

Photochemical control of membrane raft organization

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Movie files:

1. Reversible photo-switching in membrane lateral segregation between one-phase and two-phase states, corresponding to Fig. 2a.

.mpg (1.03MB)

2. Reversible photo-switching in the production of additional lateral domains within a two-phase bilayer, corresponding to Fig. 2d.

.mpg (1.24MB)

The movies shown are in real speed.

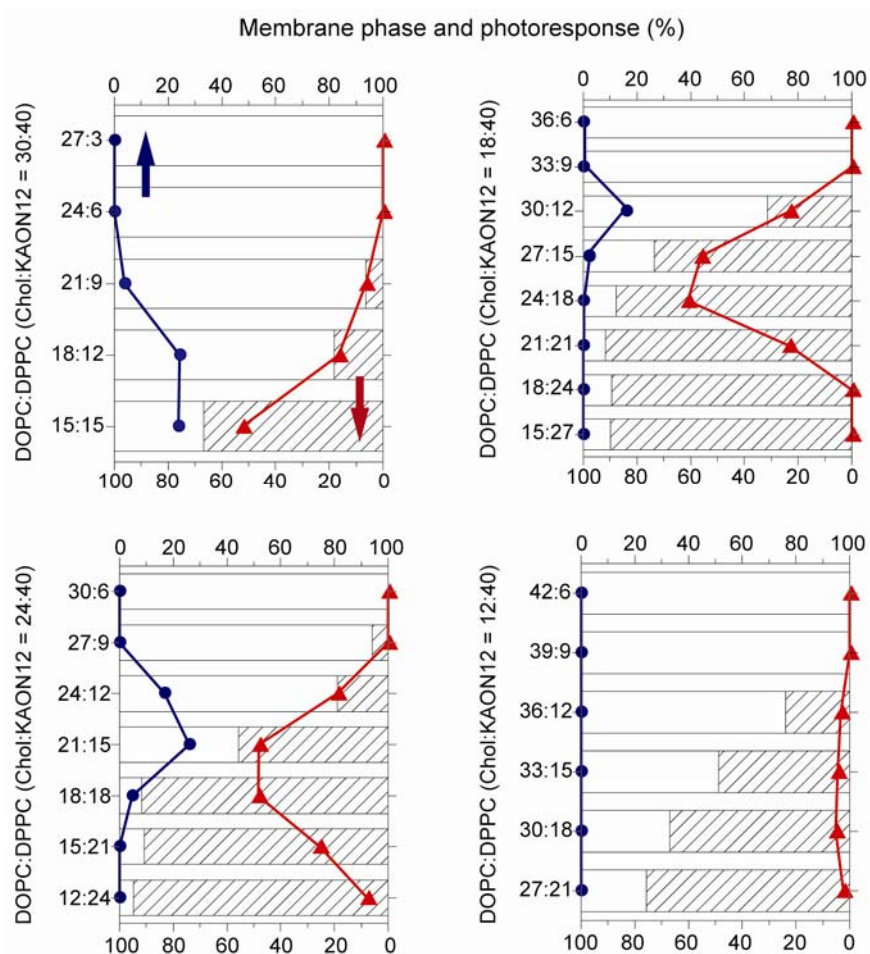


Fig. S-1. Percentage of membrane phase and photoresponse for each membrane composition. White and dashed boxes indicate one-phase and two-phase vesicles with trans-KAON12, respectively. Blue circles and lines correspond to photoresponsive membranes among one-phase trans-membranes, as shown in Fig. 2a-c. Red triangles and lines correspond to photoresponsive membranes among two-phase trans-membranes, as shown in Fig. 2d, e. The sum of both photoresponsive membranes is shown as photoresponsiveness in Fig. 3 b-e.

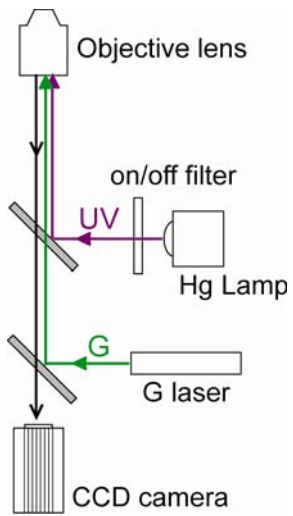


Fig. S-2. Microscope setup for the photoirradiation of membranes.

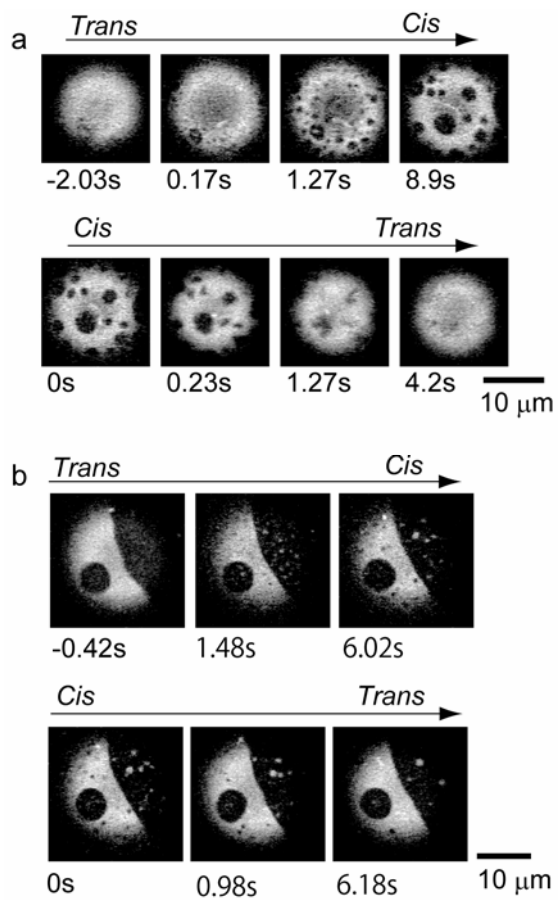


Fig. S-3. Typical photomicrographs of photo-induced reversible membrane phase organization. The vesicles are composed of DOPC:DPPC:Chol:KAON12 = 21:9:30:40 (a) and 21:15:24:40 (b).