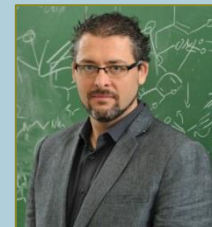


Glucides mono- et poly-fluorés : Synthèses stéréosélectives et applications biologiques

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Fluorinated carbohydrates are invaluable tools to study various biochemical processes. In this seminar, recent work from the group on the synthesis of these molecules will be presented. The synthesis of all mono-fluorogalactopyranose have been achieved and a particular emphasis will be on a new approach to 3-deoxy-3-fluoro and 4-deoxy-4-fluorogalactopyranoses from levoglucosan. Moreover, the stereoselective preparation of two di- and one tri-fluorogalactopyranoses have been completed. The biological evaluation of these fluorinated sugars was achieved over two medically relevant family of lectins.

Finally, the focus of this research is extended to the stereoselective synthesis of the first fully fluorinated hexopyranose. This open the path for the synthesis of complex fluorinated molecules containing contiguous chiral carbon centers.

Mercredi 29 novembre 2017 à 11h00
Salle PK-R605