

Carbohydrate and Fluorine Symposium

18-19th October 2018

DAY 1: THURSDAY 18th

- 9H00** **Registration**
- 9H50** **Introduction:** Yves BLERIOT and Sébastien THIBAudeau (Organizing Committee), Yannick POUILLOUX (IC2MP Head)
- 10H00** **Plenary Conference 1: David CRICH (Wayne State, USA)** *Chairman: Y. Blériot, S. Thibaudeau*
Saccharides, pseudosaccharides, and their mimetics
- 10H40** **Oral Communication 1: Thomas Hansen (Leiden, The Netherlands)**
Defining the S_N1 side of glycosylation reactions: stereoselectivity of glycopyranosyl cations
- 10H55** **Coffee-break / Posters session**
- 11H20** **Plenary Conference 2: Jun-Ishi YOSHIDA (Kyoto, Japan)**
Indirect cation flow method and its application to glycosylation Reactions
- 12H00** **Oral Communication 2: Ludivine LEBEDEL (Poitiers, France)**
Use of superacid conditions to highlight unprecedented transient intermediates in glycochemistry
- 12H15** **Lunch / Posters session / Picture**
- 14H00** **Plenary Conference 3: Eric LECLERC (Montpellier, France)** *Chairman: S. Vincent*
Fluorinated C-glycosides and carbasugars : an overview
- 14h40** **Oral Communication 3: Thimothé VUCKO (Nancy, France)**
New development in fluorinated carbohydrate derivatives for peptides radiolabeling
- 14H55** **Oral Communication 4: Alba NIN-HILL (Barcelona, Spain)**
Does the superacid media mimic the enzyme environment in a glycosidic reaction? Computational study of the 2-deoxy-β-glucose glycosyl cation in liquid HF/SbF₅
- 15h10** **Oral Communication 5: Fanny PEIGNEGUY (Angers, France)**
Surface functionalization with carbohydrates for antifouling coatings
- 15H25** **Coffee-break / Posters session**
- 15h50** **Oral Communication 6: Vincent DENAVIT (Québec, Canada)**
Stereoselective preparation of various polyfluorinated hexopyranoses
- 16H05** **Plenary Conference 4: Jesús JIMÉNEZ BARBERO (Bilbao, Spain)**
Breaking the limits in glycan recognition by using NMR
- 19h30** **Drink and Buffet Diner in Poitiers**

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DAY 2: FRIDAY 19th

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| 9H00 | Plenary Conference 5: Carmen GALAN (Bristol, UK)
<i>Catalytic stereoselective synthesis of glycosides</i> | <i>Chairman: E. Leclerc</i> |
| 9h40 | Oral Communication 7: Changping ZHENG (Paris, France)
<i>Chemoenzymatically synthesized ganglioside GM3 analogues with inhibitory effects on tumor cells growth</i> | |
| 9h55 | Oral Communication 8: Ana ARDA (Bilbao, Spain)
<i>DC-SIGN: glycan binding promiscuity as revealed by fluorinated monosaccharide probes</i> | |
| 10H10 | Coffee-break | |
| 10H40 | Plenary Conference 6: Carme ROVIRA (Barcelona, Spain)
<i>An atomistic view to glycan hydrolysis by quantum mechanics/molecular dynamics</i> | <i>Chairman: J. Jiménez Barbero</i> |
| 11h20 | Oral Communication 9: Aurélien ALIX (Orsay, France)
<i>Fluorous mixture synthesis: a tagging strategy for the preparation of libraries of Heparan Sulfate fragments</i> | |
| 11H35 | Plenary Conference 7: Pierre-Alexandre DRIGUEZ (Sanofi, France)
<i>Semi-synthetic teichoic acid conjugates as putative vaccine against Staphylococcus aureus</i> | |
| 12H15 | Lunch | |
| 14H00 | Plenary Conference 8: Stéphane VINCENT (Namur, Belgium)
<i>Fluorosugars as chemical probes for bacterial enzymes</i> | <i>Chairman: C. Galan</i> |
| 14h40 | Oral Communication 10: Sandrine PY (Grenoble, France)
<i>Carbohydrate-derived nitrones as synthetic tools for the discovery of novel classes of iminosugars</i> | |
| 14H55 | Plenary Conference 9: Bruno LINCLAU (Southampton, UK)
<i>Lipophilicity of fluorinated carbohydrates and derivatives</i> | |
| 15H35 | Closing Remarks | |