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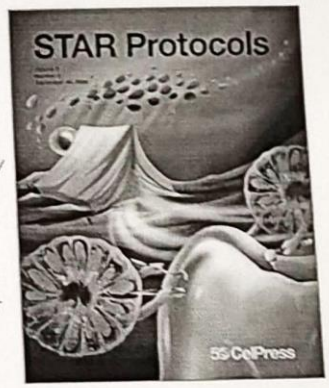

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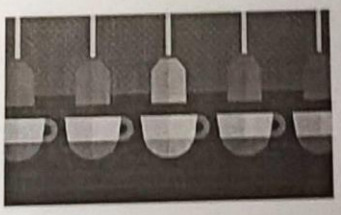

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Protocol for the symmetry manipulation of gyroidal mesostructures through binary self-assembly of block copolymer and cationic surfactant

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Summary

New symmetries of the gyroid (G) surfaces are the key to their intriguing properties. Here, we present a protocol to create a tetragonal gyroid substructure (shifted tG) outside the traditional cubic symmetry of G surfaces. We describe steps for employing a binary self-assembly system consisting of block copolymer and surfactants. We detail procedures for fabrication and structure regulations by changing the proportion of the reaction components.

For complete details on the use and execution of this protocol, please refer to Wang et al. (2024).[1]

Graphical abstract