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792nd Conference

Scientific Program

3rd International Conference on

Medical Physics & Biomedical Engineering

November 07-08, 2016 Barcelona, Spain



Hosting Organizations: Conference Series LLC
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Day 1 November 07, 2016

09:00-09:30 Registrations

LLOBREGAT

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:
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 Sklodowska-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)**
Narjes Benameur, University of Tunis El Manar,Tunisia

Panel Discussion

Day 2 November 08, 2016

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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 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: Hyperthermia improves the chemopreventive effects of tamoxifen in the treatment of triple-negative breast cancer**
Zhaleh behrouzkia, Urmia University of Medical Sciences, IranSS

15:10-15:35 **Title: Tamoxifen's antiproliferative effects on estrogen positive and triple negative Breast cancer**
Reza zohdi Aghdam, Urmia University of Medical Sciences, Iran

15:35-16:00 **Title: Manufacturing and characterization of poly(3-hydroxybutyrate)/ multiwalled carbon nanotubes nanocomposite scaffold for tissue engineering application**
Moein Zarei, Islamic Azad University, Iran

Networking and Refreshments Break: 16:00-16:20 @ Colon

16:20-16:45 **Title: Voxel-based finite element model of a reconstructed bone: simulating a bone tumor surgery**
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

BMMP-03 **Title: Service agreements, economic value perceived by biomedical engineers and health administrators in the adoption of service agreements for small capital medical equipment**
Suzanne Battaglia, Medtronic International Trading Sárl, Swizerland

BMMP-04 **Title: DNA as a Catalyst in Redox, Photoinduced Proceses and Nanoscale Energy Transfer**
Tamar Giorgadze, Javakhishvili Tbilisi State University, Georgia

BMMP-05	**Title: The determination of plasmatic activity of butyrylcholinesterase using screen printed 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

Panel Discussions

Awards & Closing Ceremony

Bookmark your dates

4th International conference on

Medical Physics and Biomedical Engineering

August 29-30, 2017 London, UK

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