Journée Scientifique Biomimétique pour la Reconnaissance Région Auvergne Rhône-Alpes

Thématiques : Bio-mimétisme, Reconnaissance, Biocapteurs, Chimie bio-inspirée, Nanocapteurs

Thursday 7th December 2023 at Minatec, CEA-Grenoble, 17 Rue de Martyrs, 38054 Grenoble

9h00 Welcome and coffee

9h30 - 9h40 Introduction

9h40 - 10h15 Eric Peyrin, DPM, CNRS/Univ. Grenoble Alpes

Aptaswitches for the design of small-molecule biosensors

10h15 - 10h35 Mathilde Manceau, ISA, CNRS/Univ. Claude Bernard Lyon 1

Bacterial membrane nanosomes for screening B. cereus-specific aptamers by surface plasmon resonance imaging

10h35 - 10h55 Kuntheak Kheng, PHELIQS, CEA/ Univ. Grenoble Alpes

Hybrid plasmonic dimer assembled by DNA to enhance an emitter fluorescence

10h55 - 11h30 Wilfrid Boireau, Institut FEMTO-ST, CNRS/Univ. Bourgogne-Franche-Comté

Nanobioanalytical investigations of extracellular vesicles: Analytical performance requirements and application fields

11h30 - 11h50 Christophe Moreau, IBS, CNRS/CEA/Univ. Grenoble Alpes

Membrane protein-based biosensors generating electrical signals

11h50 - 12h10 Vanessa Escobar, SyMMES, CNRS/CEA/Univ. Grenoble Alpes

Biomimetic strategies in artificial olfaction

12h10 - 14h10 Lunch and poster session

14h10 - 14h45 Christophe Marquette, 3d.FAB, ICBMS, CNRS/Univ. Claude Bernard Lyon 1

Bioinspired hydrogels for regenerative medicine: bioprinting applications

14h45 -15h05 Charlotte Vendrely, LMGP, CNRS/Grenoble INP/Univ. Grenoble Alpes

Protein self-assembly for bio-inspired adhesives

15h05 - 15h40 Laurent Huex, CERMAV, CNRS/ Univ. Grenoble Alpes

Biobased materials and bioinspiration: the point of view of a physical chemist

15h40 - 16h00 Elsa Migliorini, BRM, CNRS/CEA/Univ. Grenoble Alpes

Development of biomimetic platforms to decipher the role of glycosaminoglycans on BMP2 signaling

16h00 - 16h20 Marion Stalet, SyMMES, CNRS/CEA/Univ. Grenoble Alpes

Antimicrobial bioinspired surfaces design for exploring cell/surface interactions

End of event