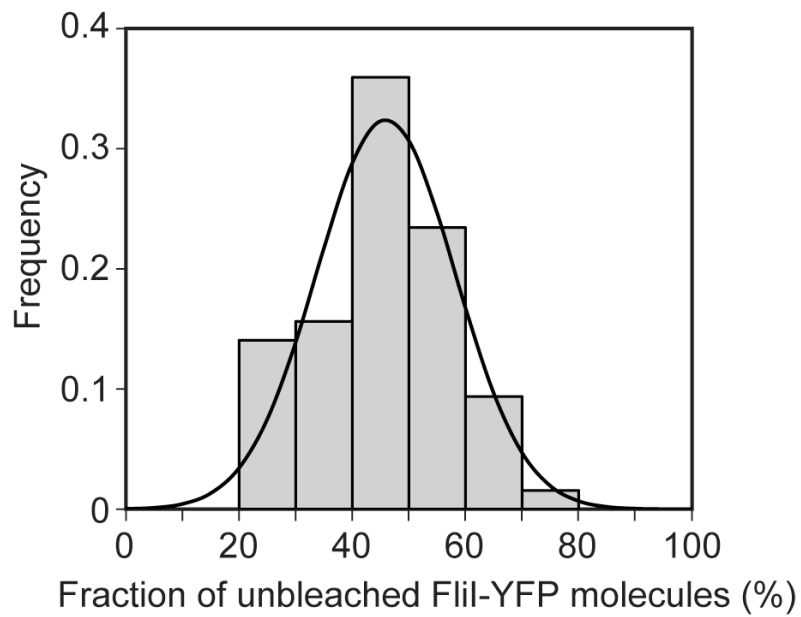


## **Supplementary Information**

### **Assembly dynamics and the roles of FliI ATPase of the bacterial flagellar export apparatus**

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**Supplementary Fig. 1** Fraction of unbleached Flii-YFP molecules in the cytoplasm after one-shot photobleaching in TIRF-FRAP experiments. The fluorescence intensities of Flii-YFP in MKM30/pJSV203 under epi-fluorescence were compared before and after photobleaching by a strong excitation under TIRF. In total, 64 Flii-YFP spots were analyzed. The fraction distributions were fitted by Gaussian functions.

**Supplementary Movie S1.** Flii-YFP turnover at the flagellar base in a TIRF-FRAP experiment. Flii-YFP spots in *Salmonella* MKM30 strain harboring pJSV203 were observed under continuous TIRF illumination for 60 seconds after photobleaching. Arrowheads indicate the Flii-YFP spots showing a rapid turnover several times.