

De la cellule à la molécule unique, Applications de la Microscopie à Force Atomique en Biologie

From single cell to single molecule, Atomic Force Microscopy for Biology

13-15 juin 2012 ■ Bordeaux, France

Wednesday, June 13th

13h00 - 15h00	Accueil des participants / Reception of participants
15h00 - 15h15	Welcome and presentation by the organizers
SESSION I	Eléments de Physico-Chimie pour l'AFM/ Physico-Chemistry elements for AFM Chaired by
15h15 - 16h00	Titre : Sandor Kasas
16h00 - 17h45	AFM tip functionalizations for molecular recognition measurements Emmanuelle Trévisiol
17h45 - 20h00	Poster Session Flash Presentations
20h00	Dîner / Dinner

Thursday, June 14th

07h30 - 08h30	Petit-déjeuner / Breakfast
SESSION II	De la cellule à la molécule unique / From single cell to single molecule
08h30 - 09h15	Exploring microbes at the nanoscale David Alsteens
09h15 - 10h00	Quantifying Bacterial Adhesion through AFM: Theory and Application Terry Camesano
10h00 - 10h30	Pause-café / Coffee break
10h30 - 11h15	Proteins view by nanopores: single molecule experiments Juan Pelta
11h15 - 12h00	Single molecule recognition force spectroscopy and recognition imaging Peter Hinterdorfer
12h00 - 14h00	Déjeuner / Lunch
SESSION III	L'AFM pour la biologie / AFM in Biology
14h00 - 16h00	JPK and Brucker Demonstration : Nanowizard 3 versus Catalyst
16h00 - 16h30	Pause / Coffee Break
16h30 - 17h15	Using AFM assays to explore: Cell Mechanics and the Biophysics of Membrane Proteins Daniel Mueller
17h15 - 18h15	Table ronde des intervenants Discussion ouverte / Speakers round table open discussion
19h30 - 22h30	Cocktail and dinner

Friday, June 15th

07h00 - 08h30	Petit-déjeuner / Breakfast
SESSION IV	Applications biomédicales de l'AFM / Biomedical Applications of AFM
08h30 - 09h15	Bacterial Architecture and Dynamics Simon Foster
09h15 - 10h00	Nanomechanics of blood vessels with a grain of salt Hans Oberleithner
10h00 - 10h30	Pause / Coffee Break
10h30 - 11h15	Titre : Ratnesh Lal
11h15 - 12h00	Concluding remarks Etienne Dague, Grégory Francius
12h00 - 13h30	Déjeuner / Lunch
14h00	Départ / Departure