

Abstract Submitted
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Confronting with single-molecule and FCS measurements mobility within membranes taken from red blood cells HYUN-SOOK JANG¹, STEVE GRANICK, Institute for Basic Science, Center for Soft and Living Matter — This talk will show aspects of complex, anomalous diffusion of phospholipids within membranes extracted from red blood cells (RBC). Isolated after osmotic bursting, we have formed supported bilayers of these extracted membranes on colloidal and flat surfaces while retaining a high fraction of the native protein content. The nature of these supported bilayers appears to be surprisingly faithful to the native RBC state. This study may shed light on the function of support membranes for membrane-based sensors when they respond to external stimuli such as ions and ATP.

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