé des sujets âgés libanais vivant en milieu rural***

Christa Boulos (St Josephs University, Lebanon); Pascale Salameh (Université Libanaise, Lebanon); Rosy Mitri (Saint Joseph University, Lebanon); Pascale Barberger-Gateau (Université Bordeaux, France)

***La qualité de sommeil chez les adolescents: Une étude pilote à Beyrouth et au Mont Liban***

Michèle Chahoud (Université Libanaise, Lebanon); Farah Rammal (Lebanese University, Lebanon); Rita Farah (Université Paris-Est, France); Ramez Chahine (Lebanese University, Lebanon)

***Anti-tumor Activities of the Synthetic Retinoid ST1926 in 2D and 3D Human Breast Cancer Models***

Patrick Aouad, Melody Saikali and Dana Bazzoun (American University of Beirut, Lebanon); Claudio Pisano (Biogem, Research Institute, Lebanon); Rabih Talhouk and Nadine Darwiche (American University of Beirut, Lebanon)

***Highlights on Anatomy Teaching at the AUB: 1866 to 2015***

Abdo Jurjus (American University Of Beirut, Lebanon); Doureid Oueidat, William Saad, Joseph Kahhaleh and Hisham Daouk (American University of Beirut, Lebanon)

***Alzheimer's disease and Neuronutrition Management***

Georges Rammouz and Najib El Haddad (American University of Technology, Lebanon); Maya El Mir (Americna University of Technology, Lebanon); Karen Merhi (Amercan University of Tehnology, Lebanon)

***Randomized double-blind controlled study of 5 mg amitriptyline versus placebo in the management of chronic neck pain***

Joe Abdel Hay (Université Saint Joseph - Beirut - Lebanon, Lebanon)

***Efficacité de la Radiofréquence dans la Prise en Charge des Ostéomes Ostéoïdes Spinaux***

Joe Faddoul (Université Saint-Joseph, Lebanon)

***Randomized double-blind trial comparing the post-operative analgesic added value of local wound infiltration with clonidine in posterior spine surgery***

Joe Abdel Hay (Université Saint Joseph - Beirut - Lebanon, Lebanon)

## **P2\_BIO2\_Pharma: Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences II**

Room: USJ Hall CSH

Chairs: Aline Hajj (Universite Saint Joseph, Lebanon), Amal Omar (Beirut Arab University, Lebanon)

***The molecular basis of familial hypercholesterolemia in Lebanon***

Marianne Abi Fadel (Université Saint Joseph, Lebanon); Sandy Elbitar (USJ, Lebanon); Petra El Khoury (Universite Saint Joseph, Lebanon); Youmna Ghaleb (USJ, Lebanon)

***Effet saisonnier et circadien d'extraits d'aubergine sur le pouvoir antioxydant de la salive***

Randa Diab, Mounir Doumit and Ramez Chahine (Lebanese University, Lebanon)

***Berberis libanotica* Extract Targets NF- $\kappa$ B/COX-2, PI3K/Akt and Mitochondrial/Caspase Signaling to Induce Human Erythroleukemia Cell Apoptosis**

Saada Diab (University of Limoges, France); Mona Assaf (Lebanese University, Lebanon); Bertrand Liagre (University of Limoges, France)

***Protein content analysis and biological activities of Montivipera bornmuelleri's venom***

Mohamad Rima (INSERM U836, Grenoble Institute of Neuroscience, Lebanon); Achraf Kouzayha (Centre Azm pour la Recherche en Biotechnologie, Lebanon); Souad Hraoui-Bloquet (Lebanese University, Lebanon); Riyad Sadek (American University, Lebanon); Monzer Hamze (Lebanese University, Lebanon); Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon)

***EAPB0503 Imiquilines derivatives:Effect on tubuline polymerization***

Zahraa Zghaib (Université Libanaise, Lebanon); Kamel Hadj-Kaddour (Université de Montpellier, France); Nicole Bec (INSERM, France); Sonia Khier and Florence Gattacceca (Université Montpellier I, France); Michel Bellis and Christian Larroque (INSERM, France); Pierre-Antoine Bonnet (Université Montpellier I, France); George Moarbess (Université Libanaise, Lebanon); Pierre Cuq and Carine Masquéfa (Université Montpellier I, France); Issam Kassab (Université Libanaise, Lebanon); Mona Assaf (Lebanese University, Lebanon)

***Effets cardiovasculaires et antioxydants des extraits des racines, des feuilles et des fruits de l'arbusier Libanais (Arbutus Andrachne L)***

Emna Abidi (Université Libanaise, Lebanon); Ramez Chahine and Assem ElKak (Lebanese University, Lebanon)

***Design, synthesis and biological evaluation of novel hydroxyalkylpiperidinylpentanol, hydroxyalkylpiperazinylpentanol and their isosteric ethoxyethanol derivatives as potential antidepressants***

Doaa Issa, AlamEddine Bashir, Farah Mansour, Kawkab Rahal, Maya AlAriss, Mira Safa, Nadine Ismail, Rawane J. AlKaaki AlKaaki, Rayane M. Abou hawily AbouHawily, Rawaa M. Sharbaji Sharbaji and Violette H. Fawaz Fawaz (Faculty of Pharmacy, Beirut Arab University, Lebanon)

***Hypotensive effect of the venom of Montivipera bornmuelleri viper on vascular contractility***

Ziad Fajloun (Azm Center for Research in Biotechnology and its Applications & Doctoral School in Sciences and Technology, Lebanese University, Lebanon); Claudine Accary (Lebanese University, Lebanon); Asmaa Alameddine (Université d'Angers, France); Souad Hraoui-Bloquet (Lebanese University, Lebanon); Riyad Sadek (American University, Lebanon); Jean Claude Desfontis (LUNAM, France); Yassine Mallem (LUNAM - Oniris, France)

## **P2\_BIO3\_Biologique: Poster Session 2- Biological, Medical, Pharmaceutical, Health Sciences III**

Room: USJ Hall CSH

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Wissam Faour (Lebanese American University, Lebanon), Monzer Hamze (Lebanese University, Lebanon)

***Search for Substrates and Activators of a New Family of Bacterial Protein Kinases***

Takla El khoury (University of Balamand & University of Balamand, Lebanon)



***Identification of a new expandable embryonic endodermal progenitor via de-differentiation of adult hepatocytes***

Diana Chaker (Paris Sud 11- France/ EDST-LIBAN, Lebanon); Franck Griscelli (INSTITUT GUSTAVE ROUSSEY, Lebanon)

***Role of the Retinoblastoma protein, pRb, in the Survival of Adult-Born Neurons in the Olfactory Bulb***

Saad Omais (American University of Beirut, Lebanon); Sawsan Al Lafi (AUB, Lebanon); Noel Ghanem (American University of Beirut, Lebanon)

***Evaluating the Contribution of Melanization to Antibacterial Defense in the Malaria Vector *Anopheles gambiae****

Tamara Abou Matar and Mike Osta (American University of Beirut, 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); Hibret Adissu (Center for Modeling Human Disease, Toronto Centre for Phenogenomics, Canada); Sabreen Fostok (American University of Beirut, Lebanon); Sophie Lelievre (Purdue University, USA); Rabih Talhouk (American University of Beirut, Lebanon)

