

SEM/4622



PGS21_2013

Studium antimikrobiálních peptidů s protinádorovým účinkem

Laboratoř Metalomiky a Nanotechnologií



Vás zve na seminář k projektu ID 102:

BIOSYNTHESIS?

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Abstrakt

Quantum dots (QDs) are a relatively homogeneous group of nanoparticles with excellent optical properties. These nanoparticles can be modified and synthesized in different ways, which includes electron beam irradiation, polyol-hydrolysis method, chemical precipitation method, photochemical synthesis, γ -radiation route, microwave-assisted aqueous synthesis, and many others. Biosynthesis represents the latest method for the synthesis of QDs, and other nano- and micro-particles. This method of synthesis is distinguished particularly for its advantages in terms of shape, size, and function management. Anticipated use of QDs is across a range of disciplines from engineering to medicine, but their problem is the predicted toxicity, which depends on several factors such as the composition of the QDs and in particular their modifications. It was shown that nanoparticles obtained by the biosynthesis exhibit considerable biocompatibility. Biosynthesis in many organisms is often a result of the defense against the processes caused by heavy metals.

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