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Supporting Information

Mechanism of Macroscopic Motion of Oleate Helical Assemblies: Cooperative Deprotonation of Carboxyl Groups Triggered by Photoisomerization of Azobenzene Derivatives

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Figure S1. Micrographs of phototriggered transitions of vesicles composed of egg-yolk lecithin and 10%(w/w) of **2**. (page 2)

Figure S2. Micrographs of phototriggered transitions of helical myelin figures composed of egg-yolk lecithin and 10%(w/w) of **2**. (page 2)

Movie S1. Phototriggered tail-shaking motion of helical assemblies.

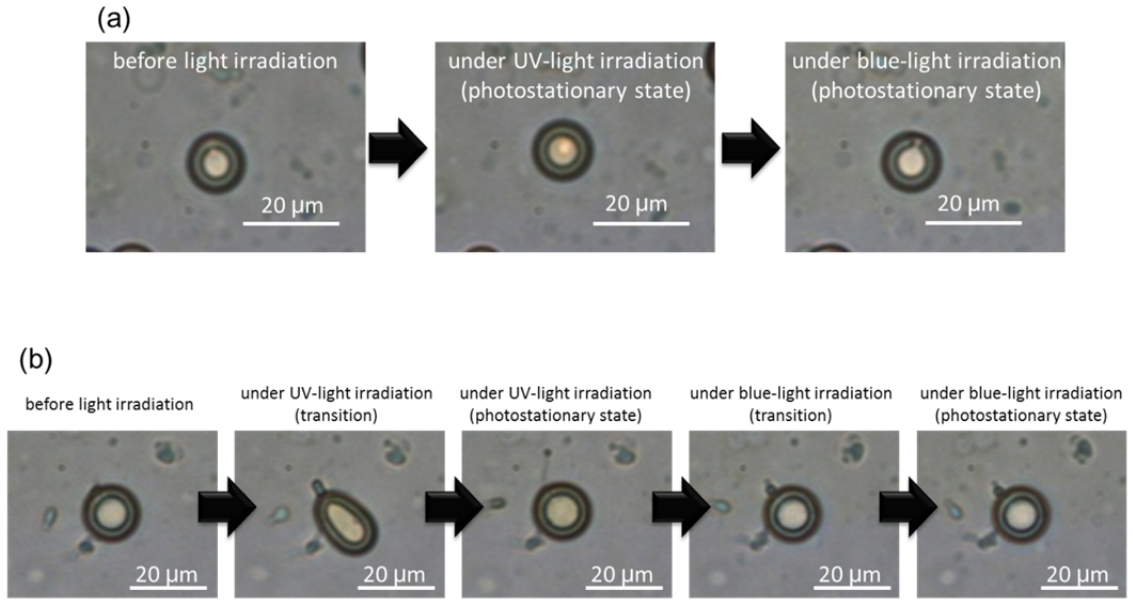


Figure S1. Micrographs of phototriggered transitions of vesicles (a and b) composed of egg-yolk lecithin and 10%(w/w) of **2**. By UV irradiation (365-nm light), the diameters of vesicles slightly increased and by blue-light irradiation (435-nm light), the diameters became almost original.

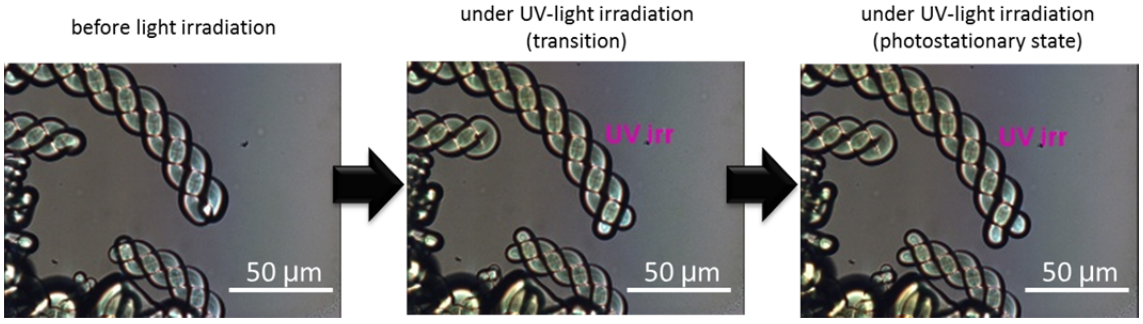


Figure S2. Micrographs of phototriggered transitions of helical myelin figures composed of egg-yolk lecithin and 10%(w/w) of **2**. By UV irradiation (365-nm light), the length of the myelin figures increased