***Molecular Phylogeny and Cytogenetic Characterization of *Iris* genus in the East Mediterranean Region***

Nour Abdel Samad (Saint-Joseph University & University of Paris-Sud, Lebanon); Elie Saliba (ULB-Université libre de Bruxelles, Belgium); Oriane Hidalgo (Royal Botanic Gardens, Kew, United Kingdom); Sonja Siljak-Yakovlev (University of Paris-Sud, France); Magda Bou Dagher-Kharrat (Saint-Joseph University, Lebanon)

***The Leading Risk Factors of Cardiovascular Diseases in Tripoli***

Ghada Nachabeh (Manar University of Tripoli, Lebanon)

***Heme Oxygenase 1 Plays a Role in the Pathophysiology of  $\beta$ -Thalassemia***

Marc Mikhael (Lebanese American University, Lebanon); Prem Ponka (McGill University, Canada)

***Evaluation of microbial contamination in Lebanese schools***

Lubna Malaeb and Hoda Youssef (Beirut Arab University, Lebanon); Zakia Olama (University, Egypt)

***Roles of RhoA, RhoC and RhoG in secretion of VEGF by astrocytoma cells and Angiogenesis in Vascular Endothelial Cells***

Amira Fakih and Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

***Antimicrobial activity of Clove oil and *Malvae palviflora* against dental caries causing microorganisms***

Sana Hadid and Mohammad H. El-Dakdouki (Beirut Arab University, Lebanon); Roula S. Abiad (Faculty of Dentistry, Beirut Arab University, Lebanon)

***Evaluating the Antibacterial Effects of Different Parts of *Rubus hedycarpus* Against Drug Resistant Bacterial Strains***

Omar Assafiri, Ghada Khawaja and Mohammad H. El-Dakdouki (Beirut Arab University, Lebanon)

***Characterization and genotoxicity of airborne particles in Northern Lebanon***

Pamela Melki (University of Balamand, Faculty of Sciences, Lebanon; Université du Littoral Côte d'Opale, France, Lebanon); Frederic Ledoux (Université du Littoral Côte D'Opale, France); Samer A Aouad (University of Balamand, Lebanon); Sylvain Billet (Université du Littoral Côte D'Opale, Lebanon); Billal El Khoury (University of Balamand, Lebanon); Yann Landkocz (Université du Littoral Côte D'Opale,

Lebanon); Dorothee Dewaele (Université du Littoral Côte D'Opale, France); Dominique Courcot (Université du Littoral Côte d'Opale, France); Roula M. Abdel-Massih (University of Balamand, Lebanon)

***Effect of Methotrexate and Carboplatin on Plasma Membrane Phospholipid Content and Motility of MCF7 Cells***

Jamilah Borjac (Beirut Arab University, Lebanon); Rim Dannaoui, Hiba Saab and Mohammad H. El-Dakdouki (BAU, Lebanon); Julnar Usta (AUB, Lebanon); Mirvat El-Sibai El-Sibai (Lebanese American University, Lebanon)

***Chemical composition and antimicrobial activity of leaves, stems and fruits of Lebanese Laurus nobilis***

Layal Fahed (USEK-Liban, MNHN, CNRS-France, Lebanon); Marc El Beyrouthy and Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Veronique Eparvier (CNRS, ICSN, Gif-sur-Yvette, France); Didier Stein (CNRS France, Lebanon)

## **P2\_EDU: Poster Session 2- Education**

Room: USJ Hall CSH

Chairs: Nizar Hariri (Saint Joseph University & Association Libanaise Pour l'Economie Sociale, Lebanon), Marie Therese Saliba (Lebanese University, Lebanon)

***La formation continue à l'usage des TIC des enseignants de français au Liban***

Ghina El Abboud (University of Limoges, France)

***"Governance and Business Models in the Higher Education Ecosystem: A Theoretical Presentation"***

Jocelyne Jreij (University of Balamand & Balamand Secondary School, Lebanon); Antoine Melki (University of Balamand, Lebanon)

***Lebanese Guidelines for Early Childhood Care***

Joyce Rouhana (Université Saint-Esprit de Kaslik, Lebanon); Pamela Zgheib (Ministry of Public Health, Lebanon)

***The Effect of Classroom Environment on Scientific Student Learning***

Lina Alameh (Modern University for Business and Science, Lebanon)

***The Impact of Game Assessment on Enhancing Scientific Student's Performance***

Lobna Bou Diab (Modern University of Business and Science, Lebanon)

***Communicative Approach: A Helpful Tool in Terminological Research Projects***

Stephany Saad (Université Saint-Esprit de Kaslik, Lebanon)

***Basketball Terminology: toward a Standardization Committee***

Stephany Saad (Université Saint-Esprit de Kaslik, Lebanon)

## **P2\_eng1\_energy\_power: Poster Session 2- Engineering I**

Room: USJ Hall CSH

Chairs: Aziz M. Barbar (American University of Science and Technology, Lebanon), Rony Darazi (Antonine University, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***A design of clothes dryer using the heat recovered from HVAC systems***

Mohamad Ramadan (Lebanese International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon); Hussein Jbara and Abdel El bast (Lebanese International University, Lebanon)

***Selection and Classification of Heat Exchangers for Energy applications***

Mohamad Ramadan (Lebanese International University, Lebanon); Mahmoud Khaled and Mostafa Gad El Rab (Lebanese International University, Lebanon); Bilal Haidar and Loris Doumanian (Lebanese International University, Lebanon)

***Conception et commande d'un convertisseur électronique de puissance pour la génération électrique à partir de cellules photovoltaïques***

Fadia Sebaaly (Saint-Joseph University, Lebanon); Hani Vahedi (Ecole de Technologie Supérieure, Canada); Hadi Y. Kanaan (Saint-Joseph University, Lebanon); Nazih Moubayed (Lebanese University, Lebanon); Kamal Al-Haddad (Ecole de technologie supérieure, Canada)

***A new series z-source sparse matrix converter applied to a PMSG-based wind conversion system***

Catherine Nasr El-Khoury and Hadi Y. Kanaan (Saint-Joseph University, Lebanon); Imad Mougharbel (Lebanese University, Lebanon)

***Design of a Matlab GUI to study the behavior of PV cells***

Elie Sayah (Lebanese International University, Lebanon); Mahboub Bteich (LIU, Lebanon); Mohamad Arnaout (LIU & Electrical Engineer, Lebanon); Ali H Assi and Hassan Bazzi (Lebanese International University, Lebanon)

***A new approach of Automatic detection and analysis of Body Language in real-time***

Inass Ayoub Salloum, Youssef Bou Issa and Taline Boyajian (Universite Antonine, Lebanon)

***Automated Building for Car Parking***

Ahmad Haddad, Rabih Saj and Ahmad Al Issa (Lebanese International University, Lebanon)

***Wind Energy Conversion System: Introduction of advanced technological concepts***

Ali Hammoud (Lebanese International University- Beirut, Lebanon); Mohammad Mokdad and Abbass Nahle (Lebanese International University, Lebanon); Rodrigue Elias (LIU, Lebanon); Marc Anthony Mannah (Lebanese International University, Lebanon)

