



H2020-FETOPEN-2014-2015-RIA

Agenda Workshop
“New approaches for single protein sequencing”
University of Barcelona
Faculty of Physics – Department of Condensed Matter Physics
C/ Martí i Franquès, 1 – 08028 Barcelona

Topic	Responsible	Time
Arrival and registration		9:00-9:15
Welcome and Opening	Project Coordinator- Introduction	9:15-9:30
Single-molecule trapping and sequencing in optical waveguides	1. Prof Meni Wanunu-	9:30-10:15
Protein identification using DNA nanotechnology and nanopores	2. Prof Dr Ulrich F. Keyser	10:15-10:45
Coffee Break		10:45– 11.15
Mechanical force and electric current measurement of single DNA molecules translocating across a nanocapillary	Felix Ritort	11.15 – 11.45
Feedback and open discussion	All participants	11:45-12:30
Lunch Break		12:30 – 14:00
“Nanopore translocation of knotted biopolymers”	3. Dr Cristian Micheletti	14:00-14:45
Dispersion in confined systems with geometric fluctuations	4. Dr David Dean	14:45-15:30
Coffee Break		15:30– 16:00
Feedback and open discussion	All participants	16:00- 17:30
End of Meeting		17.30
Gala dinner (Ca La Nuri Restaurant- Passeig Marítim de la Barceloneta, 55, 08005 Barcelona, Spain) 20:00		

Topic	Responsible	Time
Welcome and Opening	Project Coordinator	9:00-9:15
Protein fingerprinting using single-molecule fluorescence and nanopores	5. Prof Chirlmin Joo	9:15-10:00
Protein pores as nanoreactors for single-molecule covalent chemistry	6. Prof Hagan Bayley	10:00-10:45
Coffee Break		10:45 – 11.15
Single molecule protein sequencing by means of hybrid nanopores - a new concept	Denis Garoli	11.15 – 11.45
Feedback and open discussion	All participants	11:45-12:30
Lunch Break		12:30 – 14:00
Graphene nanopores and nanogaps with chemical approaches: from biomolecular detection to reverse electro dialysis	7. Prof Grégory Schneider	14:00-14:45
Fluorescence and FRET enhancement with metal nanostructures	8. Prof Jerome Wenger	14:45-15:30
Coffee Break		15:30-16:00
1. FRET-functionalization of aluminum surfaces 2. Dye-labeling of biological nanopores	Niko Hildebrandt- Alexandra Petreto- Thomas Plenat	16:00– 16:30
Feedback and open discussion	All participants	16:30-17:30
End of Meeting		17.30