



- - - - DMPC 303K  $^{13}\text{C-NMR}$  (1a)  
 - - - - " 314K  $^{13}\text{C-NMR}$  (1b)  
 ▲ " 323K Berger  
 ▲ " 303K HoNiLy (2)  
 - - - - DPPC 310K  $^2\text{H-NMR}$  (3)  
 - - - - " 322K "  
 - - - - " 323K "  
 ■ " " Berger  
 ■ " " Slipids  
 ■ " " CHARMM36  
 ■ " " GAFFlipid  
 ■ " " Poger

- - - - POPC 298K  $^{13}\text{C-NMR}$  (1c)  
 ● " " Berger  
 ● " " Slipids (4)  
 ● " 303K CHARMM36  
 ● " 298K Kukol (4)  
 ● " " Chiu  
 ● " 303K HoNiLy  
 ● " 310K OPLS-AA (4)  
 ● " " MacRog

(1a) DROSS, (1c) APM-CP, (1c) R-PDLF  
 (2)  $\beta$  and  $\alpha$  averages over the two H:s  
 (3) DPPC in *E. coli* extract  
 (4) with 150 mM NaCl