***A Three-Phase DC-DC Converter for High Current Fuel-Cell Applications***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***A Three-Phase Four-Leg Shunt Active Power Filter for Power Quality Improvement***

Hadi Y. Kanaan (Saint-Joseph University, Lebanon)

***Allocating resources in WirelessHART for Real Time applications***

Gilbert Habib (Faculty of Sciences II- Lebanese University, France)

***AUTOBAR: Automated Drink Maker using Mobile Application***

Michel J Owayjan, Mohammad Eido, Bilal Khatib, Samer Kiwan and Karim Timani (American University of Science & Technology, Lebanon)

***Parking Management System Using Mobile Application***

Michel J Owayjan, Bahaa Sleem, Elio Saad and Amer Maroun (American University of Science & Technology, Lebanon)

***Entraînement d'un mélangeur à rotors engrenants***

Nour Chamaa and Lara Ghosn (Université Saint Joseph, Lebanon); Flavia Khatounian (Université Saint Joseph de Beyrouth, Lebanon)

***Valorisation des déchets solides pour la production d'électricité au Liban***

Chantal Maatouk (Saint Joseph University, Lebanon); Nour Zgheib (Saint Joseph University- Faculty of Engineering, Lebanon); Mounir Jibbawi (Saint Joseph University, Lebanon)

***Procédé de traitement de produits biologiques (EPPIP) en vue de la modification de leur contenu lipidique et texture; mise en œuvre d'un tel procédé et reconstitution par des méthodes préservant l'apparence et les qualités organoleptiques des graines***

Joelle Nader, Charbel Afif and Nicolas Louka (Saint Joseph University, Lebanon)

***Modeling of Speed Bump Power Generator***

Mohamad Ramadan (Lebanese International University, Lebanon); Mahmoud Khaled (Lebanese International University, Lebanon)

## **P2\_eng2\_CCE: Poster Session 2- Engineering II**

Room: USJ Hall CSH

Chairs: Aziz M. Barbar (American University of Science and Technology, Lebanon), Rony Darazi (Antonine University, Lebanon), Khaled H. Khalil (Université Libanaise & Faculté de Génie, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***Resource Management in Future Opportunistic Networks***

Joyce Obeid (Holy Spirit University of Kaslik, Lebanon)

***Caractérisation des matériaux magnétiques opérant à hautes fréquences***

Adnan Al-Rifai (Université Antonine, Lebanon); Taline Boyajian (Université Antonine, Lebanon)

***Miniaturized SIW Leaky Wave Antenna using Slow-Wave effect***

Mohamad Khalil (Lebanese University & University of Tehran, Lebanon); Mahmoud Kamarei (University of Tehran, Iran); J. Jomaah (Lebanese University, Lebanon); Hussam Ayad (Grenoble, France)

***Cross-layer Framework for Green Communication***

Samara Masri (Holy Spirit University of Kaslik-USEK, Lebanon)

***objective quality assessment of tone mapped images***

Jad Melhem (USEK, Lebanon)

***Mood and Emotion Detection in Call Centers***

Sandra Kerbage (Holy Spirit University, Lebanon)

***Data over FM/AM Radio Tranceiver***

Hussein Hijazi (Grenoble-INP, GIPSA-Lab, France); Ali Chamas Al Ghouwayel (Lebanese International University, Lebanon)

***Hybrid EMS-Near ML Algorithm for Non-Binary LDPC Codes***

Ali Chamas Al Ghouwayel (Lebanese International University, Lebanon); Hussein Hijazi (Grenoble-INP, GIPSA-Lab, France); Ahmad Issa and Mohammed Dahwi (LIU, Lebanon)

***End to End Quality of Service Support between LTE and WiMAX in 4G Heterogeneous Networks***

Alice Rizk (USEK, Lebanon)

***Smart Walker***

Roger Achkar, Gaby H Abou Haidar, Hussein Allam, Richard Maalouf, Batoul Msheik and Moussa Abdulrahim (American University of Science and Technology, Lebanon)

***Joint Utilization of Personal Devices for Enhanced Mobile Video Streaming***

Sanaa Sharafeddine (Lebanese American University, Lebanon); Karim Jahed (Lebanese American University, Lebanon); Nabil Makarem (Lebanese American University, Lebanon)

***Modeling and Control of a Fuel Cell operated Asynchronous Machine***

Ahmad Haddad, Perla Assaf, Khaled Safsouf and Bashir Omarie (Lebanese International University, Lebanon)

***Toward a better and much efficient Wind Energy Conversion System***

Jalal Chamas, Zeina Boucher, Khaled A. Chahine and Marc Anthony Mannah (Lebanese International University, Lebanon)

**P2\_FEA1\_env: Poster Session 2- Food security, Environment, Agriculture I**

Room: USJ Hall CSH

Chairs: Maher Abboud (Unité Environnement Génomique Fonctionnelle et Etudes Mathématiques, UEGFEM, FS-USJ, Lebanon), Claude Daou (Lebanese University, Lebanon), Wehbeh Farah (Université Saint Joseph, Lebanon)

***Flora Biodiversity in Hermon Mountain: Substantial Endemism***

Safaa Baydoun (Beirut Arab University, Lebanon); Nelly Arnold (Université Saint Esprit, Lebanon); Helena Dalleh and Ousama Halablab (Beirut Arab University, Lebanon); M Sayah (Lebanese University, Lebanon); Lamis Chalak (The Lebanese University, Lebanon)

***Applied Lagrangian Methods for the tracking of pollutants in the Eastern Mediterranean Basin***

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

***Methodological assessment of sustainable management solution of Infectious healthcare waste in Lebanon***

Olivia Maamari (Saint Joseph University, Lebanon); Cedric Brandam (Université de Toulouse, France); Roger Lteif (Université Saint-Joseph, Lebanon); Dominique Salameh (Faculté des Sciences, Université Saint-Joseph, Lebanon)

***TRANSEMED: Transport Emissions and Mitigation in the Middle East - A focus on Beirut***

Charbel Afif (Saint Joseph University, Lebanon); Agnes Borbon and Therese Salameh (LISA, CNRS, France); Charbel Abdallah (Saint Joseph University, Lebanon); Antoine Waked (Ecole des Mines de Douai, France); Adib Kfoury (University of Balamand, Lebanon); Cyril Karam (Saint Joseph University, Lebanon); Stephane Sauvage (Mines Douai, France); Jean-Francois Doussin and Paola Formenti (LISA, CNRS, France); Karine Sartelet and Christian Seigneur (CEREA, Ecole des Ponts ParisTech, France); Nadine Locoge (Mines Douai, France)

***Preliminary insights into the air quality of Zouk Mikael area***

Charbel Afif (Saint Joseph University, Lebanon); Layale Moussa, Kamil Rahme and Colette Kabrita (Notre Dame University, Lebanon)

