

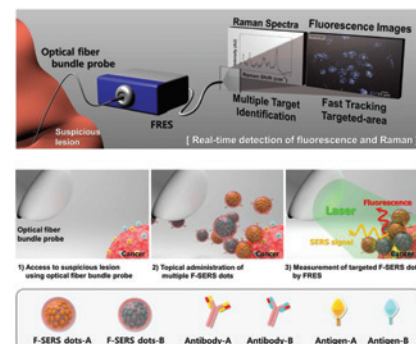
In this issue

Yong-il Kim, Sinyoung Jeong,
Bong-Hyun Jun, Yun-Sang Lee, Yoon-Sik
Lee, Dae Hong Jeong and Dong Soo Lee
**Endoscopic imaging using surface-
enhanced Raman scattering**

<https://doi.org/10.1515/ejnm-2017-0005>
Eur. J. Nanomed. 2017; 9(3–4): 91–104

Review: This review assesses dual modal detection of fluorescence image and Raman scattering using a simultaneous fluorescence-Raman endoscopic system (FRES). Fluorescence imaging could investigate wide areas, and Raman spectra could identify multiple targets in real-time.

Keywords: endoscopy;
nanoparticles; Raman
spectroscopy; surface-enhanced
Raman scattering.



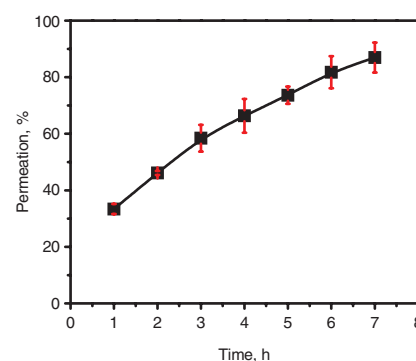
Asmaa S. El-Houssiny, Azza A. Ward, Dina
M. Mostafa, Salwa L. Abd-El-Messieh,
Kamal N. Abdel-Nour, Mirhane M. Darwish
and Wafaa A. Khalil

**Sodium alginate nanoparticles as a new
transdermal vehicle of glucosamine
sulfate for treatment of osteoarthritis**

<https://doi.org/10.1515/ejnm-2017-0008>
Eur. J. Nanomed. 2017; 9(3–4): 105–114

Original Article: Negatively charged alginate nanoparticles were created to be an alternative treatment for osteoarthritis instead of conventional glucosamine sulfate capsules. They have excellent bioadhesion function and characteristics. Moreover, they can penetrate easily through skin with higher permeation profiles.

Keywords: alginate
nanoparticles; drug carrier; ex
vivo permeability; glucosamine
sulfate; osteoarthritis;
transdermal delivery.



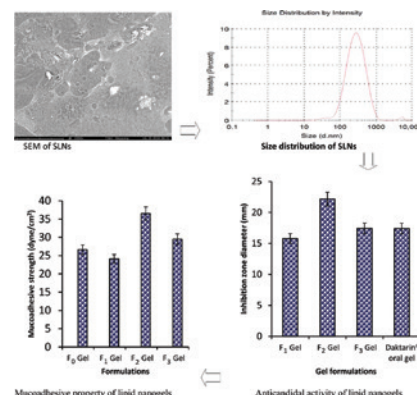
Franklin C. Kenechukwu, Anthony A. Attama, Emmanuel C. Ibezim, Petra O. Nnamani, Chukwuebuka E. Umeyor, Emmanuel M. Uronnachi, Mumuni A. Momoh and Paul A. Akpa
Tailor-made mucoadhesive lipid nanogel improves oromucosal antimycotic activity of encapsulated miconazole nitrate

<https://doi.org/10.1515/ejnm-2017-0010>
 Eur. J. Nanomed. 2017; 9(3–4): 115–126

Original Article:

Mucoadhesive lipid nanogels of miconazole nitrate were developed for improved treatment of oropharyngeal candidiasis. Formulations were nanoparticles, were pseudoplastic and had greater anticandidal properties than a marketed gel formulation of miconazole nitrate (Daktarin® oral gel).

Keywords: antimycotic activity; *Candida albicans*; miconazole nitrate; mucoadhesive lipid nanogels; oropharyngeal candidiasis (OPC); solid lipid nanoparticles.



Muddasarul Hoda, Bindu Madhuri Cavuturu, Saleem Iqbal, Garima Shakya and Rukkumani Rajagopalan
Disulfiram and disulfiram-loaded poly-[lactide-co-glycolic acid] nanoparticles modulate metastatic markers and proteasomal activity in hepatocarcinoma Hep3b cell line

<https://doi.org/10.1515/ejnm-2017-0013>
 Eur. J. Nanomed. 2017; 9(3–4): 127–138

Original Article: Disulfiram-loaded PLGA nanoparticles tend to inhibit metastasis along with protein turnover in Hep3B cell line. Polysorbate 80, as a stabiliser, enhances sustained drug release from PLGA nanoparticles.

Keywords: disulfiram; Hep3B; metastasis; PLGA nanoparticles; proteasome inhibition.

