

Programme

20th International Biomedical Science and Technology Symposium (BIOMED 2014)

August 24-27, 2014,

Meeting Site: Köyceğiz Halk Eğitim Merkezi
Köyceğiz, Muğla, Turkey

24 August 2014 **SUNDAY**

- 16.00 Registration: Halk Eğitim Merkezi
18.00 Opening / Welcome

Opening Session

Chair: James C. Kirkpatrick, Germany

- 18.30-19.00 "The origins and evolution of controlled drug delivery systems",
Allan S. Hoffman, University of Washington, Seattle, USA
- 19.00-19.30 "Smart polymers with self-assembling properties: A challenging contribution
to the design of drug delivery systems and polymer drugs",
Julio San Roman, B.Vazquez, M.R.Aguilar, L. Rojo, L. García, Institute of Polymers,
CSIC & CIBER-BBN, Madrid, Spain
- 20.00 **Welcome:** Food - Drinks - Music at **Kaunos Hotel**

25 August 2014 **MONDAY**

Session 1 **Chair:** Julio San Roman, Spain

- 08.30-09.00 "Complex cellular models to study nanoparticle interaction with blood-brain barrier",
James C. Kirkpatrick, Johannes Gutenberg University, Mainz, Germany
- 09.00-09.25 "Blood flow and interface interaction with medical devices",
Khosrow Mottaghy, Universitätsklinikum RWTH Aachen, Aachen, Germany
- 09.25-09.50 "The influence of inflammatory cells on the in vivo tissue vascularization",
Shahram Ghanaati, The Goethe University, Frankfurt am Main, Germany
- 09.50-10.15 "Plasma proteins vs extracellular matrix proteins in EC-material interaction",
Lyuba Mikhalovsky, University of Brighton, Brighton, UK

- 10.15-10.45 Coffee Break**
- Session 2 Chair: Khosrow Mottaghy, Germany**
- 10.45-11.15 “Cells encapsulation and printing”,
Claudio Migliaresi, N. Cagol, L. Gasperini, V. Liaudanskaya, D. Manigliio, A. Motta,
University of Trento, Trento, Italy
- 11.15-11.40 “Mechanical signals and cellular functions”,
Yannis Missirlis, University of Patras, Patras, Greece
- 11.40-12.05 “Control of cell alignment within tissue engineering 3D hydrogels and
in injury models”,
Ying Yang, Keele University, Stoke-on-Trent, UK
- 12.05-12.30 “Three-dimensional tissue/organ bio-printing”,
Bahattin Koç, S.B. Ozler, C. Kucukgul, F. Hafezi, M. Altunbek, G. Kuku, M. Culha Sabancı
University, İstanbul, Turkey; Yeditepe University, İstanbul, Turkey
- 12.30-13.30 Lunch / POSTERS 1**

26 August 2014 TUESDAY

- Session 3 Chair: Yannis Missirlis, Greece**
- 08.30-09.00 Endogenous versus exogenous approach to regenerate intervertebral disc damage”,
Mauro Alini, AO Research Institute, Davos, Switzerland
- 09.00-09.30 "Structural design and functional modification of vascular grafts"
Deling Kong, Nankai University, Tianjin, China
- 09.30-10.00 “Nanostructured wound dressing materials”,
A. Akhmetova, T. Nurgozhin, I.U. Allan, M. Illsley, R. Shevchenko, **Sergey Mikhailovsky**
Nazarbayev University, Astana, Kazakhstan; University of Brighton, Brighton, UK
- 10.00-10.25 “Animal models mimicking maxillofacial disorders”,
İbrahim Vargel, Hacettepe University, Ankara, Turkey
- 10.25-10.55 Coffee Break**
- Session 4 Chair: Deling Kong, China**
- 10.55-11.20 “Importance of composites in medical applications”,
Nesrin Hasırcı, METU, Ankara, Turkey
- 11.20-11.40 “Fabrication of scaffolds from bioactive glass for bone tissue engineering”,
Sevil Yücel, A.C. Özarslan, S. Beklevicuylassı, B. Karakuzu,
Yıldız Technical University, İstanbul, Turkey
- 11.40-12.00 “Electrospun matrices as tissue engineering scaffolds”,
Kadriye Tuzlakoğlu, Yalova University, Yalova, Turkey
- 12.00-12.15 “Hydroxyapatite bioceramic production from natural calcitic sources”,
Faik N. Oktar, Y. M. Sahin, O. Gunduz, B. Ben-Nissan
Marmara University, İstanbul, Turkey; İstanbul Arel University, İstanbul, Turkey;
The University of Technology, Sydney, Australia

