

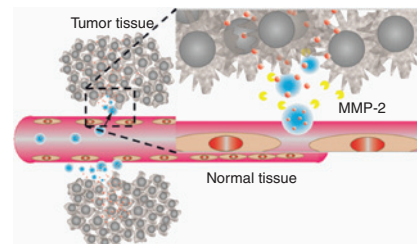
In this issue

Triantafyllos Stylianopoulos Intelligent drug delivery systems for the treatment of solid tumors

DOI 10.1515/ejnm-2015-0041
Eur. J. Nanomed. 2016; 8(1): 9–16

Review: Physiological barriers posed by the abnormal tumor micro-environment inhibit delivery of nanoparticles to solid tumors. Intelligent drug delivery systems can overcome some of these barriers and increase treatment efficacy.

Keywords: cancer nanomedicine; design considerations; drug delivery barriers; tumor micro-environment.

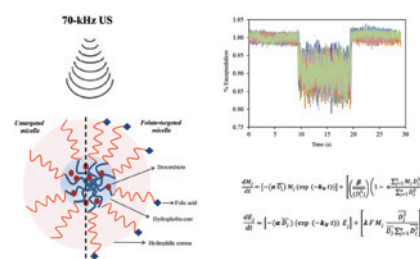


Ana M. Martins, Rafeeq Tanbour, Mohammed A. Elkhodiry and Ghaleb A. Hussein Ultrasound-induced doxorubicin release from folate-targeted and non-targeted P105 micelles: a modeling study

DOI 10.1515/ejnm-2015-0045
Eur. J. Nanomed. 2016; 8(1): 17–29

Original Article: A modeling approach was used to study the kinetics of doxorubicin release from folate-targeted and non-targeted Pluronic® P105 micelles, during 70-kHz ultrasonication, followed by its re-encapsulation once the ultrasound stimulus was turned off.

Keywords: cavitation; Dox; folic acid; micelles; Pluronic® P105; ultrasound.

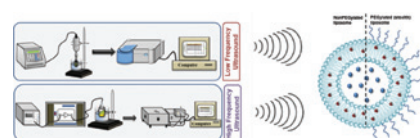


Salma E. Ahmed, Hesham G. Moussa, Ana M. Martins, Mohammad H. Al-Sayah and Ghaleb A. Hussein Effect of pH, ultrasound frequency and power density on the release of calcein from stealth liposomes

DOI 10.1515/ejnm-2015-0046
Eur. J. Nanomed. 2016; 8(1): 31–43

Original Article: This work provides a comprehensive study on the effects of ultrasound frequency (20 kHz, 1 MHz and 3 MHz), power density and pH (5.2 versus 7.4) on the release of calcein from non-PEGylated and stealth-PEGylated liposomes.

Keywords: drug delivery; liposomes; PEGylated; power density; triggered release; ultrasound.

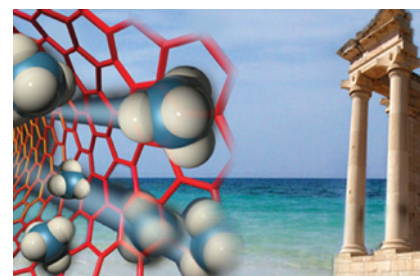


Costas Pitris and Andreani Odysseos Nanotheranostics: realizing the great promise?

DOI 10.1515/ejnm-2015-0047
Eur. J. Nanomed. 2016; 8(1): 45–48

Meeting Report: Discussion of the recent developments and emerging challenges in nanotheranostics presented at the 2nd International Conference on Nanotheranostics, October 29 to November 1, 2015, Limassol, Cyprus.

Keywords: emerging challenges; nanotheranostics; toxicology.



Jyoti Verma, Henk A. Van Veen,
Sumit Lal and Cornelis J.F. Van
Noorden

**Delivery and cytotoxicity of
doxorubicin and temozolomide
to primary glioblastoma cells
using gold nanospheres and gold
nanorods**

DOI 10.1515/ejnm-2015-0025

Eur. J. Nanomed. 2016; 8(1): 49–60

Original Article: We synthesized, minimally adherent, precisely dimensioned and uniformly coated, gold (core) silica (shell) nanorods and nanospheres that showed exceptional-chemotherapeutic drug induced-cytotoxicity in glioblastoma cells.

Keywords: drug delivery; gold nanoparticles; nanocarriers; nanomedicine and seed mediated growth; nanorods; nanospheres; theranostics.