***A simple ensemble modeling to assess air quality in Lebanon***

Charbel Abdallah (Saint Joseph University, Lebanon); Antonio Piersanti and Massimo D'Isidoro (ENEA, Italy); Charbel Afif (Saint Joseph University, Lebanon); Nour Masri (Ministry of Environment, Lebanon); Andrea Cappelletti and Gino Briganti (ENEA, Italy); Karine Sartelet (CEREA, Ecole des Ponts ParisTech, France); Gaia Righini, Luisella Ciancarella and Gabriele Zanini (ENEA, Italy)

***BIODIVERSITY AND FISHERY RESOURCES IN LEBANESE SEAWATER ( East Mediterranean)***

Sami Lakkis (Lebanese University, Lebanon); Vanda Novel (NCMS, Lebanon)

***Assessment of carbamazepine degradation by fungus *Trametes versicolor*: kinetics and thermodynamics***

Samer Semrany (Lebanese University, Lebanon)

***The first investigation on cactus species as a biomonitor: a case study of *Opuntia ficus-indica* under atmospheric fallouts enriched with lead***

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)

***CNRS-L role in Early Warning System for Natural Disasters***

Chadi Abdallah (National Council For Scientific Research, Lebanon); Ghaleb Faour (National Council for Scientific Research, Lebanon); Talal Darwish (CNRS, Lebanon); Mouin Hamze (National Council for Scientific Research, Lebanon)

***Evolution of Metallic Trace Elements in Contaminated River Sediments: Geochemical Variation along River Linear and Vertical Profile***

Hussein Kanbar (Lebanese University & Lorraine University, Lebanon); Emmanuelle Montarges-Pelletier, Laurence Mansuy-Huault, Benoit Losson, Luc Manceau, Allan Bauer, Isabelle Bihannic and Renaud Gley (Lorraine University, France); Antoine El Semrani, Ahmad Koubeissi and Veronique Kazpard (Lebanese University, Lebanon); Frédéric Villieras (Lorraine University, France)

***study of the sexual maturity and sex inversion mechanism of *Lithognathus mormyrus* in the coastal water of Lattakia***

Waad Sabour, Adib Saad and Ahlam Ali (Tishreen University, Syria)

***Overview of the fossil batomorphs from the Cenomanian limestone of Lebanon***

Georges Kachacha (Lebanese University & Copenhagen University, Denmark); Gilles Cuny (Université Claude Bernard Lyon 1, Denmark); Pierre Abi Saad (Amateur, Lebanon); Dany Azar (Lebanese University, Lebanon)

***First succession study of a cadaver entomofauna in Lebanon***

Salman Shayya (National Museum of Natural History Doctoral School, ED227 Paris, France); Cynthia Bassil (Lebanese University, Lebanon); Calil Makhoul (American University of Science and Technology, Lebanon); Mohammad Al-Zayed (Lebanese University, Lebanon); André Nel (Muséum National d'Histoire Naturelle, France); Dany Azar (Lebanese University, Lebanon)

***The Jezzian, a Regional Stage recently implemented in the Lebanese Lower Cretaceous***

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

***Polymères à empreintes moléculaires pour la recapture de résidus de médicaments dans les eaux***

Syntia Fayad (Orleans & ICOA, France)

***Caractérisation de la pollution du sol d'une parcelle de la Bekaa (Liban): essai de phytoremédiation assistée par les champignons mycorhiziens***

Imad El-Alam (Université Libanaise, Lebanon); Ramez Chahine and Hassane Makhoulf (Lebanese University, Lebanon); Anissa Lounès-Hadj Sahraoui (Université du Littoral Côte d'Opale, France); A Verdin (Université du Littoral Côte D'Opale, France); Joel Fontaine (Université du Littoral Côte d'Opale, France)

***Determination of manganese oxide phases dispersed on hydroxyapatite for total oxidation of toluene***

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

***Dynamiques des écosystèmes méditerranéens durant le passé***

Jalal Tabel (Université de Montpellier, France)

## **P2\_TCEP1\_Chimistry: Poster Session 2- Theoretical and Experimental Chemistry and Physics I**

Room: USJ Hall CSH

Chairs: Natalie Estephan (Holy Spirit University of Kaslik, Lebanon), Chadi Nader (Lebanese University, Lebanon)

***Characterization of depolymerized and non-depolymerized alginate extracted from Lebanese brown algae Sargassum vulgare and the synthesis of amidic-alginate derivatives***

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

***Vapor pressure measurement of heavy hydrocarbons by dynamic saturation apparatus***

Juliette Stephan (Université Libanaise & Faculty of Sciences, Lebanon); Joseph Saab (Université Saint-Esprit de Kaslik & Faculty of Sciences, Lebanon); Ilham Mokbel and Jacques Jose (Université Claude Bernard Lyon1, France); Hanane Ishak (USEK, Lebanon)

***High density barium titanate nanoceramics derived from mechanical activation and Spark plasma sintering***

Tawfik Al Naboulsi (Lebanese University, Lebanon); Mirvat Zakhour (Lebanese University, Lebanon); Madona Boulos (Université Libanaise, Lebanon); Pascal Dufour and Sophie Guillemet-Fritsch (Université Paul Sabatier, France)

***Synthesis and characterization of new coupling derivatives between closo-decahydrodecaborate and polyoxometalate for biological activities***

Manal Diab (University of Science, Lebanon)

***Catalyseurs d'hydrogénation à base de Rh(0) colloïdal dispersé sur des supports acides mésoporeux hexagonaux et mésocellulaires***

Chantal Karam (Université Libanaise, France); Maya Boutros (Lebanese University, Lebanon); Franck Launay (Université Pierre et Marie Curie, France)

***Hydrogen generation from the hydrolysis of Mg-based materials for PEM Fuel Cell***

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

***Etude de la faisabilité de la séparation de polymères de type protéines en macro LC(HPLC très faible débit micro colonne) LC-MS/MS***

Cynthia Sultawi (Université Saint-Esprit de Kaslik, Lebanon); Claude Geffroy and Pauline Poinot (Université de Poitiers, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon)

***Etude des réactions entre la monochloramine et les molécules organiques modèles(acides aminés)***

Simon Hayek (Université Saint-Esprit de Kaslik, Lebanon); Hervé Gallard and Florence Berne (Université de Poitiers, France); Naim Ouaini (Holy Spirit University of Kaslik, Lebanon); Virginie Simon (Université de Poitiers, France)

***Oxidative degradation of pentachlorophenol by permanganate for ISCO application***

Roger Matta (Université USEK, Lebanon)

**13:00 - 14:00**

**LUN 2: Lunch**

Room: USJ

**14:00 - 14:45**

**SP4: Séance plénière 4**

Collège et école doctoraux

**Prof. Christelle Goutaudier, Université de Lyon (France)**

Room: USJ Salle Polyvalente E5

Chairs: Jarjoura Hardane (Université Saint Joseph, Lebanon), Lydia Khabbaz (Université Saint Joseph, Lebanon)



**14:45 - 16:15**

**BIO13\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences XIII**

Room: USJ CSM Amphi B

Chairs: Hayat Azouri (Saint Joseph University, Lebanon), Fouad Dabboussi (Lebanese University, Lebanon)

***The synthetic retinoid ST1926 as a novel therapeutic agent in rhabdomyosarcoma***

Hussein Basma (American University of Beirut, Lebanon); Raya Saab (AUBMC, Lebanon)

