

Physical, Biological and Chemical Foundations of Bioelectronics, Biophotonics and Biosensors Schedule

| Time | Tuesday - 26.07. | Wednesday - 27.07. | Thursday - 28.07. | Friday - 29.07. |
|-------------|---|--|-------------------|--|
| 09:00-09:15 | Registration | | | |
| 09:15-09:30 | Opening | | | |
| 09:30-10:30 | John Errington - "Polyoxometalates in Biological Systems: What? Why? and How?"... | David Cahen - Proteins and peptides as electronic materials | Day off | Ilker Özden - Optogenetics and optoelectronic tools for controlling brain activity with light |
| 10:30-11:00 | Evren Mutlugün - Colloidal quantum dot based light harvesting and biosensing applications | Suna Timur - Integration of biomolecules to electrochemical and optical systems: 'The marriage of convenience | | Coskun Kocabas - TBA |
| 11:00-11:30 | Coffee break | Coffee break | | Coffee break |
| 11:30-12:00 | Selim Hanay - Single Molecule Analysis by Nano-Electromechanical Systems (NEMS) | Mustafa Culha - A Potential Technique for Cancer Diagnosis: Surface-enhanced Raman Scattering | | Mehmet Z. Baykara - Three Decades of Atomic Force Microscopy: Implications for Physics, Chemistry and Biology |
| 12:00-12:30 | Hakan Yıldız - Mobile Platform for Rapid Detection of Infectious Diseases at Resource Limited Settings | Bora Garipcan - Biomedical Applications of Graphene and its Derivatives | | Hasan Sahin - Computing Structural Changes in Schiff Base Molecular Assembly Initiated By STM Tip |
| 12:30-14:00 | Lunch | Lunch | | Lunch |
| 14:00-14:30 | Engin Durgun - Investigation of Optoelectronic Properties of 2D Materials by Ab Initio Methods | Selim Unlu - Digital detection of biomarkers for low-cost, high-sensitivity, multiplexed diagnostics | | Mehmet Sarıkaya - Molecular Biomimetics: Engineered Peptides for Bioelectronics and Biophotonics |
| 14:30-15:00 | Nejat Bulut - Common electronic mechanism for the functioning of metalloproteins and metalloenzymes | Devrim Pesen Okvur - Cells-on-chips: 2D and 3D Microenvironments | | |
| 15:00-15:30 | Poster Session | Urartu Seker - Genetically Encoded Conductive Synthetic Biofilms for Electrogenetic Transcription | | |
| 15:30-16:00 | Coffee break | Coffee break | | |
| 16:00-16:30 | | Cumhur Tekin - Single cell density profiling using magnetic levitation principle | | |
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