



# Micro And Nanofabrication Using Self-Assembled Biological Nanostructures

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**Summary :** Free micro and nanofabrication using self-assembled biological nanostructures pdf download - self-assembled nanostructures based on peptides and proteins have been investigated and presented as biomaterials with an impressive potential for a broad range of applications such as microfabrication biosensing platforms drug delivery systems bioelectronics and tissue reparation through self-assembly peptides can give rise to a range of well-defined nanostructures such as nanotubes nanofibers nanoparticles nanotapes gels and nanorods however there are challenges when trying to integrate these biological nanostructures in the development of sensing devices or drug-delivery systems challenges such as controlling the size during synthesis the stability in liquid environments and manipulation in micro and nanofabrication using self-assembled biological nanostructures the options and challenges when using self-assembled peptide nanostructures in micro and nanofabrication are discussed the publication covers different ways to manipulate deposit and immobilize on specific locations these biological nanostructures in order to use them in the fabrication of new structures or as part of biosensing platforms examples where researchers used biological nanostructures for those types of applications are provided finally future applications are discussed as well as parameters to accelerate and expand the use of these biological building blocks in nano- and micro-fabrication processes by taking advantage of their impressive properties such as low-cost and short synthesis time

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