

Sterols have higher affinity for sphingomyelin than phosphatidylcholine bilayers even at equal acyl chain order

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REFERENCES
1. Nyholm, T.K.M. et al. (2010) BBA 1798(5):1008-13.
2. Nyström et al (2010) Biophysical Journal 99(2): 526-33.
3. Tsamaloukas et al. (2005) Biophysical Journal 89(2):1109-19.
4. Mehnert et al. (2006) Biophysical Journal 90(3):939-46.

INTRODUCTION

Cholesterol is an important fluidity and permeability modulator in cell membranes and also helps Cholesterol is an important fluidity and permeability modulator in cell membranes and also helps to form and maintain specific lateral organization in Cholesterol is an important fluidity and permeability modulator in cell membranes and also helps to form and maintain a specific lateral organization in Cholesterol is an important fluidity and permeability modulator in cell membranes and also helps to form and maintain a specific lateral organization in Cholesterol is an important fluidity and permeability modulator in cell membranes and also helps to form and maintain a specif lateralorganization in Cholesterol is an im

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RESULT

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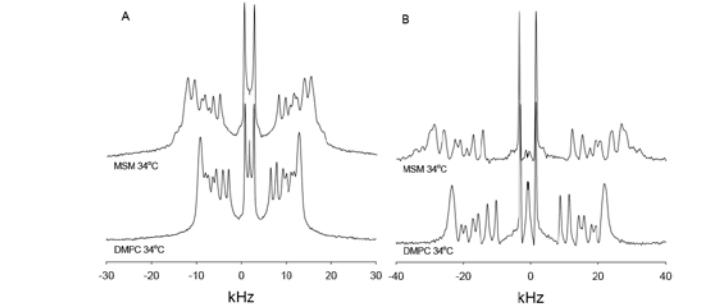
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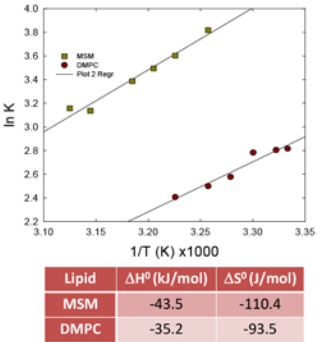
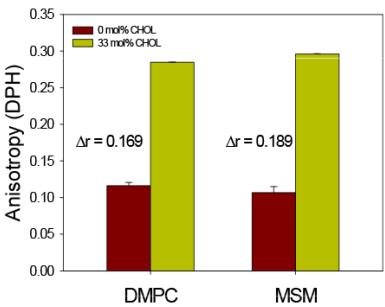
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CONCLUSIONS

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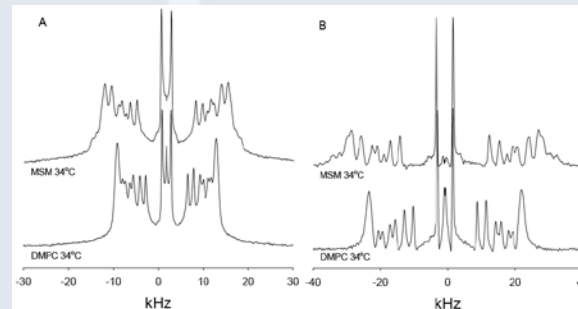
1. Nyholm, T.K.M. et al. (2010) *BBA* 1798(5):1008-13.
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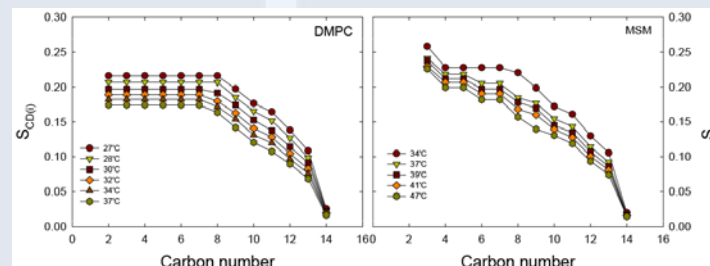
RESULT



Cholesterol is an important fluidity and permeability modulator in cell membranes and helps

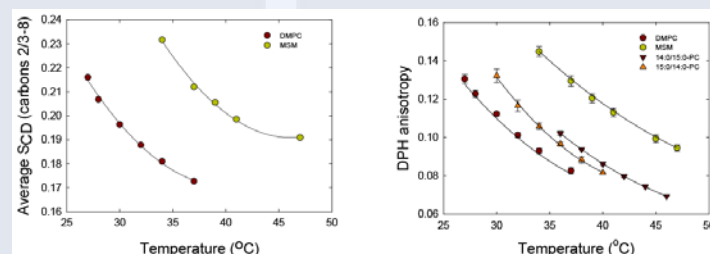
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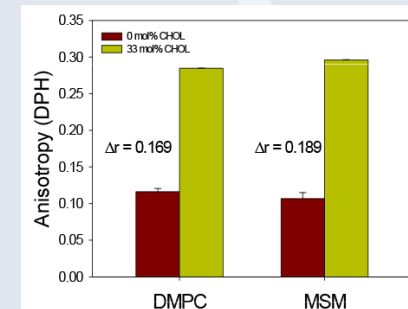
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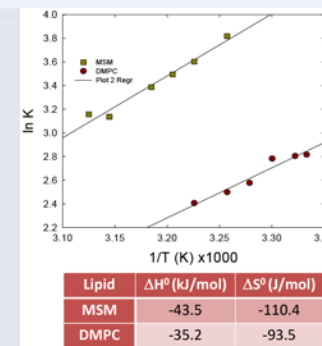
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CONCLUSIONS

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