



M-BIO 2017

Bio-medical Applications of
Magnetic **Nano**-particles



11-12 SEPTEMBER 2017

Gebze, TURKEY

Scientific Program

Day 1: (11.09.2017) GTÜ - Conference Hall –

Molecular Biology and Genetics Department

09:00-10:30 Registration and Coffee time

10:30-11:00 Opening Ceremony

Session 1 Chairman **F. Yıldız**

11:00-12:30 **Alberto CURCIO** / Synthesis and Characterization of
Nanoparticles

12:30-14:00 Lunch

Session 2: Chairman **A. Curcio**

14:00-15:15 **Sandhya MOISE** / Medical Applications of Nanoparticles

15:15-15:30 Coffee Break

15:30-16:30 **Mustafa ÇULHA** / Influence of Surface Chemistry on Toxicity of
Metal Oxide Nanoparticles

16:30-17:00 **Numan AKDOĞAN** / P



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Day 2: (12.09.2017) GTÜ - Conference Hall

Session 3: Chairman **S. Moise**

09:30-10:30 **Yu Hai-DONG** / Fundamentals and Biomedical Applications of
Magnetic Levitation

10:30-11:00 **Nurcan DOĞAN** / Biocompatible Magnetic Nanoparticles for
Medical Imaging

11:00-11:20 Coffee Break

11:20-11:40 **Musa Mutlu CAN** / Magnetic Structure of Ferrite Nanoparticles
and Usefulness of Ferrites in Hyperthermia

11:40-12:00 **Mustafa COŞKUN** / Dimercaptosuccinic acid (DMSA) coated
cubic magnetite nanoparticles: Synthesis, characterization and their potential
for hyperthermia

12:00-12:20 **Sanem ÖZAYRAL** / Combining doxorubicin and hyperthermia
increases cytotoxicity in HCT116 cells

12:20-13:30 Lunch

13:30-14:30 Poster Session

Session 4: Chairman **Y.H Dong**

14:30-15:00 **Mustafa EGİNLİGİL** / Light sensitive 2D materials/biomaterials
hybrid structures

15:00-15:40 **Lütfi ARDA** / Structural and Magnetic Properties of $Zn_{1-x-y}Mg_xAl_yO$ Nano Particles by Sol-Gel Process

15:40-16:00 **Ülkü SAYIN** / Importance of Combined EPR and DFT Analysis for Drug Delivery. A Key Study: Cu(II) complexes of 2-hydroxy-5-methoxyacetophenone thiosemicarbazone and its N(4)-substituted derivatives

16:00-16:20: Closing remarks



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Poster Presentations: 11-12.09.2017 GTÜ - Conference Hall

A1- Bio-medical applications of NiFe_2O_4 nanoparticles doped biocompatible hydrogels by electric and dielectric measurements / Orhan YALÇIN

A2 - Short-range dipolar and quadrupolar correlations in magnetic nanoparticles / Rıza ERDEM

A3 - Cr ion doped magnetic DNA nanowires / Caner DEĞER

A4 - Estimating risk of heart attack by thin film nanostructures / Can DAVUT

A5 - Nanoparticles for Anti-Cancer Applications / Ayşe ASLAN

A6 - **Kübra Elif ASAN** / Investigation of the Galium Nitrate (GaN) Thin Films by ESR Spectroscopy

.... to be updated