***Contribution of copy number variants (CNVs) to congenital, unexplained intellectual and developmental disabilities in Lebanese patients***

Nancy Choucair and Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Pierre Cacciagli (Faculté de Médecine de la Timone, France); Cecile Mignon-Ravix (Faculté de Médecine de la Timone, Lebanon); Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Nabihah Salem (Université Saint Joseph, Lebanon); Nadine Jalkh (Unité de Génétique Médicale, USJ, Lebanon); Sandra Sabbagh (Université Saint Joseph, Lebanon); Ali Fawaz (Lebanese University, Lebanon); Tony Ibrahim (Université Saint Joseph, Lebanon); Laurent Villard (Faculté de Médecine de la Timone, Lebanon); Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

***Report of Novel Mutations in KIAA1840 and DDHD2 in two consanguineous Lebanese Families presenting Hereditary Spastic Paraplegias with thin corpus callosum***

Nadine Jalkh (Unité de Génétique Médicale, USJ, Lebanon); Jean-Louis Serre (Université de Versailles-Saint Quentin en Yvelines, Lebanon); Valérie Delague (Faculté de Médecine de la Timone, Lebanon); Jean-Pierre Desvignes (Faculté de Médecine de la Timone, France); Christel Depienne (Université Pierre et Marie Curie, Lebanon); Cécile Cazeneuve (Hospital Pitié-Salpêtrière, France); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

***Evaluation des Troubles du Langage dans le contexte plurilingue libanais: Utilisation des scores du « Questionnaire pour Parents d'Enfants Bilingues » (QPEB) comme prédicteurs diagnostiques des Troubles du Langage***

Edith El Kouba and Camille Messarra (Université Saint Joseph, Lebanon)

***Etude de validation de l'échelle d'Evaluation des Comportements Autistiques (ECA-R) en langue arabe, au Liban***

Edith El Kouba, Camille Messarra and Sami Richa (Université Saint Joseph, Lebanon); Sylvie Roux and Catherine Barthélémy (Université François Rabelais de Tours, France)

***L'évaluation orthophonique au Liban: ELO-L (adaptation de l'ELO)***

Edith El Kouba (Université Saint Joseph, Lebanon); Rasha Zebib (Université François-Rabelais de Tours, Lebanon); Guillemette Henry and Camille Messarra (Université Saint Joseph, Lebanon)

**BIO14\_Pharmra: Biological, Medical, Pharmaceutical, Health Sciences XIV**

Room: USJ CSM C9

Chairs: Ramez Chahine (Lebanese University, Lebanon), Latife Karam (Université Saint Joseph, Lebanon)

***Novel insights into the role of interleukin-23 in nickel-induced allergic contact dermatitis***

Rami Bechara (UniverSud INSERM UMR-996 France and USJ, Laboratoire de Toxicologie, Beyrouth, Lebanon); Diane Antonios (Université Saint Joseph, Laboratoire de Toxicologie, Beyrouth, Lebanon); Hayat Azouri (Saint Joseph University, Lebanon); Marc Pallardy (UniverSud, INSERM, Châtenay Malabry, France)

***Evaluation of Antibiotic Prescription in Hospitalized Lebanese Childrens***

Ghadeer Olleik (Faculty of Pharmacy, Lebanese University, Lebanon); Amal El Hajj and Samar Rachidi (Université Libanaise, Lebanon); Imad Chokr (Rafic Hariri University Hospital, Lebanon); Hamza Olleik (Faculty of Pharmacy, Lebanese University, Lebanon); Wafaa El Bawab and Pascale Salameh (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

***Evaluation of Antibiotic Prescription in Lebanese Elderly Hospitalized Patients***

Aseel Abdullah Jradi (Lebanese University, Lebanon); Maya Itany and Zeinab Charaf (Faculty of Pharmacy, Lebanese University, Lebanon); Salam El zein and Samar Rachidi (Université Libanaise, Lebanon); Akram Ehtay (RHUH, Lebanon); Amal El Hajj, Wafaa El Bawab and Pascale Salameh (Université Libanaise, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon)

***The Neurosteroid Derivative Caprospinol Crosses the Blood Brain Barrier; Analysis by Liquid Chromatography and Tandem Mass Spectrometry***

Georges Rammouz (McGill University, Lebanon)

***Improved Plasma Cholesterol Efflux Capacity from Human Macrophages in Patients with Hyperalphalipoproteinemia***

Petra El Khoury (Universite Saint Joseph, Lebanon); Marianne Abi Fadel (Université Saint Joseph, Lebanon)

***Evaluation des prescriptions en Médecine Interne: Elaboration d'un score prédictif de l'erreur visible***

Mayssam Bou zeid and Akram Farhat (Lebanese University, Lebanon); Sanaa Awada (Faculty of Pharmacy, Lebanese University, Lebanon); Samar Rachidi, Salam El zein, Wafaa El Bawab, Pascale Salameh and Amal El Hajj (Université Libanaise, Lebanon)

## **BIO15\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences XV**

Room: USJ CSM C3

Chairs: Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon), Nassim Fares (University of Saint Joseph, Lebanon)

***Occurrence of Multi-Drug Resistant Gram Negative Bacilli in Nursing Home Residents of North Lebanon***

Iman Dandashi, Elie Salem, Eid Azar and Claude Afif (University of Balamand, Lebanon); Salam Samad and Khalil Masri (Centre Hospitalier du Nord, Lebanon); Ziad Daoud (University of Balamand, Faculty of Medicine & Centre Hospitalier du Nord Hospital, Lebanon)

***Molecular study of ERCC6 and ERCC8 in Lebanese patients with Cockayne Syndrome***

Alain Chebly (Saint Joseph University, Lebanon); Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

***10q26.1 Microdeletion: Redefining the Critical Regions for Microcephaly and Genital Anomalies***

Nancy Choucair and Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Ali Fawaz (Lebanese University, Lebanon); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

***Cytogenetic and molecular findings in a patient with myeloproliferative neoplasm***

Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Rima Korban (unité de Génétique Médicale, USJ, Lebanon); Tony Yammine (Unité de Génétique Médicale, USJ, Lebanon); Alain Chebly (Saint Joseph University, Lebanon); Nadine Jalkh (Unité de Génétique Médicale, USJ, Lebanon); Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

***Cytogenetic study of 108 Lebanese CLL patients***

Alain Chebly (Saint Joseph University, Lebanon); Tony Yammine (Unité de Génétique Médicale, USJ, Lebanon); Rima Korban (unité de Génétique Médicale, USJ, Lebanon); Andre Megarbane (Saint Joseph University, Lebanon)

***Molecular study of RMRP gene (CHH syndrome) in a cohort of 13 patients from different origins***

Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

## **ENG9\_MEC: Engineering IX**

Room: USJ CSH 206

Chair: Sandy Rihana (Holy Spirit University of Kaslik, Lebanon)

***Green Composites: Mechanical Properties***

Sara Jebaï (Lebanese International University, Lebanon); Mohamad S Hammoud (Lebanese International University (LIU), Lebanon); Ali Hallal (Lebanese International University, Lebanon); Ali Alshaer (Lebanese International University, Lebanon)

