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**Supporting Material**

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## Influence of Lipid Heterogeneity and Phase Behavior on Phospholipase A<sub>2</sub> Action at the Single Molecule Level.

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### Supporting Figure

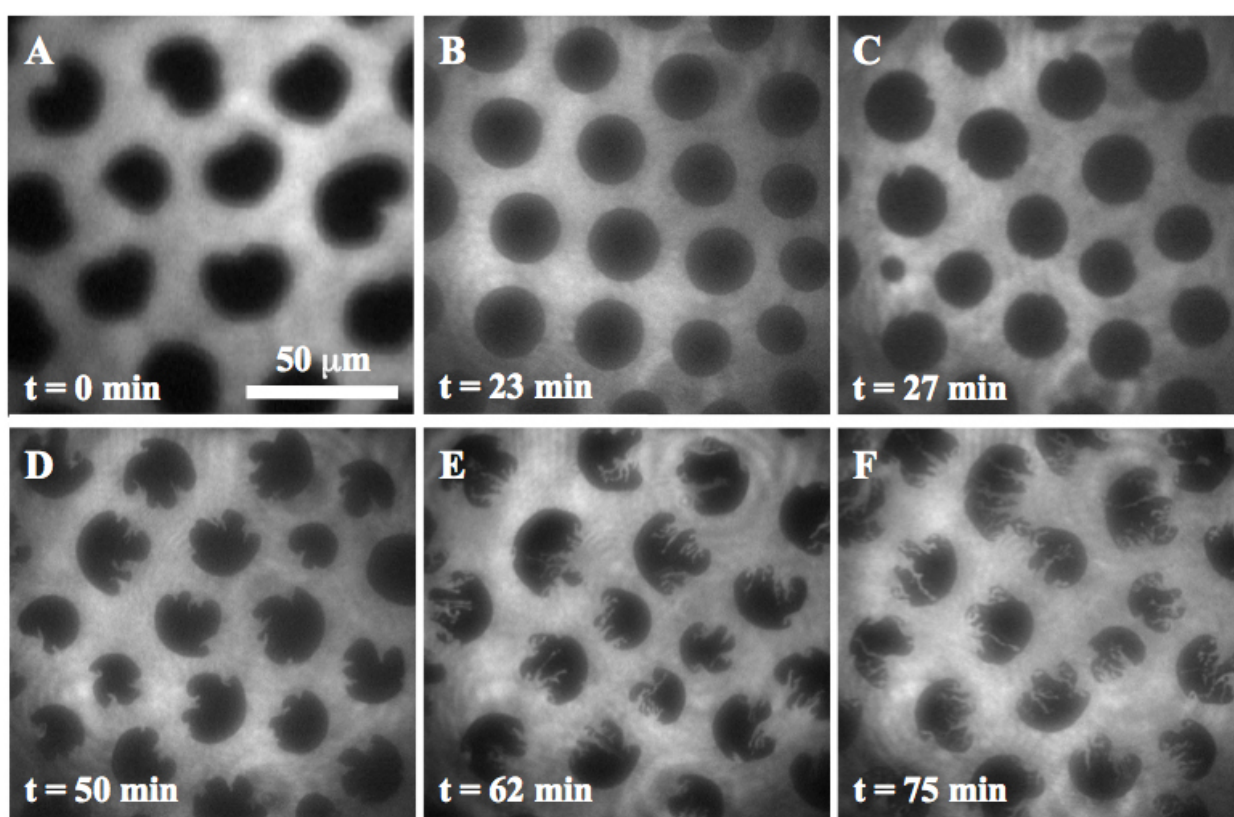


Figure S1: Time evolution of the morphology of several gel domains during PLA<sub>2</sub>-IB catalyzed hydrolysis. (A) Domain shape after compression to  $\approx 65 \text{ \AA}^2$ . (B) Domains relaxed into the characteristic circular shapes observed before channel formation. (C) Onset of channel formation occurs simultaneously on all domains (D-F). The overall growth pattern of hydrolysis channels penetrating the domains appear identical on all domains. Note that due to a slight drift of the monolayer, the domains in the images A-F are not the same. The L-DPPC monolayer was doped with the fluorescent lipid analogue (TRITC-DHPE).