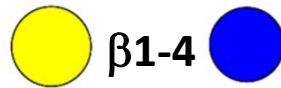
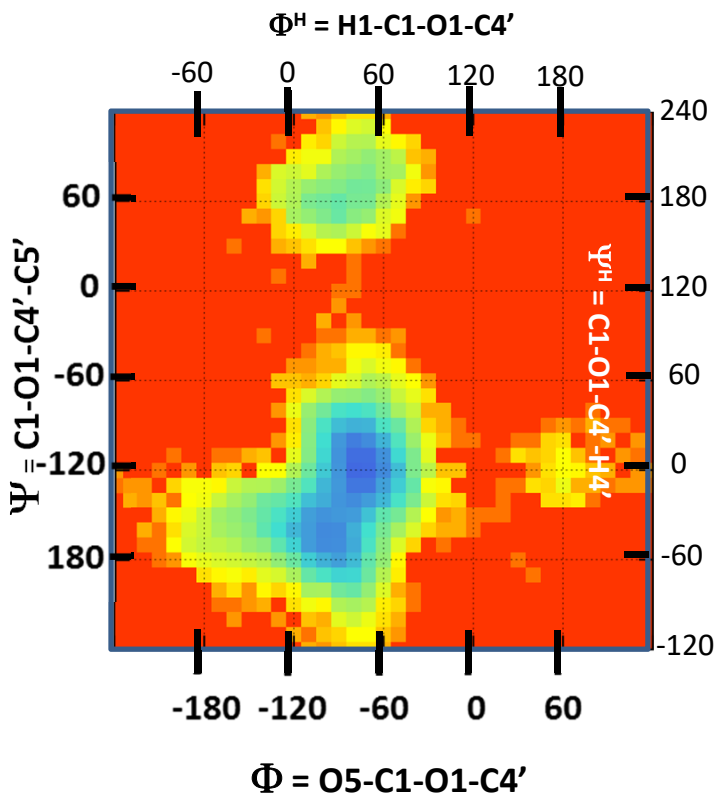
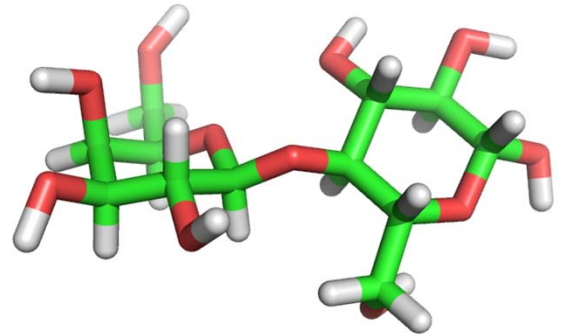
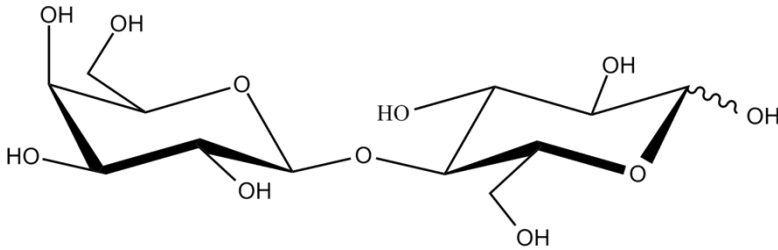


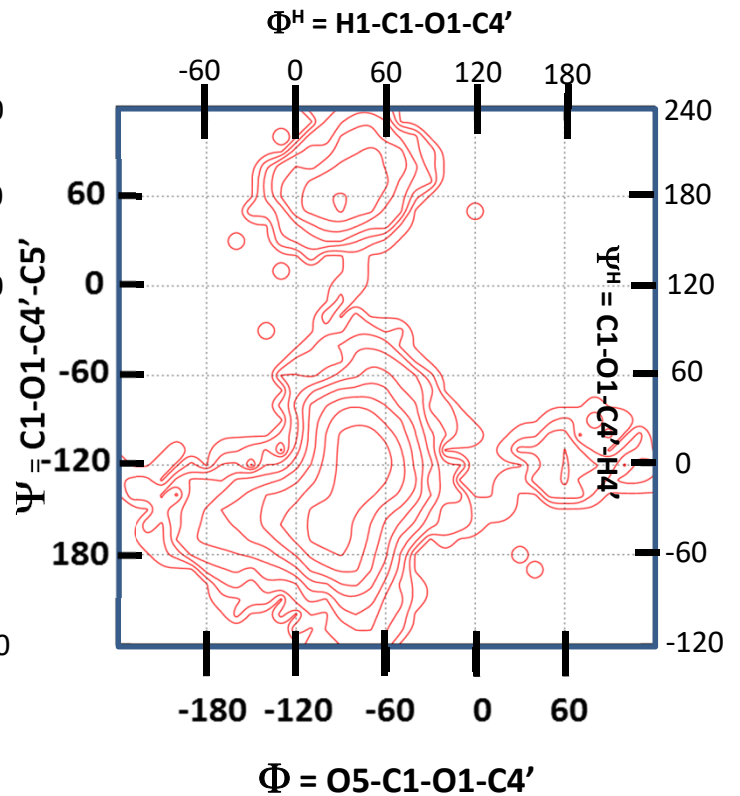
$\beta$ -D-Galp 1-4 D-Glcp



Gal  $\beta$ 1-4 Glc



- Conf 1 ( $\Phi, \Psi$ ) = -80; -120
- Conf 2 ( $\Phi, \Psi$ ) = -100; -160
- Conf 3 ( $\Phi, \Psi$ ) = -80; 60
- Conf 4 ( $\Phi, \Psi$ ) = 60; -120



- Conf 1 ( $\Phi^H, \Psi^H$ ) = 40, 0
- Conf 2 ( $\Phi^H, \Psi^H$ ) = 20; -40
- Conf 3 ( $\Phi^H, \Psi^H$ ) = 40; 180
- Conf 4 ( $\Phi^H, \Psi^H$ ) = 180; 0