- 12.15-12.30 "Hydroxyapatite based bioceramics",
Y. Müge Şahin, F.N. Oktar, O. Gündüz, M. Yetmez
İstanbul Arel University, Istanbul, Turkey, Marmara University, Istanbul, Turkey,
Bülent Ecevit University, Zonguldak, Turkey
- 12.30-14.30 **Lunch / POSTERS 2**

27 August 2014 **WEDNESDAY**

Session 5 Chair: **Sergey Mikhailovsky**, UK - Kazakhstan

- 08.30-09.00 "Functional Optical Brain Imager (fNIR): A case study in commercialization of academic innovation",
Banu Onaral, Drexel University, Philadelphia, PA, USA
- 09.00-09.20 "Immunosuppressive properties of mesenchymal stem cells: Bench to bedside",
Erdal Karagöz, Kocaeli University, İzmit, Kocaeli, Turkey
- 09.20-09.40 "Extracellular matrix microenvironment regulates stem cell fate",
Murat Elçin, Ankara University, Ankara, Turkey
- 09.40-10.00 "Biomechanical cues enhance myogenesis of adipose derived stem cells",
Pinar Yilgor Huri, C.A. Cook, D.J. DiGirolamo, W.L. Grayson
Johns Hopkins University, Baltimore, MD, USA

10.00-10.30 **Coffee Break**

Session 6 Chair: **Claudio Migliaresi**, Italy

- 10.30-10.50 "New drug targets for metastatic breast cancer",
Ayşe Kevser Özden, Hacettepe University, Ankara, Turkey
- 10.50-11.10 "Gelatin-hydroxyapatite cryogels with bone morphogenetic protein-2 and transforming growth factor beta-1 for calvarial defects"
İ. İnci, **Sedat Odabas**, İ. Vargel, E. Güzel, P. Korkusuz, T. Çavuşoğlu, H. Kirsebom, H.H. Celik, F. Demirkazik, B. Mattiasson, E. Piskin, Hacettepe University, Ankara, Turkey; Ankara University, Ankara, Turkey; Istanbul University, Istanbul, Turkey; Memorial Hospital, Ankara, Turkey; Lund University, Lund, Sweden
- 11.10-11.30 "Targeted X-ray imaging of breast cancer using bombesin-gold nanoparticles conjugate as a contrast agent in mouse model",
Mojtaba Salouti, Islamic Azad University, Zanjan, Iran
- 11.30-11.50 "Cryogels as biomaterials",
A.Kumar, **Sinan Eğri**, N. Bölgen, Indian Institute of Technology Kanpur, Kanpur, UP, India; Gaziosmanpaşa University, Tokat, Turkey; Mersin University, Mersin, Turkey
- 11.50-12.10 "Plasma treated biomaterial surfaces",
Hilal Şaşmazel Türkoğlu, Atılım University, Ankara, Turkey
- 12.10-12.30 "Interaction of nondegradable, stiff hydrophobic polymers with human osteoblast like cells",
O. Hasturk, **Menekşe Ermiş**, P. Chen, U. Demirci, V. Hasırcı, METU, Ankara, Turkey; Stanford University, CA, 94304, USA
- 12.30-13.30 **Lunch / POSTERS 3 - Closing Remarks**