Corrigendum

Allosteric β -propeller signalling in TolB and its manipulation by translocating colicins

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Since the publication of this paper, the authors have noticed an error in Figure 9.

The correct figure is shown here.

The authors apologize for any inconvenience caused.

Figure 9 Structural model depicting recruitment of TolA by TolB and the subversion of this signalling mechanism by nuclease colicins. (A) In the unbound state, the TolA box of TolB is in conformational equilibrium, most likely alternating between the conformation seen in the Palbound state and an intrinsically disordered polypeptide. (B) Binding of the OM lipoprotein Pal (red) to TolB (grey) favours the state in which the TolA box (green) is sequestered to the TolB surface, thereby diminishing association with domain III of TolA, which we assign as the OFF state for the Tol system. (C) In its disordered state, the TolA box recruits TolA, which we assign as the ON state for the Tol system as this couples TolB to TolA and hence to the pmf-linked IM complex of TolQRA. (D) Nuclease colicins such as ColE3–Im3 (shown in the figure; pdb, 1jch) and ColE9–Im9 (this study) use their intrinsically unstructured T-domain TBE to subvert the Tol system by mimicking Pal. Instead of generating the TolB OFF state, however, they promote the disordered ON state of the TolA box. The panel is a composite of several published crystal structures. The colicin translocon comprises the toxin bound to its OM receptor BtuB (pdb, 1ujw); the structure of the ColE3 R-domain bound to BtuB is depicted in the figure (Kurisu *et al.*, 2003), and a porin such as OmpF (pdb, 2zfg) and the periplasmic protein TolB (pdb 1c5k), both of which are recruited by the colicin's intrinsically disordered T-domain (pdb codes, 2zld and 2ivz, respectively). Recruitment of TolAIII (pdb, 1lr0) by the TolA box of TolB generates a 'trigger complex' that is required for the dissociation of the tightly bound immunity protein of the colicin at the cell surface and initiates translocation across the bacterial OM.