MECHANISMS OF ION IRRADIATED MWNT ANTIBACTERIAL ACTIVITY: EXPERIMENT AND CALCULATION

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The mechanism of the antibacterial effect of nanomaterials has not been sufficiently studied to date [1], on the basis of modern studies it can be argued that most nanoparticles are effective against most, both gram positive and gram negative bacteria [1-5]. Also, some papers describe the negative impact of nanostructures on viral particles [5].

At the moment, some antibacterial mechanisms have already been proven.

In this work, we have calculated (method of molecular dynamics) and experimentally shown that for MWCNTs, the first and second mechanisms of antibacterial activity take place.

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