

Inserm Workshop 252

Nanotechnologie des acides nucléiques et applications en biologie et médecine
DNA/RNA nanotechnology: biological and biomedical applications

26-28 septembre 2018 / September 26-28, 2018 ■ Bordeaux, France

Mercredi 26 septembre 2018 ■ **Wednesday September, 26th 2018**

14:30 - 15:15	Reception of participants
15:15 - 15:30	Welcome and presentation by the organizers
SESSION I	Engineering complex structures
15:30 - 17:00	Designing three-dimensional DNA architectures Yonggang Ke (Georgia Tech, USA)
17:00 - 17:30	Coffee break
17:30 - 19:00	RNA nanotechnology Kirill Afonin (UNC Charlotte, USA)
20:00	Dinner

Jeudi 27 septembre 2018 ■ **Thursday September, 27th 2018**

06:30 - 08:30	Breakfast
SESSION II	Devices for cell biology
08:30 - 10:00	DNA nanostructures with biological applications Björn Hogberg (Karolinska Institute, Stockholm, Suede)
10:00 - 10:30	Coffee break
10:30 - 12:00	DNA devices inside cells Mingxu You (UMass Amherst, USA)
12:00 - 14:00	Lunch

SESSION III	Detecting with nucleic acids
14:00 - 15:30	Aptamers Frédéric Ducongé (CEA, Fontenay-aux-Roses, France)
15:30 - 16:00	Coffee Break
16:00 - 17:30	DNA-based nanosensors Laura Na Liu (Max Planck Institute Stuttgart, Germany)
17:30 - 18:30	Ethical aspects of nucleic acid nanotechnology Bernadette Bensaude Vincent (Université Panthéon Sorbonne, Paris, France) TBA
19:30 - 20:15	Cocktail
20:15	Dinner

Vendredi 28 septembre 2018 ■ **Friday September, 28th 2018**

06:30 - 09:00	Breakfast
SESSION IV	Programming reaction networks
09:00 - 10:30	Programming reaction networks with nucleic acids Guillaume Gines (ESPCI, Paris, France)
10:30 - 11:00	Coffee Break
11:00 - 12:30	Next generation DNA synthesis Piet Herdewyn (KU Leuven, Belgium)
12:30 - 14:00	Lunch
14:00	Departure