

ADVANCES IN GLYCOSCIENCES
Glycan & glycosaminoglycans: New
approaches, new functions

IT Bases moléculaires et structurales du vivant

March, 5th 2024

Amphithéâtre Buffon
15 rue Hélène Brion 75013 Paris

- 8.45 am – 9.00 am **Opening**
- 9.00 am – 10.30 am **Glycan-pathogens interactions**
- 9.00 am – 9.25 am *Unusual glycans for unusual entities* - **Cristina de Castro** - University of Napoli Federico II, Italy
- 9.25 am – 9.50 am *Glycosylation of coronavirus membrane proteins* - **Sandrine Belouzard** - Center for Infection & Immunity of Lille, Lille, France
- 9.50 am – 10.15 am *Viral glycosylation: From HIV to SARS-CoV-2* - **Max Crispin** - University of Southampton, Southampton, United Kingdom
- 10.15 am – 10.30 am Selected short talks
- 10.30 am – 11.00 am **Coffee break**
- 11.00 am – 12.30 pm **Glycosyltransferases structure and multiprotein complexes**
- 11.00 am – 11.25 am *Deciphering the Mysteries of Glycosaminoglycan Chain Formation* - **Rebekka Wild** - Institut de Biologie Structurale, Grenoble, France
- 11.25 am – 11.50 am *Structural basis of capsule polymerization in Gram-negative bacteria* - **Marcelo Guerin** - Institute of Molecular Biology of Barcelona, Spain
- 11.50 am – 12.15 pm *Molecular and functional evolution of vertebrate sialyltransferases: a focus on α 2,8-sialyltransferases (ST8Sia)* - **Anne Harduin** - University of Lille, France
- 12.15 pm – 12.30 pm Selected short talk
- 12.30 pm – 2.00 pm **Lunch break and poster session**
- 2.00 pm – 3.15 pm **Genetic diseases and beyond**
- 2.00 pm – 2.25 pm *Title to be announced* - **François Foulquier** - University of Lille, France
- 2.25 pm – 2.50 pm *Deciphering the molecular mechanisms associated with B3GALT6 mutations in a rare connective tissue disorder* - **Catherine Bui** - University of Lorraine, France
- 2.50 pm – 3.15 pm *Modified cyclodextrins: from lysosomal targeting to self-assembling anti-viral agents* - **Matthieu Sollogoub** - Sorbonne University, Paris, France
- 3.15 pm – 3.45 pm **Coffee break**
- 3.45 pm – 4.50 pm **Glyco-Drugs : were are we ?**
- 3.45 pm – 4.10 pm *Title to be announced* - **Laurence Mulard** - Pasteur Institute, Paris, France
- 4.10 pm – 4.35 pm *Glycopolymers as glycosaminoglycan mimetics for glycocalyx engineering* - **Laura Hartmann** - University of Freiburg, Freiburg, Germany
- 4.35 pm – 5.00 pm *Title to be announced* - **Thomas Boltje** - Radboud University, Nijmegen, The Netherlands

ADVANCES IN GLYCOSCIENCES
Glycan & glycosaminoglycans: New
approaches, new functions

IT Bases moléculaires et structurales du vivant

March, 6th 2024

Amphithéâtre Buffon
15 rue Hélène Brion 75013 Paris

- ▶ **9.00 am – 10.30 am** **Advances in GAG and glycan analysis and interactions**
- ▶ **9.00 am – 9.25 pm** *MS-IR toolbox for Glycomics: current performance for human and non-human applications and ongoing developments* - **Isabelle Compagnon** - University of Lyon, France
- ▶ **9.25 am – 9.50 am** *Recent Advances in Protein O-Mannosylation: Structure, Function and Disease* - **Adnan Halim** - University of Copenhagen, Copenhagen, Denmark
- ▶ **9.50 am – 10.15 am** *Recent developments in mass spectrometry to meet the analytical challenges in Glycosciences* - **David Ropartz** - INRAE, Nantes, France
- ▶ **10.15 am – 10.30 am** Selected short talk
- ▶ **10.30 am – 11.00 am** **Coffee break**
- ▶ **11.00 am – 12.30 pm** **Molecular Glyco-engineering**
- ▶ **11.00 am – 11.25 am** *Mechanisms of ganglioside dimer formation and receptor activity regulation as revealed by single-molecule imaging* - **Kenichi Suzuki** - Gifu University, Japan
- ▶ **11.25 am – 11.50 am** *Tag, Detect, Illuminate: Advancing Glycosciences with Chemical Reporter Strategies* - **Christophe Biot** - University of Lille, France
- ▶ **11.50 am – 12.15 pm** *Novel lectin-based approaches to target and kill Gb3-positive cancer cells* - **Winfried Römer** - University of Freiburg, Germany
- ▶ **12.15 pm – 12.30 pm** Selected short talk
- ▶ **12.30 pm – 1.30 pm** **Lunch break and poster session**
- ▶ **1.30 pm – 3.00 pm** **Glycans & clinical biomarkers in cancer**
- ▶ **1.30 pm – 1.55 pm** *Turning sweet in immunity: glycans at the forefront of chronic inflammation, autoimmunity and cancer* - **Salome Pinho** - University of Porto, Portugal
- ▶ **1.55 pm – 2.20 pm** *The glycomics dimension of prevalent diseases* - **Manfred Wührer** - Leiden University Medical Center, Germany
- ▶ **2.20 pm – 2.45 pm** *Plasma and urine glycosaminoglycan profiles for noninvasive multicancer early detection* - **Francesco Gatto** - Chalmers University of Technology, Gothenburg, Sweden
- ▶ **2.45 pm – 3.00 pm** Selected short talk
- ▶ **3.00 pm – 3.30 pm** **Coffee break**
- ▶ **3.30 pm – 4.20 pm** **Future prospects**
- ▶ **3.20 pm – 3.55 pm** *Is glycoscience keeping up with the Big Data trend ?* - **Frédérique Lisacek** - Swiss Institute of Bioinformatics, Geneva, Switzerland
- ▶ **3.55 pm – 4.20 pm** *Multiscale study of LipoPolySaccharides recognition at the bacterial cell surface* - **Cedric Laguri** - Institut de Biologie Structurale, Grenoble, France
- ▶ **4.20 pm – 4.45 pm** **Concluding remarks**