Medical Nanorobotics: Past, Present and Future

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The field of medical nanorobotics has been particularly creative in recent years by transforming what was and often still considered science-fiction as promising technologies with the potential to enhance significantly many medical practices. In such a global international effort, two main strategic trends have emerged where artificial and synthetic implementations presently compete with swimming microorganisms being harnessed to act as medical nanorobotic agents. In this presentation, the evolutionary path of this exciting field will be described through some of the main historical achievements to recent technological innovations prior to propose a perspective view on the future of medical nanorobotics with the capability to enhance medical therapies and diagnostics to any parts of the human body.