

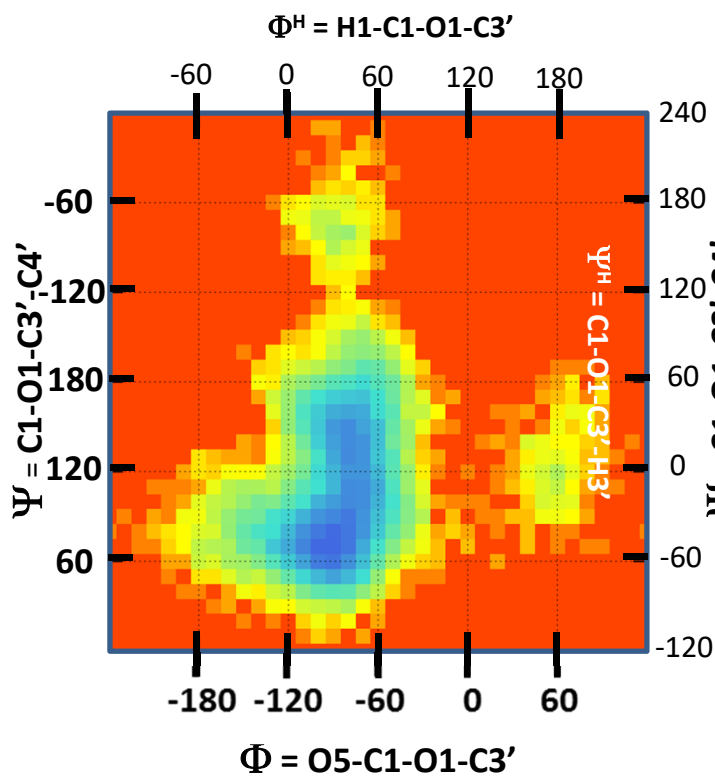
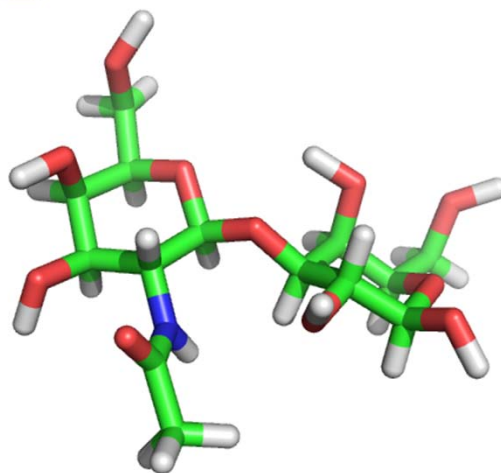
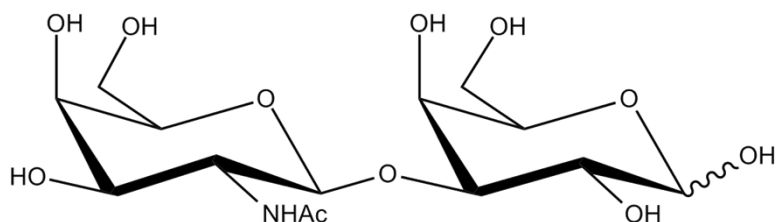
$\beta$ -D-GalpNAc 1-3 D-Galp



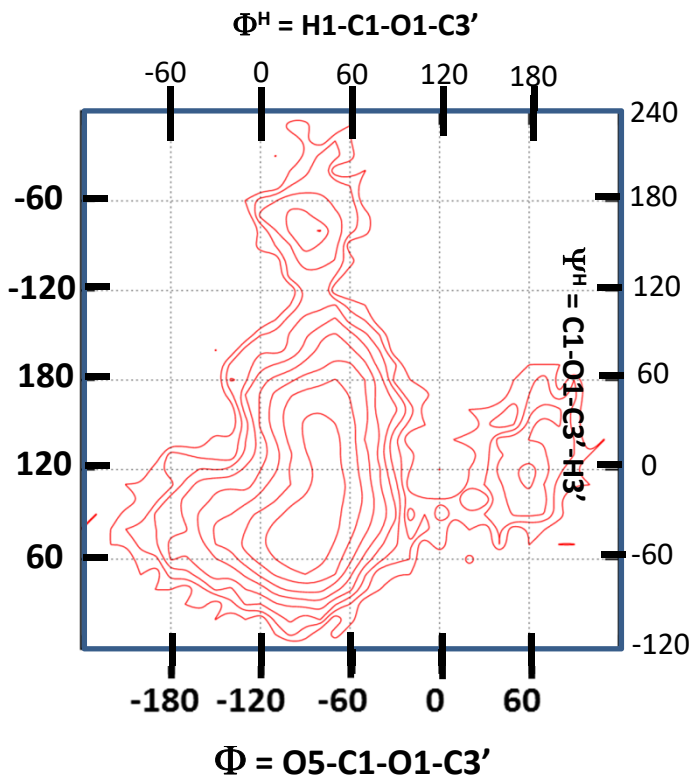
$\beta$ 1-3



GalNAc  $\beta$ 1-3 Gal



- Conf 1 ( $\Phi, \Psi$ ) = -110; 80
- Conf 2 ( $\Phi, \Psi$ ) = -90; 150
- Conf 3 ( $\Phi, \Psi$ ) = -90; -70
- Conf 4 ( $\Phi, \Psi$ ) = 60; 120



- Conf 1 ( $\Phi^H, \Psi^H$ ) = 10; -40
- Conf 2 ( $\Phi^H, \Psi^H$ ) = 30; 30
- Conf 3 ( $\Phi^H, \Psi^H$ ) = 30; 170
- Conf 4 ( $\Phi^H, \Psi^H$ ) = 180; 0