



Bio-inspired nanostructures based on lipidic molecules; the effect of ionic interaction

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The assembling behaviors of cationic surfactants with *different counterions X- *are discussed. The important effects of counterions on the micellization and the water solvation properties such as critical micellar concentrations, ionization degrees as well as Krafft temperatures and melting temperature can be understood as a complex combination of the nature of ions (Hofmeister series), as well as cooperative interaction between ions.

In the second part I will discuss the cases where supramolecular chirality is introduced into the aggregates of non-chiral surfactants via counterions. The ion specific effects clearly indicated by these results have very important impacts on designing surfactant molecules with controlled assembling morphologies, but also for preparation of hybrid inorganic/organic nanostructures.

Venue: Seminar Room #431, MANA Bldg. Date: October 28th Thursday Time: 15:30-16:15

