

## *Les "Lundis de l'IPSIT"*

### *« Bioinspired supramolecular materials based on polymeric or DNA origami scaffolds: Design and applications »*

**Organisateurs :** Ali Makky (MCU, Institut Galien Paris-Saclay, Eq. MULTIPHASE-Multiscale Physical Chemistry for Pharmaceutical Sciences, ORSAY-91)

**Lundi 26 février 2024**

**09h15 - 12h15**

Université Paris-Saclay - Bât. Henri Moissan - 17, avenue des Sciences, 91400 ORSAY  
(Salle 4000)

**INSCRIPTION GRATUITE MAIS OBLIGATOIRE** par mail : [nadine.belzic@inserm.fr](mailto:nadine.belzic@inserm.fr)  
(Limitation des places disponibles)

- **9h15 - 9h30**      ***Accueil des participants***
- **9h30 - 10h15**      **Gaëtan BELLOT** (Centre de Biochimie Structurale, CNRS UMR 5048 - UM - INSERM U 1054, Montpellier-34)

### **« 3D self-assembly using DNA as programmable molecule »**

Gaëtan Bellot est chercheur-INSERM en biophysique, actuellement affilié au Centre de Biochimie Structurale à Montpellier. Après avoir obtenu son doctorat en Biologie Structurale en 2009, il a rejoint le laboratoire de William Shih à l'Université d'Harvard à Boston où ils ont introduit des méthodes de conception de nanostructures 3D à base d'ADN, communément appelées DNA origami. Depuis 2013, il a intégré l'INSERM à Montpellier où il poursuit ses travaux en développant des méthodes de design des origamis d'ADN tout en explorant les potentialités de cette approche en Biologie Structurale et en Mechano-biologie.

- **10h15 - 10h45**      ***Pause-café - Discussions***
- **10h45 - 11h30**      **Thomas M. HERMANS** (IMDEA Nanociencia, Madrid-Espagne)

### **« Controlling self - assembly by chemical fuels and light »**

Thomas Hermans is Senior Research Professor at IMDEA Nanociencia (Madrid) and group leader of the Systems Chemistry Laboratory ([www.hermanslab.com](http://www.hermanslab.com)) since December 2023. He studied Chemical Engineering and Chemistry at the Eindhoven University of Technology (2000-2006), followed by a PhD at the faculty of Biomedical Engineering under the supervision of Prof. E.W. (Bert) Meijer (2006-2010). Next, he joined the group of Prof. Bartosz Grzybowski at Northwestern

University as a postdoctoral fellow (2010-2013). He started his independent research group in 2013 at ISIS (Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg, France) and promoted to full professor in 2019.

- **11h30 - 12h15**      **Damien BAIGL** (Unité mixte de recherche P.A.S.T.E.U.R.  
-CNRS/ENS/UPMC- Département de Chimie de l'ENS, Paris-75)

### « Isothermal and reconfigurable DNA nanostructures »

Damien Baigl is professor (PR EX2) at Ecole Normale Supérieure (ENS) in Paris, member of the IUF (junior in 2010-2014, senior since 2022) and twice ERC awardee (starting in 2011-2015, advanced since 2023). After a PhD at College de France in Paris (2000-2003) and a post-doc at Kyoto University (2003-2005), he got a permanent position at the Department of Chemistry of ENS in 2005 where he became full professor in 2010. Curiosity-driven, he is exploring original ways to manipulate, control or observe various soft matter systems. His current research interests include dynamic DNA nanotechnology, reconfigurable self-assembly, soft synthetic biology, coffee-ring effect, colloidal organization at fluid interfaces, synthetic cells, and genetic encoding of soft matter properties.