

ALI YASIN SONAY

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Language : Turkish (mother tongue), English (Advanced, TOEFL IBT Score 114/120)



Education

MSc. 2010- Biotechnology Graduate Program, Institute of Life Sciences Yeditepe University, Istanbul, Turkey (**CGPA: 3.92/4.00**)
BSc. 2006-2010 Department of Genetics and Bioengineering, Yeditepe University, Istanbul, Turkey (**CGPA: 3.42/4.00, 3rd ranking student**)

Publications

Ali Yasin Sonay, Burak Çağlayan and Mustafa Çulha August 2011
Au-Ag Core-Shell Nanoparticles Synthesized By Sandwiching Peptide-Dye Adducts between Gold and Silver Layers, in press, Plasmonics (impact factor: 3.5)

Ali Yasin Sonay, Kemal Keseroglu and Mustafa Culha Submitted
2D Gold Nanoparticle Structures Engineered Through DNA Tiles for Delivery

Research Experience

DNA Mediated Self Assembly of Carboxyl Functionalized Carbon Nanotubes November 2010-Present
Nanobiotechnology Laboratory, Yeditepe University

TUBITAK (The Scientific and Technological Research Council of Turkey) funded Project “Development of new methods for the controlled self-assembly of nanoparticles using weak molecular interactions in solutions and at interfaces”, Nanobiotechnology Laboratory, Yeditepe University August 2010-May 2011

Synthesizing peptide functionalized Au@Ag Core Shell Structures with unique plasmonic capacities, Nanobiotechnology Laboratory, Yeditepe University July 2010-March 2011

TUBITAK funded Project, “Modeling the Autoregulation of Elk-1 and its interaction partners by using COPASI”, Molecular Neurobiology Laboratory, Yeditepe University September 2009-June 2010

Internship, Çukurova University, “Determining the occurrence statistics of osteoporosis SNPs among post-menopause Turkish women” July 2009-September 2009

Teaching Experience

Head Teaching Assistant, GBE 301 Biochemistry I Laboratory	Spring 2011
Guest Lecturer, PHAR 422 Pharmaceutical Biotechnology	Spring 2011
Teaching Assistant, GBE 301 Biochemistry I Laboratory	Fall 2010

Awards and Honors

Yeditepe University 3. Ranking Graduate Student of Genetics and Bioengineering, Honor Degree	2010
Yeditepe University 100% Scholarship in Turkish National University Entrance Examination	2006-2010
TUBITAK Scholarship by The Department of Support for Scientist with the project "Modeling the Autoregulation of Elk-1 and its interaction partners by using COPASI"	September 2009-June 2010
Yeditepe University Master of Science in Biotechnology Program, Scholarship	September 2010-Present
TUBITAK Scholarship with the project "Development of new methods for the controlled self-assembly of nanoparticles using weak molecular interactions in solutions and at interfaces"	August 2010-Present

Research and Technical Skills

- ✦ Nanoparticle Synthesis and Modification
- ✦ Raman Spectroscopy, AFM, SEM
- ✦ Zeta-Sizer, UV/Vis Spectroscopy
- ✦ Convective Assembly
- ✦ Cloning, Gel Electrophoresis, Gel Extraction
- ✦ Primer Design, PCR
- ✦ RFLP
- ✦ Plasmid and Genomic DNA Isolation
- ✦ Transformation, Transfection
- ✦ Tissue and Cell Culture Techniques
- ✦ MTS/WST1 Assays
- ✦ Luciferase Assay
- ✦ Basic Biochemical and Microbial Techniques

Computer Skills

- ✦ MATLAB
- ✦ Microsoft Office Programs (Word, Excel, PowerPoint)
- ✦ COPASI (Complex Pathway Simulator)
- ✦ C++

Oral Presentations

Pittcon 2001, Pittsburgh Analytical Chemistry Conference, USA, Synthesis of Biomacromolecule Mediated Ag Au Core-Shell Nanoparticles and their Performance as SERS Labels , Ali Yasin Sonay, Burak Caglayan, Mehmet Kahraman, Mustafa Culha	March 2011
NanoTR-7 th Nanoscience and Nanotechnology Conference, Sabanci University, Istanbul, Turkey, Winning Against Contact-line Pinning , Mustafa Culha , Kemal Keseroglu, Ali Yasin Sonay, Sercan Keskin, Saban Kalay	June 2010

Poster Presentations

NanoTR-7 th Nanoscience and Nanotechnology Conference, Sabanci University, Istanbul, Turkey, Self Assembly of Carbon Nanotubes Using Dna Tiles , Ali Yasin Sonay , Sevcan Ayaksiz, Seda Demir, Mustafa Culha	June 2011
NanoTR-7 th Nanoscience and Nanotechnology Conference, Sabanci University, Istanbul, Turkey, Preparation of a Gold Nanoparticle Based Controlled Release Nanocarrier , Esen Efeoglu, Ali Yasin Sonay , Zehra Yilmaz, Ipek Celiksöz, Mustafa Culha	June 2011
NanoTR-7 th Nanoscience and Nanotechnology Conference, Sabanci University, Istanbul, Turkey, Identifying Molecular Composition Of Exosomes Using Raman Spectroscopy , Ahmet Burak Caglayan, Ali Yasin Sonay , Sami Agus, Mustafa Culha	June 2011

Attended Conferences and Workshops

Winter School on Frontiers in Nanomedicine and Nanobiotechnology, Bilkent University, Ankara, Turkey	January 2010
Workshop on Current Trends in Molecular Nanobiosciences, Bilkent University, Ankara, Turkey	January 2010
Workshop on Vibrational Spectroscopy in Nanotechnology. Yeditepe University, Istanbul, Turkey	June 2011
NanoTR-7 th Nanoscience and Nanotechnology Conference, Sabanci University, Istanbul, Turkey	June 2011

Administrative Experiences

Vice President of Biotechnology Society	2008-2009
Secretary of Biotechnology Society	2009-2010

Organized Seminars

Evolution and Philosophy Symposium, Yeditepe University, Istanbul	2009
1 st Student Biotechnology Congress, Yeditepe University, Istanbul	2010