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*Cover photograph* (Courtesy of Alex MacKerell, Raphael Simon, and Mingjun Yang, University of Maryland, Baltimore; reprinted with permission.): Molecular model showing three repeats of *Salmonella enterica* serovar Typhimurium O-polysaccharide (OPS) (O:1,4,12) with glucosylation at the central OPS unit. The selected conformation of the polysaccharide is shown in van der Waals spheres with atom-based color coding and wire frame mesh indicating the range of conformational space that can be sampled by the polysaccharide as predicted by *in silico*-enhanced sampling molecular dynamics simulations.