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Sommario/riassunto

Bio-nanotechnology covers the development of novel techniques and materials by making use of the inspiration derived from biomolecular structures and processes. The progress in molecular biology and microbiology over the past 50 years has provided a solid basis for such development.Well characterized natural biomolecules as well as tailored recombinant proteins and tailored microorganisms obtained by genetic engineering provide a large ""toolbox"" for the implementation of biological structures in a technical environment. Biologically inspired mater