***Proper Generalized Decomposition method to study the viscoelastic behaviour of polymer***

Mohamad S Hammoud (Lebanese International University (LIU), Lebanon); Mouhamad Hammoud (Lebanese International University, Lebanon); Marianne Beringhier and Jean-Claude Grandidier (Institut P', Département Physique et Mécanique des Matériaux, France); Ali Alshaer (Lebanese International University, Lebanon)

***Novel Design of Delta Winglet Pair for Heat Transfer Enhancement***

Mohammad Oneissi (LUNAM University & Lebanese International University, Lebanon); Charbel Habchi (Lebanese International University, Lebanon); Serge Russeil (Mines Douai, France); Daniel Bougeard (Ecole des mines de Douai, France); Thierry Lemenand (University of Angers, France)

***Heat Transfer Enhancement in Channel Flow downstream a Rectangular Winglet Pair Vortex Generator***

Assadour Khanjian (LUNAM University & Lebanese International University, Lebanon); Charbel Habchi (Lebanese International University, Lebanon); Serge Russeil (Mines Douai, France); Daniel Bougeard (Ecole des mines de Douai, France); Thierry Lemenand (University of Angers, France)

***Influence of the root-soil mechanical interactions on the variability of root architecture***

Mahmoud Fakih (Montpellier University & LMGC, Cirad, France)

***Medical Jet Nebulizers: Innovative design towards effective nebulization***

Georges Matar (USEK-Kaslik, Lebanon); Sandy Rihana (Holy Spirit University of Kaslik, Lebanon)

***Wind-waves hybrid system concept for power generation***

Wassim Chehade and Dory Chamoun (Lebanese University, Lebanon); Charbel Bou-Mosleh (Notre Dame University, Lebanon); Pierre Rahme (Lebanese University, Lebanon)

## **ENG10\_CCE: Engineering X**

Room: USJ CSH 208

Chairs: Aziz M. Barbar (American University of Science and Technology, Lebanon), Wassim Raphael (Université Saint Joseph, Lebanon)

***Structure Tensor Field Quality Assessment***

Wajih Sleiman (USEK, Lebanon); Adib Akl (Holy-Spirit University of Kaslik, Lebanon)

***Extended Near ML Algorithm for Decoding Non-Binary LDPC Codes***

Ali Chamas Al Ghouwayel (Lebanese International University, Lebanon); Hussein Hijazi (Grenoble-INP, GIPSA-Lab, France); Hamoud Younes (LIU, Lebanon)

***Texture Analysis using Structure Layer and Orientation***

Joe Iskandar (University Holy Spirit of Kaslik, Lebanon); Adib Akl (Holy-Spirit University of Kaslik, Lebanon)

***Transform your PC along with an analog Walkie-Talkie into a Digital Wireless Modem***

Mohamad Hijazi, Sami Abbass and Samir Omar (Lebanese International University, Lebanon)

***On Positioning Techniques in LTE Cellular Systems***

Khaled Al Haj Ismaïl (Autonomous University of Barcelona, Lebanon); Jose Vicario (Universitat Autònoma de Barcelona, Spain); Antoni Morell (Universitat Autònoma de Barcelona (UAB), Spain); Michel Nahas (Lebanese International University (LIU), Lebanon)

***Theoretical and numerical study of an AMOOFDM IMDD transmission system using different SOA structures***

Mohamad Hamze (Arts, Sciences & Technology University in Lebanon (AUL), Lebanon); Ali Hamie (Arts Sciences & Technology University in Lebanon (AUL), Lebanon); Ammar Sharaiha (ENIB, France); Jianming Tang (Bangor University, United Kingdom)

***Enhancement of radiation efficiency of ring-shaped slotted rectangular waveguide antennas***

Ali Harmouch and Hassan Haddad (Lebanese University, Lebanon); Mustapha Ziade (Lebanese University & Branch 1, Lebanon); Yvona Yammine (Notre Dame University, Lebanon); Ahmad El sayed Ahmad (Doctoral School, Lebanese University, France); Larissa Abou Assaf (Notre Dame University, Lebanon); Rabih Barake (Doctoral School, Lebanese University, Lebanon)

## **MCS3\_computer: Mathematics and Computer Sciences III**

Room: USJ CSH 306

Chairs: Dany Mezher (Saint Joseph University, Lebanon), Ahmad M. Shahin (Lebanese University, Lebanon)

***Privacy-Enhanced Disassociation of Set-Valued Data***

Sara Barakat (Antonine University, Lebanon)

***A Novel Perceptron Architecture for Simulating Object Construction***

Hussein Chible, Alaa Almisstaf, Rami Tawil and Ali Jaber (Lebanese University, Lebanon)

***Software product lines evolution for valuable reusability***

Eddy Ghabach (I3S-CNRS-University of Nice Sophia Antipolis & Université Saint-Esprit de Kaslik, Lebanon); Franjeh El Khoury (Université Saint-Esprit de Kaslik & Université Lyon1, Lebanon); Mireille Blay (Université Nice Sophia Antipolis, France); Badih Baz (USEK, Lebanon)

***Computational Analysis of the Gibbs-Wilbraham Effect As an Inverse Problem***

Nassar Haidar (AUL, Lebanon)

***Interface transport scheme of a two phase flow by the method of characteristics***

Mireille Wazen (University of Saint-Joseph & LJLL - Pierre & Marie Curie University, Lebanon); Frederic Hecht (University Pierre and Marie Curie -LJLL, France); Toni Sayah (Université Saint-Joseph, Lebanon)

***Two dimensional Ginzburg-Landau model with variable magnetic field***

Kamel Attar (Lebanese University, Lebanon)

## **EDU2: Science and Mathematics Education II**

Room: USJ CSM Amphi A

Chairs: Fadi El Hage (Universite Saint Joseph (USJ), Lebanon), Marie Therese Saliba (Lebanese University, Lebanon)

***Enseigner le français langue étrangère à des adolescents libanais issus de milieux socioculturels non-francophones, Démarche socioconstructiviste***

Romacia Chamaa (USJ fsedu, Lebanon)

***Les enjeux pour les enseignants de l'introduction du numérique à la Faculté des Sciences de L'Université Libanaise (Liban)***

Joyce Rouhana (Université Saint-Esprit de Kaslik, Lebanon); Norma Zakaria (USEK, Lebanon); Jacques Wallet (Université de Rouen, France)

***L'USF: A la recherche continue de l'innovation dans l'enseignement***

Josiane Abi Khattar (Université Sainte Famille USF, Lebanon)

***Calculus Students and Infinity: Perceptions and Misconceptions***

Hiba S. Othman and Ziad Abou Haidar (American University of Science and Technology, Lebanon)

***The Role of an Interactive Website in Providing a Catalyst for Learning Calculus at University: An APOS Theory Approach***

Hiba S. Othman (American University of Science and Technology, Lebanon); Nina Hayfa (Lebanese University, Lebanon)

***University Instructors' Perceptions of Technology Integrated in Mathematics Classes: A TPACK Approach***

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

***The Effect of the Language of Instruction on the Math and Science Achievement of Lebanese Students***

Nadine Adnan Dandashly (American University of Science and Technology, Lebanon)

