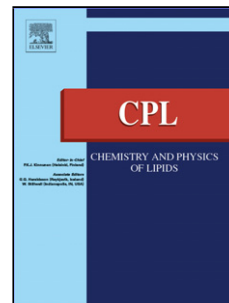


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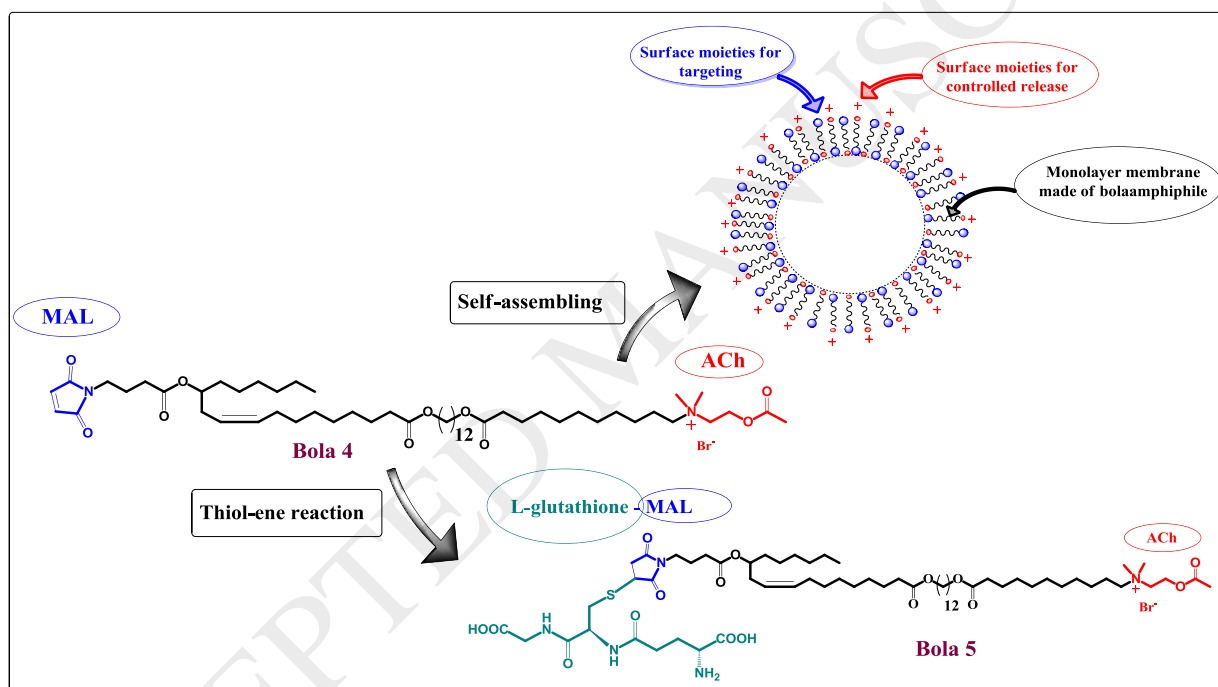
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Graphical Abstract:



Highlights

- Synthesis of asymmetric bolaamphiphiles with different head groups from ricinoleic acid
- Bola with ACh and MAL head groups can self-assemble into positively charged nano-size vesicles
- Vesicles are able to encapsulate water soluble compounds with good efficiency
- Monolayer membrane of the vesicles is symmetrical with antiparallel packing
- Bola with ACh and MAL head groups is a precursor of a plethora of asymmetric bolas via the thiol-ene reaction

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