3rd International Conference on

MEDICAL PHYSICS & BIOMEDICAL ENGINEERING



Hosting Organizations: Conference Series LLC

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Conference Series Ltd

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conferenceseries.com 09:30-10:00

Opening Ceremony

Keynote Forum

10:00-10:50 Title: Therapeutic and Diagnostic Uses of Electromagnetic Energy and Emerging Medical Technologies from an Engineering Perspective

D. V. Giri, University of New Mexico, Mexico

Panel Discussion

Networking & Refreshments break 10:50-11:10 @ Colon

11:10-12:00 Title: The Particle Therapy Experience and Recent Developments

Susan B.Klein, Indiana University Bloomington, USA

12:00-12:50 Title: Monoolein-based nanocarriers for medical applications Maria Elisabete C. D. Real Oliveira, Minho University, Portugal

Panel Discussion Photo Session 12:50-12:55

Lunch Break 12:55-13:55 @ La Terraza

Sessions:

17:40-18:05

BioMedical Device Engineering | Bio Engineering | Radiation Oncology | Clinical Physics and Patient Safety | Biophysics | Bio Mechanics | Biomedical Physics | Dosimetry

Session Chair: Susan B.Klein, Indiana University Bloomington, USA Session Co-chair: Peter Ertl, Vienna University of Technology, Austria	
	Session Introduction 13:55-14:00
14:00-14:25	Title: Evaluation of Different Knee Joint Kinematic Models
	Marta Drazkowska, Poznan University of Technology, Poland
14:25-14:50	Title: Potential use of fluoride nanoparticles and rare earth doped fluoride nanoparticles in biomedicine (photodynamic therapy): cytotoxicity and photoinduced toxicity
	Maksim Pudovkin, Kazan Federal University,Russia
14:50-15:15	Title: Medical Physics and Communication: Cool Hand Luke?
	Richard L. Morin, Mayo Clinic Jacksonville, USA
15:15-15:40	Title: Evaluation of Mental Stress by Measuring Four Physiological Signals Simultaneously
	Rabah Al abdi, Jordan University of Science and Technology, Jordan
15:40-16:05	Title: Galvanic skin response and serum orexin A levels in humans increase during aerobic exercise
	Giovannai Messina, University of Foggia, Italy
	Networking and Refreshments Break: 16:05-16:25 @ Colon
16:25-16:50	Title: Extensibility of the supraspinatus muscle is affected by intramuscular fat
	Hugo Giambini, Mayo Clinic, USA
16:50-17:15	Title: 1H NMR based metabolomic approach to monitoring of the head and neck cancer treatment toxicity
	Lukasz Boguszewicz , Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology, Poland
17:15-17:40	Tittle: Radiation induced Polymerization of N-(Hydroxymethyl) Acrylamide Polymer Gel Dosimeters for Radiation Therapy
	Khalid Rabaeh, Hashemite University, Jordan
17.40_18.05	Title: Regional Assessment of Ventricular Hypokinesia by Magnetic Resonance Imaging (MRI)

Panel Discussion

Narjes Benameur, University of Tunis El Manar, Tunisia

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Keynote Forum

10:00-10:50 Title: Monitoring onset of bone healing kinetics and early transplant rejection using implantable titanium dioxide-coated bioimpedance sensors

Peter Ertl, Vienna University of Technology, Austria

Networking and Refreshments Break: 10:50-11:10 @ Colon

11:10-12:00 Title: Metrological approach in medical measurements

Baki karaboce, National Metrology Institute of Turkey, Turkey

Sessions:

BioMedical Device Engineering | Biomaterials and Artificial organs | Biomedical Engineering and Cancer | Clinical Physics and Patient Safety | Radiology

Session Chair: D. V. Giri, University of New Mexico, Mexico

Session Chair: D. V. Giri, University of New Mexico, Mexico		
Session Co-chair: Baki karaboce, National Metrology Institute of Turkey, Turkey		
	Session Introduction 12:00-12:05	
12:05-12:30	Title:Radiation therapy in a world of alternative treatments	
	Susan B.Klein, Indiana University Bloomington, USA	
12:30-12:55	Title: Device-free generation of hydrogen peroxide for promoting angiogenesis by coupling Mg and Ti alloy	
	Myoung-Ryul ok, Korea Institute of Science & Technology, S. korea	
	Lunch Break 12:55-13:55 @ La Terraza	
13:55-14:20	Title: Tissue engineering solutions to enhance osseointegration process of the dental implants	
	Aseel Al Jaboori, Leeds university, UK	
14:20-14:45	Title: Analysis of dosimetric properties of alanine/epr system for low dose radiations used in	
	radiotherapy	
	Abdoul Karim Mamadou Saidou, Hassan I University , Morocco	
14:45-15:10	Title: Analysis of the Spectroscopic Aspects of the Cationic Dye Basic Orange 21 in bulk, and	
	particularly in leukocytes	
	Zehavit Eizig, Bar Ilan University, Israel	
	Title: Tamoxifen's antiproliferative effects on estrogen positive and triple negative Breast cancer	
15:10-15:35		
	Reza zohdi Aghdam, Urmia University of Medical Sciences, Iran	
15:35-16:00	Title: Manufacturing and characterization of poly(3-hydroxybutyrate)/ multiwalled carbon	
15:35-16:00	nanotubes nanocomposite scaffold for tissue engineering application Moein Zarei, Islamic Azad University, Iran	
	Networking and Refreshments Break: 16:00-16:20 @ Colon	
	Title: Voxel-based finite element model of a reconstructed bone: simulating a bone tumor surgery	
16:20-16:45	Azadeh Ghouchani, Amirkabir University of Technology, Iran	
	Poster presentations 16:50-17:50	
BMMP 01	Title: Sub-Micron Surface Plasmon Biosensors for Glucose Concentration Assessment	
	Susan B.Klein, Indiana University Bloomington, USA	
BMMP 02	Title: The 'nanotherapy' revolution: three different apllications of lipid nanosystems in	
	therapeutics	
	Maria Elisabete C. D. Real Oliveira, Minho University, Portugal	
	Title: Service agreements, economic value perceived by biomedical engineers and health	
BMMP 03	administrators in the adoption of service agreements for small capital medical equipment	
	Suzanne Battaglia, Medtronic International Trading Sárl, Swizerland	
	Title: DNA as a Catalyst in Redox, Photoinduced Proceses and Nanoscale Energy Transfer	
BMMP 04	Tamar Giorgadze, Javakhishvili Tbilisi State University, Georgia	
	Title: The determination of plasmatic activity of butyrylcholinesterase using screen printed	
BMMP 05	voltammetric sensors	
	Miroslav Pohanka, Universtiy of Defence, Czech Republic	
BMMP 06	Title: Biochemical and physicochemical study of a virgin oil of Pistacia lentiscus fruits and	
	determination of its effects on blood parameters	
	Merzougui Imene, Badji Mokhtar University, Algeria	
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Panel Discussions

Awards & Closing Ceremony