***Etude de l'évolution des représentations sur le métier d'enseignant des étudiants en sciences de l'éducation à l'Université Saint-Esprit de Kaslik***

Odile Saab (USEK- USJ-UL, Lebanon); Hind Alouf (USEK, Lebanon)

**15:30 - 17:30**

**TR5: Table Ronde 5**

Technologies de la lumière et applications aux quotidien

**Intervenants : Azzedine Boudrioua, Joseph Fadous, Naji Waked, Serge Fermandjian, Youssef El Hage**

Room: USJ Salle Polyvalente E5

Chairs: Marie Abboud (Saint Joseph University, Lebanon), Guy Le Brun (Université de Bretagne Occidentale, France)

**16:15 - 16:30**

**CB5: Pause-Café**

**16:30 - 18:00**

**BIO16\_Medicale: Biological, Medical, Pharmaceutical, Health Sciences XVI**

Room: USJ CSM Amphi B

Chairs: Marianne Abi Fadel (Université Saint Joseph, Lebanon), Walid Abou HAmad (Holy Spirit University of Kaslik, Lebanon)

***Novel mutation in forkhead box G1 (FOXP1) gene in a Lebanese patient with Rett syndrome***

Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Alain Chebly, Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

***Molecular Study of FANCA gene responsible for Fanconi anemia in a Lebanese cohort***

Tony Yammine (Unité de Génétique Médicale, USJ, Lebanon); Sandra Corbani (unité de Génétique Médicale, USJ, Lebanon); Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Alain Chebly (Saint Joseph University, Lebanon); Rima Korban (unité de Génétique Médicale, USJ, Lebanon); Eliane Chouery and Andre Megarbane (Saint Joseph University, Lebanon)

***Knock-out of the bradyzoite marker p18 in Toxoplasma gondii: insights towards a functional characterization during neurotoxoplasmosis***

Nadim Tawil and Lea Maalouf (American University of Beirut, Lebanon); Sana El-Sayyed (Lebanese University, Lebanon); Raghida Abou Merhi (Lebanese University & Faculty of Sciences, Lebanon); Sébastien Beistero (Université de Montpellier II, France); Jean-Francois Dubremetz (Université de Montpellier II, Lebanon); Maryse Lebrun (Université de Montpellier II, France); Hiba El-Hajj (American University of Beirut, Lebanon)

***L'écriture de l'arabe chez des enfants bigraphes***

Carla Matta Abizeid, Amira Tabsh Naib and Martine Mansour (Université Saint-Joseph, Lebanon); Jean-Michel Albaret (Université de Toulouse, UPS, France); Jean-Luc Velay (Aix-Marseille Université, France)

***Another rare case of a 9p complex rearrangement characterized by array-CGH***

Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Ghassan Hmaimess (Département de Pédiatrie, Université de Balamand, Lebanon); Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

***Seven years' experience using AS-qPCR for JAK2 V617F mutation detection in MPN***

Joelle Abou-Ghoch and Nadine Jalkh (Unité de Génétique Médicale, USJ, Lebanon); Andre Megarbane and Eliane Chouery (Saint Joseph University, Lebanon)

## **BIO17\_Phamra: Biological, Medical, Pharmaceutical, Health Sciences XVII**

Room: USJ CSM C9

Chairs: Ayman Assi (Faculté de Médecine, Université Saint-Joseph & Laboratoire de Biomécanique et d'Imagerie Médicale, Lebanon), George Hilal (Saint Joseph University, Lebanon)

***Impacts of chronic exposure, during development, to Chlorpyrifos on respiration and diaphragm contractility in rats***

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

***Rôle de la stimulation du cortex moteur dans la régénération nerveuse: Etude expérimentale chez le rat***

Joseph Maarrawi (St Joseph University & Laboratory of Neurosciences, Lebanon)

***Neuro-modulatory differential effects of motor cortex stimulation on unit activity of the ventral posterior lateral thalamic nucleus in the cat***

Sandra Kobaïter Maarrawi (Saint Joseph University of Beirut, Lebanon)

***The Protective Effects of Selenium on Oxidative Stress Induced by Waterpipe (Narghile) Smoke in Lungs and Liver of Mice***

Mohamad Charab (Beirut Arab University & Al-Iman Schools, Lebanon); Noura S. Abouzeinab and Mohamed Moustafa (Beirut Arab University, Lebanon)

***Magneto-Fluorescent Iron Oxide Nanoparticles for Drug Delivery to Human Acute Myeloid Leukemia***

Daniel Azar (Lebanese American University, Lebanon); Kheireddine El-Boubbou (King Saud bin Abdulaziz University for Health Sciences & King Abdulaziz Medical City, Saudi Arabia); Ralph Abi Habib (Lebanese American University, Lebanon)

***Effect of Phenanthroline and Bipyridine Derivatives and their respective Ru(II) Metal Complexes on Human AML Cell Lines***

Daniel Azar, Rony Khnayzer, Mirvat El-Sibai El-Sibai and Ralph Abi Habib (Lebanese American University, Lebanon)

## **BIO18\_Biologie: Biological, Medical, Pharmaceutical, Health Sciences XVIII**

Room: USJ CSM C3

Chairs: Nassim Fares (University of Saint Joseph, Lebanon), Richard G. Maroun (Université Saint Joseph de Beyrouth, Lebanon)

***The association between ACE I/D polymorphism and the risk of Alzheimer's disease in Lebanon***

Niveen Masri (Beirut Arab University, Lebanon); Fatima Saleh (BAU, Lebanon); Rajaa Fakhoury (Beirut Arab University, Lebanon)

***Pathophysiology of Morbus Niemann-Pick Type C1:***

Mohammad Hassan Hodroj and Katia Maalouf (LAU, Lebanon); Anibh Daas (Hannover Medical School, Germany); Hassan Naim (Tiho-Hannover, Germany); Sandra Rizk (Lebanese American University, Lebanon)

***Initial Results of the Pilot Lebanese GENetic Disorders (LEGEND) Project***

Ghazi Tadmouri (Faculty of Public Health, Jinan University, Lebanon)

***RAC1 expression and role in IL-1 $\beta$  production and oxidative stress generation in familial Mediterranean fever (FMF) patients***

Jose Noel Ibrahim and Rania Jounblat (Lebanese University, Lebanon); Nadine Jalkh and Joelle Abou-Ghoch (Unité de Génétique Médicale, USJ, Lebanon); Cynthia El Hajjeh (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)

***miRNA Expression Profile Analysis of Lebanese Breast Cancer Tissues***

Farah Nassar, Rabih Talhouk, Nathalie Zgheib, Maya El Sabban, Arafat Tfayli, Fouad Boulos and Mark Jabbour (American University of Beirut, Lebanon); Claude Chelala (Queen Mary University of London, United Kingdom); Rose-Mary Boustany, Nagi El



Saghir and Ali Bazarbachi (American University of Beirut, Lebanon); George Calin (University of Texas MD Anderson Cancer Center, USA); Rihab Nasr (American University of Beirut, Lebanon)

