

January 10th, 2010 — Sunday

15:30 - 18:00 **Registration**

January 11th, 2010 — Monday

09:00 - 09:30 **Opening/Welcome Remarks**
İhsan Gürsel (Chair, Org. Committee)
Hasan Erten (Dean, Science Faculty)

MORNING SESSION (Chair: Cevayir Çoban)

09:30 - 10:30 **Clotilde Thery (Paris, France)**
Exosomes in health and disease (Plenary Lecture)

10:30 - 10:50 **Coffee Break**

10:50 - 11:40 **Cevayir Çoban (Osaka, Japan)**
Innate immune system receptors and malaria

11:40 - 12:30 **Ijeoma Uchegbu (London, UK)**
Engineering nanomedicines for the delivery of drugs and genes

12:30 - 14:00 **LUNCH**

AFTERNOON SESSION (Chair: Ken J. Ishii)

14:00 - 14:50 **Ken J. Ishii (Osaka, Japan)**
DNA sensors: opportunities to develop novel DNA vaccines

14:50 - 15:40 **Saadi Khochbin (Grenoble, France)**
From sequence to function in the age of genomics

15:40 - 16:00 **Coffee Break**

16:00 - 16:50 **Hilmi Özçelik (Toronto, Canada)**
Discovery of genetic profiles using genome-wide technologies

17:30 - 19:00 **Welcome Cocktail**

January 12th, 2010 — Tuesday

MORNING SESSION (Chair: Mehmet Özsöz)

09:40 - 10:30 **Olga Mykhaylyk (Munich, Germany)**
Magnetofection: recent advances with magnetically guided nucleic acid delivery

10:30 - 11:20 **Mehmet Özsöz (İzmir, Turkey)**
Applications of DNA nanosensors

11:20 - 11:40 **Coffee Break**

11:40 - 12:30 **Vasif Hasırcı (Ankara, Turkey)**
Applications of nanobiomaterials in cell and tissue engineering

12:30 - 14:00 **LUNCH**

AFTERNOON SESSION (Chair: Hasan Bayram/Uygur Tazebay)

14:00 - 14:50 **Hasan Bayram (Gaziantep, Turkey)**
Health risks associated with nanoparticle inhalation

14:50 - 16:10 **Selected Short Communications (15. min each)**

Yekbun Adigüzel: Lipids as potential building blocks of the new era smart materials

Emine Şalva: Comparison of silencing effect of chitosan/shRNA complexes in different cell lines

Suna Özbaş Turan: Skin gene therapy using chitosan coated liposomes

Behnaz Shokouhi: Biomaterials cause dendritic cell malfunction by impinging on TLR-MyD88 signaling pathways: implications for in vivo implant failure

Metiner Tosun: A therapeutic target validation in vascular aging: Gene silencing and functional consequences

16:10 - 16:30 **Coffee Break**

16:30 - 17:20 **Engin U. Akkaya (Ankara, Turkey)**
Requirements for photo dynamic cancer therapy

January 13th, 2010 — Wednesday

MORNING SESSION (Chair: Mayda Gürsel)

09:40 - 10:30 **Batu Erman (Istanbul, Turkey)**
TCRs: Co-receptor tuning

10:30 - 11:20 **Can Akçalı (Ankara, Turkey)**
Application of biomaterials in stem cell research

11:20 - 12:00 **İhsan Gürsel (Ankara, Turkey)**
Liposomes: Versatile lipid vesicles for nanomedical applications

12:00 **Closing Remarks**

Afternoon-Social Program

Winter School on Frontiers in Nanomedicine and Nanobiotechnology