

Novel, On-Off Switchable, Drug Delivery Vehicles, Fabrication Techniques and Applications Thereof

Tech ID: 19784 / UC Case 2008-144-0

TECHNOLOGY DESCRIPTION

University researchers have developed a nanotechnology for innovative new drug delivery capability, i.e., new nanotechnology-based, magnetically or ultrasonically switchable drug delivery vehicles with easy, remotely on-off switchable release capability. Three types of embodiments of the actuate-able, drug-delivery biomaterials have been disclosed.

The invention addresses the spurious assumption of constant rate drug release being optimal. The drug delivery system for constant release can not meet the cyclic or irregular drug requirement in human body. Therefore, this invention addresses the need to challenge and create a new regime of on-demand, drug release techniques with a targeting and timing strategy.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	8,968,699	03/03/2015	2008-144

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OTHER INFORMATION

CATEGORIZED AS

- **Medical**
- **Delivery Systems**

RELATED CASES

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