

## Block polysaccharides

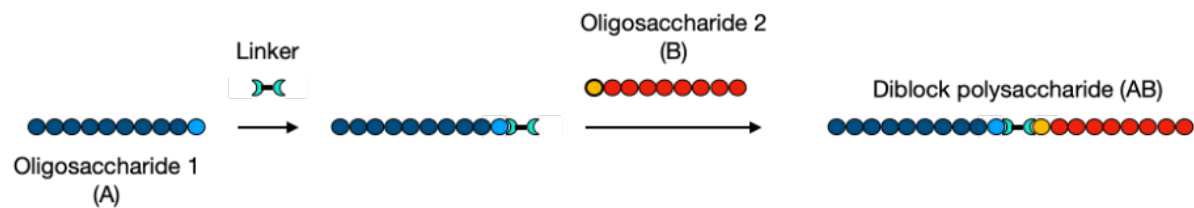
Bjorn E. CHRISTENSEN [1], Amalie SOLBERG [1], Martin FAUQUIGNON [2], Christophe SCHATZ [2]

[1] NTNU Norwegian University of Science and Technology, Norway, [2] Laboratoire de Chimie des Polymères Organiques (LCPO), Université de Bordeaux, France

bjorn.e.christensen@ntnu.no

The conjugation at chain termini of two different polysaccharides provides diblock polysaccharides, a new class of precisely engineered polysaccharides. This architecture provides on one hand new solution and stimuli-responsive self-assembly properties, while retaining key properties such as biodegradability on the other.

The first part of the presentation will focus on the preparation of blocks through dioxyamine linkers. The second part will focus on diblocks containing Ca-reactive oligogulonates (derived from alginates) and their Ca-induced self-assembly studied by static and dynamic light scattering, SANS and SAXS.



General scheme for preparing diblock polysaccharides

### Bibliographic references:

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 Solberg, A.; Mo, I. V.; Dalheim, M. Ø.; Aachmann, F. L.; Schatz, C. (2021) *Polymer Chemistry* (12), 5393-5558.  
 Mo, I. V.; Schatz, C.; Christensen, B. E. (2021) *Carbohydr. Polym.* (261), 118193.