

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Exemplary movie showing fluorescently labeled, gliding microtubules propelled by statically anchored Ncd Δ tail. See Fig. 1b for the quantification of the gliding velocities.

File Name: Supplementary Movie 2

Description: Exemplary movie showing fluorescently labeled, sliding microtubules propelled by GFP-fINcd. See Fig. 2b for the quantification of the velocities of the aligned, sliding microtubules. Please note the two non-aligned microtubules sliding perpendicularly to the surface immobilized microtubules, as described in Fig. 3a,b.

File Name: Supplementary Movie 3

Description: Exemplary movie showing the buckling of a fluorescently labeled microtubule, propelled by GFP-fINcd, as described in Fig. 2h,i.