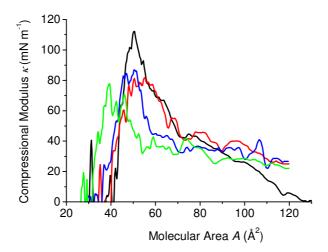
## **Supporting Information**

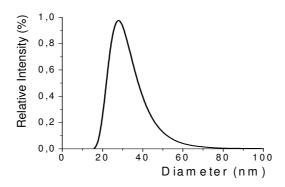
Effects of Perfluorocarbon Gases on the Size and Stability Characteristics of Phospholipid-

Coated Microbubbles – Osmotic Effect versus Interfacial Film Stabilization

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**Figure S1.** Variation of the compressional modulus of a DMPC monolayer in contact with air (black), *F*-hexane (red), *F*-diglyme (blue) and *F*-triglyme (green).



**Figure S2.** Mean diameter and size distribution of the DMPC vesicle dispersion used for adsorption rate determinations, as determined by QELS.