



BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: editorialoffice@wjgnet.com

http://www.wjgnet.com

ESPS Peer-review Report

Name of Journal: World Journal of Ophthalmology

ESPS Manuscript NO: 11669

Title: Cerium oxide nanoparticles as promising ophthalmic therapeutics for the treatment of retinal diseases

Reviewer code: 00505125

Science editor: Fang-Fang Ji

Date sent for review: 2014-05-29 13:20

Date reviewed: 2014-06-05 17:19

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is a nice review regarding cerium oxide nanoparticles. Please correct the following typo. Page9, line 8: inravitrear should be intravitreal.



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ESPS Peer-review Report

Name of Journal: World Journal of Ophthalmology

ESPS Manuscript NO: 11669

Title: Cerium oxide nanoparticles as promising ophthalmic therapeutics for the treatment of retinal diseases

Reviewer code: 00547586

Science editor: Fang-Fang Ji

Date sent for review: 2014-05-29 13:20

Date reviewed: 2014-06-06 21:10

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

In this review, the authors describe the medical application of cerium oxide nanoparticles for the treatment of retinal diseases, e.g. AMD. Even though the sections of the manuscript dealing with cerium oxide nanoparticles and retinal diseases per se are fully presented from the original literature and are excellently written, some points of the review are approached from one single perspective only: Sack M et al. (Mol Cancer Ther 2014), Alili L et al. (Antioxid Redox Signal 2013) describe an antioxidant and prooxidant effect of cerium oxide particles depending on the cell type studied. These data are supported by Kumari M et al (Int J Toxicol 2014), Cheng G et al. (Toxicol In Vitro 2013), and Horie M et al. (J Biochem 2011) describing cerium oxide nanoparticles to have prooxidant capacity as well. A pro-apoptotic (not only anti-apoptotic !) and anti-angiogenic effect is described as well in other cells and other diseases, e.g. Alili L et al. 2013, and others. Furthermore, the definition of oxidative stress was described by Sies H and co-workers many years ago and should be appropriately cited. In summary, the above mentioned authors should be included in the review to make the story and the review more round.