2017

Biological Materials Facility

Using molecular modeling, the Biological Materials Facility Director helped researchers understand the underlying structures of the filamentous bacteriophages, which comprise the colloidal membranes studied in IRG1: Membrane based Materials. These colloidal guide membranes both theorists and experimentalists enabling precise by measurements of the molecular features responsible for the partitioning of chiral and achiral rods into rafts.

The tools and expertise of the Biological Materials Facility were employed to edit the DNA of existing bacteriophages in order to change their chirality, which were used in experiments aimed at characterizing the partitioning phenomenon.

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