

Program

International Conference for Engineering Sciences for Biology and Medicine

November 29- December 1st 2013, Mahdia – Tunisia

Friday November 29:

8h30-9h30 *Registration*

10h00-10h30 Coffee break

10h30-11h00 *Opening Ceremony*

Chairman Mounir BEN AYED

11h00-12h30 Constantinos PATTICHIS *Mobile Health and Video Systems Cardiovascular Informatics and Risk Prediction*

12h30: Lunch

Session 1: Mathematics in Biology and Medicine

Chairman Ahmed REBAI

14h00-14h35 **Farouk CHERIF** *Neural networks and oscillations*
14h35-15h10 **Gregory NUEL** *Estimating Intervention Effects in Gene Expression from a Mixture of Observational and Interventional Experiments*
15h10-15h25 **M. KAMMOUN** *New concepts in experimental designs*
15h25-15h40 **F. MALLOULI** *Iris Localization using General Distribution Mixture Model in the Segmentation Process*
15h40-15h55 **A. MESSAOUDI** *Molecular Docking Study of Calmodulin (CAM) in complex with small molecule ligands based on TFP and Phenothiazine*
15h55-16h10 **F. ZOUARI** *Statistical methods for biological data analysis Anti FIIa assessment of enoxaparin in pharmaceutical formulation*

Coffee break and poster viewing

Chairman Afif MASMOUDI

16h30-16h45 **O. BEN SALEM** *Aflatoxin contamination of marketed sorghum*
16h45-17h00 **N. JEBABLI** *Population pharmacokinetics models in clinical Practice*
17h00-17h15 **M. CHOURA** *Unraveling the human NR-RTK network by integrative approach*
17h15-17h30 **A.N. SAVOSTYANOV** *Advanced ElectroEncephaloGramm processing: Application of EEG Component Selection for study of the brain activity related with motor control in the Russian and Tuva's participants*
17h30-17h45 **A. B. MRAD** *Prostate cancer diagnosis based on probabilistic evidence for propagating observations on continuous variables in Bayesian networks*

Saturday November 30:

Session 2: Physics and Chemistry in Biology and Medicine

Chairman Ramzi MAALEJ

8h30-9h05	Hafedh BEN OUADA	<i>Transduction for biosensors devices</i>
9h05-9h40	Michael CANVA	<i>Plasmonic Imaging and BioMedical Applications</i>
9h40-10h15	Nabil MAALEJ	<i>Nanoparticles for Cancer Cell Imaging and Killing</i>

Coffee break and poster viewing

Chairman Hafedh BEN OUADA

10h30-11h05	Fabrice NAVARRO	<i>Lipid nanoparticles (Lipidots) for biotechnological and biomedical applications</i>
11h05-11h20	I. CHAKCHOUK	<i>NADf chip, a two-color microarray for simultaneous screening of multi-gene mutations associated with hearing impairment in the North Africa</i>
11h20-11h35	N. Daly	<i>Antioxidant properties of two species of medicinal plants of sweet clover grown in Tunisia. Analysis of their oil extracts</i>
11h35-11h50	A. SASSI	<i>Development and validation of an hplc assay to determine halofuginone in human urethra</i>
11h50-12h05	W. LOUED	<i>Effects of annealing atmosphere of PLA on optical, structural and morphological properties</i>
12h05-12h20	N. HAMZA	<i>Study of the photoluminescence of Er³⁺ doped GaN thin films</i>
12h20-12h35	R. LACHHEB	<i>Characterization of Tm³⁺ doped TNZL glass laser material</i>

12h35: Lunch

Chairman Michael CANVA

14h00-14h35	Najoua KAMOUN	<i>Synthesis and characterization of oxides, application in medicine</i>
14h35-15h10	Ali OTHMANE	<i>Biosensors and their Applications in the Biomedical and Environmental Fields</i>
15h10-15h45	M. MASSAOUD	<i>Flexible sensors for real-time monitoring of moisture levels in wound dressing</i>
15h45-16h00	S. BOULILA	<i>Detoxification of rats subjected to nickel chloride by a biomaterial-based carbonated orthophosphate: Physiological and 2hysic-chemical effects explorations of substitutions</i>

Coffee break and poster viewing

Chairman Nabil MAALEJ

- 16h15-16h30 **R. SALHI** *Preparation and characterization of aerosol MOCVD erbium doped alumina-ytria oxide films for solar spectrum conversion*
- 16h30-16h45 **T. KALLEL** *Optical spectroscopy of Yb³⁺ ions in CaF₂ transparent ceramics for high power lasers*
- 16h45-1700h **M. KOUBAA** *Design of biosensors based on MWCNTS for electrochemical DNA detection*
- 1700h-17h15 **R. HAKIM** *Growth, optical spectroscopy and Judd–Ofelt analysis of Pr-doped BaY₂F₈ monocrystals*
- 17h15-17h30 **A. BELGUTH** *Judd-Ofelt analysis of spectroscopic properties of Tm³⁺ ions in KYF₄ monocrystals*
- 17h30-17h45 **K. DAMAK** *Spectroscopic and luminescence characteristics of Erbium doped tellurite glass for lasing materials and green LEDs*

Sunday December 1st:

Session 3: Computer science in Biology and Medicine

Chairman Salma JAMOUSSE

- 8h30-9h05 **Mohamed ELATI** *Reconstruction and interrogation of biological networks*
- 9h05-9h20 **A. KSOURI** *Scorpion-toxin Nanobody binders: Immunoinformatic review and structural analysis of VHH sequence variability*
- 9h20-9h35 **A. BRAHMI** *Evaluating clinical DSS temporal visualisations*
- 9h35-9h50 **H. TURKI** *Using Dynamic Bayesian Networks for the prediction of mental deficiency in children*
- 9h50-10h05 **K. GHEDIRA** *Designing a portal for the meta-analysis of high-throughput data suitable for analysis of Trypanosomatidae*

Coffee break and poster viewing

Chairman Hassen HADJKACEM

- 10h20-10h35 **A. GHOUILA** *EuPathDomains: The divergent domain database for eukaryotic pathogens*
- 10h35-10h50 **H. NJAH** *A New Perspective For Classifying Biological Data*
- 10h50-11h05 **S. REGAIEG** *A novel Gene Regulatory Network Construction Method for Microarray Data*
- 11h05-11h20 **M. C. KARRAY** *A Study of Key Genes' Behavior for Amyotrophic Lateral Sclerosis Disease*
- 11h20-11h35 **I. RAHMANY** *Detection of intracranial aneurysms in angiographic images*
- 11h35-11h50 **L. ROMDHANE** *Bioinformatic approach for genodermatosis genes study*
- 11h50-12h05 **N. B. HAMAD** *A new approach for automatic microcalcification detection based on mixture parametric distributions*

12h05: Cloture and departure of participants