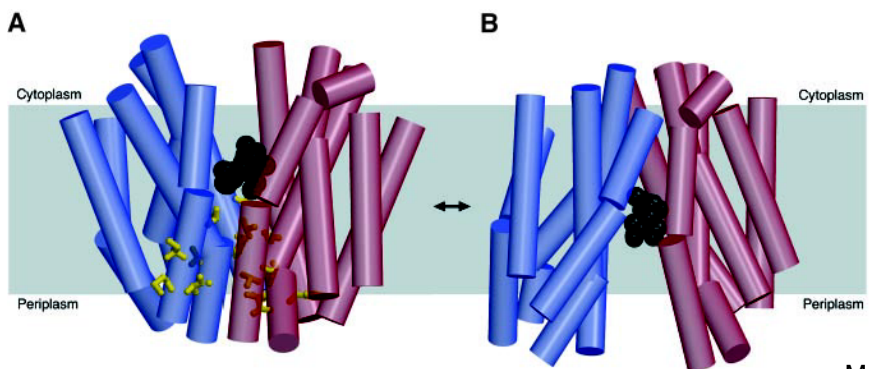


**Fig. 1.** Overall structure of LacY. The figures are based on the C154G mutant structure with a bound substrate homolog, TDG. **(A)** Ribbon representation of LacY viewed parallel to the membrane. The 12 transmembrane helices are colored from the N-terminus in purple to the C-terminus in pink; TDG is represented by black spheres. **(B)** Stereo view of LacY in a ribbon representation, viewed along the membrane normal from the cytoplasmic side. For clarity, the loop regions have been omitted. The color scheme is the same as in (A); the 12 transmembrane helices are labeled with roman numerals. **(C)** Secondary structure schematic of LacY. The N- and C-terminal domains of the transporter are colored blue and red, respectively.



Model for the sequential conformational change during the functional cycle of the *E. coli* lactose transporter (LacY).

