

RISE Biomedical and Biobehavioral Research Colloquia

"Novel Lipids for Designer Nanospheres"



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Abstract

Novel asparagine-derived lipid analogues (ALAn,m) bearing a tetrahydropyrimidinone head group and two fatty chains (n and m indicate the lengths of linear alkyl chains) were synthesized. Multilamellar vesicles (MLVs) were formed upon hydration of thin films formulated with ALAn,m and distearoylphosphatidylcholine (DSPC), and extruded to generate unilamellar nanospheres. The comparative acid stabilities of DSPC and ALA11,17/DSPC liposome formulations were interrogated by turbidity, DLS, and SEM. Efforts to modulate stabilities in both directions will be described.

April 8, 2010—4:00 pm
Chemistry & Biochemistry Building
Room 153

