RETRACTION NOTE

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Retraction Note to: Synthesis, characterization and in vitro studies of doxorubicin-loaded magnetic nanoparticles grafted to smart copolymers on A549 lung cancer cell line

Abolfazl Akbarzadeh¹, Mohammad Samiei², Sang Woo Joo^{3*}, Maryam Anzaby¹, Younes Hanifehpour³, Hamid Tayefi Nasrabadi¹ and Soodabeh Davaran^{1*}

Retraction Note to: J Nanobiotechnol (2012) 10: 46 https://doi.org/10.1186/1477-3155-10-46

The Editors have retracted this article [1] because Fig. 6a and c have been used in three other publications to represent scanning electron micrographs of different nanoparticles [2-4]. The data reported in this article are therefore unreliable. In addition, Fig. 3 was reproduced from [5] with retrospective permission and the credit line should read as follows: "Reprinted from Acta Biomaterialia, Volume 3, Zhang, J. and Misra, R.D.K., Magnetic drug-targeting carrier encapsulated with thermosensitive smart polymer: core-shell nanoparticle carrier and drug release response, pp. 838-850, copyright (2007) with permission from Acta Materialia Inc. Authors Abolfazl Akbarzadeh, Maryam Anzaby, Soodabeh Davaran, Sang Woo Joo and Mohammad Samiei agree to this retraction. Authors Younes Hanifehpour and Hamid Tayefi Nasrabadi have not responded to any correspondence about this retraction.

Author details

¹ Department of Medical Nanotechnology, Faculty of Advanced Medical Science, Tabriz University of Medical Sciences, Tabriz, Iran. ² Department of Endodontics, Dental School, Tabriz University of Medical Sciences, Tabriz, Iran. ³ School of Mechanical Engineering, WCU Nanoresearch Center, Yeungnam University, Gyeongsan 712-749, South Korea.

*Correspondence: swjoo@yu.ac.kr; davaran@tbzmed.ac.ir

¹ Department of Medical Nanotechnology, Faculty of Advanced Medical

Science, Tabriz University of Medical Sciences, Tabriz, Iran

³ School of Mechanical Engineering, WCU Nanoresearch Center,

Yeungnam University, Gyeongsan 712-749, South Korea

Full list of author information is available at the end of the article



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References

- Akbarzadeh A, Samiei M, Joo SW, Anzaby M, Hanifehpour Y, Nasrabadi HT, Davaran S. Synthesis, characterization and in vitro studies of doxorubicinloaded magnetic nanoparticles grafted to smart copolymers on A549 lung cancer cell line. J Nanobiotechnol. 2012;10:46.
- Akbarzadeh A, Mikaeili H, Zarghami N, Mohammad R, Barkhordari A, Davaran S. Preparation and in vitro evaluation of doxorubicin-loaded Fe₃O₄ magnetic nanoparticles modified with biocompatible copolymers. Int J Nanomed. 2012;7:511–26.
- Ebrahimnezhad Z, Zarghami N, Keyhani M, Amirsaadat S, Akbarzadeh A, Rahmati M, Mohammad Taheri Z, Nejati-Koshki K. Retracted article: Inhibition of hTERT gene expression by silibinin-loaded PLGA-PEG-Fe₃O₄ in T47D breast cancer cell line. Bioimpacts. 2013;3(2):67–74.
- Hosseininasab S, Pashaei-Asl R, Khandaghi AA, Nasrabadi HT, Nejati-Koshki K, Akbarzadeh A, Joo SW, Hanifehpour Y, Davaran S. Synthesis, characterization, and in vitro studies of PLGA-PEG nanoparticles for oral insulin delivery. Chem Biol Drug Des. 2014;84(3):307–15.
- Zhang J, Misra RDK. Magnetic drug-targeting carrier encapsulated with thermosensitive smart polymer: core-shell nanoparticle carrier and drug release response. Acta Biomater. 2007;3(6):838–50.

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