## **ENG11\_MEC: Engineering XI**

Room: USJ CSH 208

Chairs: Hadi Y. Kanaan (Saint-Joseph University, Lebanon), Sandy Rihana (Holy Spirit University of Kaslik, Lebanon)

### ***Hot Stamping Process: Estimation of Heat Transfer Coefficients during Different Phases***

Bakri Abdul Hay (LIU, Lebanon); Omar Melhem, Carole Challita, Chady Maatouk and Hasan Al Chami (Lebanese International University, Lebanon)

### ***Design and Implementation of Supercritical/Transcritical CO<sub>2</sub> Combined Cycle***

Ibrahim El Houssein, Omar Melhem and Abdallah Al Sharif (Lebanese International University, Lebanon); Bakri Abdul Hay (LIU, Lebanon); Carole Challita (Lebanese International University, Lebanon)

### ***Investigation into Sea-water Desalination Using the Freezing and Melting Technique***

Amer Farhat (Rafik Hariri University, Lebanon)

### ***Cooling Photovoltaic Panels Using Phase Change Materials***

Ibrahim Houmani, Hussein Farhat, Wassim Salameh and Ali H Assi (Lebanese International University, Lebanon); Mohamad S Hammoud (Lebanese International University (LIU), Lebanon)

### ***Power from PVs Installed along the Lebanese High-ways***

Karim Rammal and Hikmat Ghabris (Lebanese International University, Lebanon); Mohamad S Hammoud (Lebanese International University (LIU), Lebanon); Ali H Assi and Wassim Salameh (Lebanese International University, Lebanon)

### ***Modeling of 3D elastic properties and ultimate strengths for tri-axially braided composites***

Ali Ismail, Mohamad Ismail and Ali Hallal (Lebanese International University, Lebanon); Mohamad S Hammoud (Lebanese International University (LIU), Lebanon); Mehdi Chouman (Lebanese International University, Lebanon)

### ***Building PV-operated Electric Tricycle***

Saleh Alshoufi, Wissam AlMasri, Wafi Abou Rafeh and Wassim Salameh (Lebanese International University, Lebanon); Ali Shaito (Lebanese International University (LIU), Lebanon); Ali H Assi, Ali Badran, Ahmad Bizri and Mohammad Hallal (Lebanese International University, Lebanon); Rabih Rammal (LIU, Lebanon)

## **FEA5\_FSEC: Food security, Environment, Agriculture V**

Room: USJ CSH 305

Chairs: Marc Beyrouthy (Holy Spirit University - Kaslik, Lebanon), Dominique Salameh (Faculté des Sciences, Université Saint-Joseph, Lebanon)

***Testing of Genetically Modified Organisms (GMOs) in Food Setting Up the Appropriate Sampling Strategy in the Lebanese Market and Optimizing the DNA Extraction Protocol***

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

***Solubilité en phase aqueuse du 4-tert-octylphénol contaminant de l'emballage alimentaire. Prédiction du facteur de bioconcentration***

Joseph Saab (Université Saint-Esprit de Kaslik & Faculty of Sciences, Lebanon); Hanane Ishak (USEK, Lebanon); Christelle Goutaudier (Lyon, France); Ilham Mokbel and Jacques Jose (Université Claude Bernard Lyon1, France)

***Capacity building and sustainable management of water resources in Lebanon***

Talal Darwish and 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)

***Hyssop, *Hyssopus officinalis*, a natural plant extract limiting aflatoxin production by *Aspergillus flavus****

Rhoda EL Khoury (Saint-Joseph University, Lebanon); Isaura Caceres (INRA, France); Andre EL Khoury (Saint-Joseph University, Lebanon); Ali Atoui (CNRS, Lebanon); Jean-Denis Bailly, Olivier Puel and Isabelle Oswald (INRA, France)

***The disruption of *patL*, the patulin specific transcription factor affects *Penicillium expansum* virulence on apples***

Joanna Tannous (Saint-Joseph University, Lebanon); Selma Snini (INRA, France); Rhoda EL Khoury (Saint-Joseph University, Lebanon); Yannick Lippi (INRA, France); Andre EL Khoury (Saint-Joseph University, Lebanon); Ali Atoui (CNRS, Lebanon); Roger Lteif (Université Saint-Joseph, Lebanon); Isabelle Oswald and Olivier Puel (INRA, France)

***Characterization and traceability of matrices rich in triacylglycerols using an isotopomic approach***

Noelle Merchak (University of Saint Joseph, Lebanon); Joseph Bejjani (Saint Joseph University of Beirut, Lebanon); Toufic Rizk (Université Saint Joseph, Lebanon); Serge Akoka, Gerald Remaud and Virginie Silvestre (University of Nantes, France)

## **MCS4\_math: Mathematics and Computer Sciences IV**

Room: USJ CSH 306

Chairs: Dany Mezher (Saint Joseph University, Lebanon), Ahmad M. Shahin (Lebanese University, Lebanon)

***Conformal Clifford Algebras and Image Viewpoints Orbit***

Ghina El Mir (University of Balamand & Saint-Joseph University, Lebanon)

***A Triangle Analog To Pascal's Characterizing Primes***

Issam Kaddoura (Lebanese International University, Lebanon)

***Constructing Alyapunov Function To Study The Van Der Pol Equation***

Issam Kaddoura (Lebanese International University, Lebanon)

***An Interactive Workspace for helping Visually Impaired in Learning Linear Algebra***

Bassam Almasri (BAU, Lebanon); Islam Elkabani (Beirut Arab University, Mathematics and Computer Science Department, Lebanon); Rached Zantout (Rafik Hariri University, Lebanon)

***Simon Torsion Theory***

Simon Bechara (Lebanon, Lebanon)

**SOC 3: Social, Economic and Behavioral Sciences III**

Room: USJ CSM Amphi A

Chairs: Christine Babikian (Université Saint Joseph, Lebanon), Christophe Varin (Université Saint Joseph, Lebanon)

***Le Confessionnalisme Budgétaire et Fiscal***

Georges Haddad, El (Saint-Joseph University, Lebanon)

***Les défaillances de l'Etat dans la production et la gestion de l'espace socioéconomique au Liban: la prééminence du quartier sur la métropole***

Nizar Hariri (Saint Joseph University & Association Libanaise Pour l'Economie Sociale, Lebanon)

***L'émergence d'une norme de tolérance de la corruption au Liban***

Sarah Hariri Haykal (Saint Joseph University, Lebanon)

***The Attractiveness of Family Owned Businesses From a Career Development Perspective: Perceptions of Fresh Graduates and Experienced Employees***

Jamil Hammoud (Rafik Hariri University, Lebanon); Marwan Kotob (Rafic Hariri University, Lebanon)

***The Social and Economic Consequences of Syrian Refugees on Lebanon***

Georges Masse (AUST, Lebanon)

**Conf: Scopus: The leading gateway to the world of research, bibliometrics and university rankings**

**Dr. Basak Candemir**

Room: USJ Salle Zaarour

**18:00 - 19:00**

**Cloture: Cloture**

Room: Campus des Sciences Humaines, Amphithéâtre Pierre Y. Aboukhater; USJ CSM