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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 24263

Title: CdSe/ZnS quantum dots induce photodynamic effects and cytotoxicity in pancreatic cancer cells

Reviewer's code: 00043819

Reviewer's country: Italy

Science editor: Ya-Juan Ma

Date sent for review: 2016-01-19 17:15

Date reviewed: 2016-01-25 18:08

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> [Y] Grade B: Very good	<input type="checkbox"/> [Y] Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> [] Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> [] Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> [Y] No	<input type="checkbox"/> [] Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> [Y] No	

COMMENTS TO AUTHORS

Authors investigated photodynamic effect of CdSe/ZnS quantum dots (QDs) on pancreatic SW1990 cancer cells, and concluded that it could be used as a photosensitizer inhibiting SW1990 cells proliferation and apoptotic protein expression regulation. The study is interesting, with convincing results and conclusions.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 24263

Title: CdSe/ZnS quantum dots induce photodynamic effects and cytotoxicity in pancreatic cancer cells

Reviewer's code: 00753027

Reviewer's country: Taiwan

Science editor: Ya-Juan Ma

Date sent for review: 2016-01-19 17:15

Date reviewed: 2016-02-02 11:39

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The authors reported the photodynamic effect of CdSe/ZnS quantum dots (QDs) on pancreatic SW1990 cancer cell. Some cytotoxic effects were observed. However, several defects in the study should be concerned. 1. Only one cell line was studied in the report. It is unclear whether the examined effects are cell-specific. 2. It is unclear whether the light dose (10, 20, 30 J/cm²) alone has any cytotoxicity to the SW1990 cells. In Figure 2, this control should be done. 3. In Figure 6, the relative ROS levels quantified by flowcytometry should be shown. 4. To demonstrate the role of ROS in the cytotoxicity, antioxidants should be used to test whether the antioxidants could prevent the cytotoxicity. 5. To demonstrate the role of apoptosis in the cytotoxicity, the caspase inhibitor should be used to examine whether the inhibitor could prevent the cell death.