

Programme

International Workshop on “Detection of Pathogenic Microorganisms: Probes, Platforms and Detectors (NanoBacterphageSERS 2014)

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

29 August 2014 **FRIDAY**

12.00 Registration: Halk Eğitim Eğitim Merkezi

Welcome

13.30-14.00 “Detection of pathogenic bacteria: Probes, platforms and dedectors”,
Erhan Pişkin, Hacettepe University, Ankara, Turkey

Session 1 Chair: **Barbaros Çetin**, Turkey

14.00-14.30 "Peptide-enabled, adaptable molecular nanobiosensors"
Mehmet Sarıkaya, University of Washington, Seattle, USA

14.30-15.00 “SPR and SERS technologies for advanced sensing and
imaging of biological agents”
Aykutlu Dana, Bilkent University, Ankara, Turkey

15.00-15.30 “Advanced electrochemical biosensors for detection of pathogens and toxins”
Arzum Erdem, Ege University, İzmir, Turkey

15.30-15.50 “Radiofrequency and medical applications”,
B. Nasser, **Yasemin Saygılı**, C. Yilmazer, Hacettepe University, Ankara, Turkey;
Gate Elektronik Sanayi ve Ticaret A.Ş., Ankara, Turkey

15.50-16.20 Coffee Break

Session 2 Chair: **Arzum Erdem**, Turkey

16.20-16.40 “Silicone Nanowire (SiNW) Biosensors”,
Bora Garipcan, Boğaziçi University, İstanbul, Turkey

16.40-17.00 "Photoresist technologies for nanomaterials"
Hakan Atasoy, Berlin, Germany

- 17.00-17.20 “Microfluidic bio-particle manipulation”
Barbaros Çetin, Bilkent University, Ankara, Turkey
- 17.20-17.40 “Bio-inspired surfaces for detection”
Gökhan Demirel, Gazi University, Ankara, Turkey
- 17.40-18.00 “Design and development of novel large scale applications in micro/nanophotonics”
Erol Özgür, Bilkent University, Ankara, Turkey
- 18.00-18.20 “Preparing affinity surfaces”
Sinan Eğri, Gaziosmanpaşa University - Biyomedtek, Tokat, Turkey
- 18.20-18.40 “Uni-directional gold and silver nanorod arrays as
Surface Enhanced Raman Spectroscopy (SERS) substrates”
Mehmet Yılmaz, E. Pişkin, G. Demirel, Hacettepe University, Ankara, Turkey;
Gazi University, Ankara, Turkey

30 August 2014 **SATURDAY**

Session 3 Chair: **Altunay Perendeci**, Turkey

- 08.30-09.00 “Detection of pathogens in food and environment”,
F. Yeşim Ekinci, Yeditepe University, İstanbul, Turkey
- 09.00-09.30 “Bacteriophage-our friends: Their selection and practical application
in different fields of science”,
Nina Chanishvili, M. Goderdzishvili, Eliava BioPreparations and Eliava Institute
of Bacteriophage, Microbiology & Virology, Tbilisi, Georgia
- 09.30-10.00 “The persistence of virulent, antibiotic resistant *Escherichia coli* O157
in environmental matrices and animal populations”
Ian Cooper, University of Brighton, Brighton, UK
- 10.00-10.30 “GB124 human-gut specific bacteriophage in water, shellfish and aquatic sediments”
Jonathan Caplin, University of Brighton, Brighton, UK
- 10.30-10.50 “Poly (ϵ -lysine) dendrons as modulators of quorum sensing, and alternatives to
conventional antibiotics for *Pseudomonas aeruginosa* infections”
Rafah Issa, S. Meikle, I. Cooper, University of Brighton, Brighton, UK
- 10.50-12.00 **Food and drinks - Posters - Closing Remarks**