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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 29865

Title: Biochemical strategies for the detection and detoxification of toxic chemicals in the environment

Reviewer's code: 00503623

Reviewer's country: United States

Science editor: Jin-Xin Kong

Date sent for review: 2016-08-30 16:36

Date reviewed: 2016-10-13 23:21

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 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"/> 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"/> No	

COMMENTS TO AUTHORS

The manuscript is an editorial addressed to the scientific community in order to heighten the awareness about the problems related to the widespread presence of hazardous chemicals in the environment. The author reviews the advances in strategies for the detection of hazardous chemicals, methods of sampling, and the use of plant and microbial enzymes for the degradation of these compounds. This is well-written and timely article. However, the Abstract section should be revised to make it less diffuse scientifically and more informative in terms of current developments in methodologies applied to address the problems caused by chemical pollutants.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 29865

Title: Biochemical strategies for the detection and detoxification of toxic chemicals in the environment

Reviewer's code: 00625196

Reviewer's country: Austria

Science editor: Jin-Xin Kong

Date sent for review: 2016-08-30 16:36

Date reviewed: 2016-10-27 14:59

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input checked="" 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 checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This is a well structured and informative manuscript. From my point of view it reads like a review, but might be also published as a long editorial.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 29865

Title: Biochemical strategies for the detection and detoxification of toxic chemicals in the environment

Reviewer's code: 00694174

Reviewer's country: United States

Science editor: Jin-Xin Kong

Date sent for review: 2016-08-30 16:36

Date reviewed: 2016-11-02 16:26

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 checked="" type="checkbox"/> 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 checked="" 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 checked="" 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

This editorial review article by Febbraio F. highlighted the biochemical strategies for the detection and detoxification of several classes of toxic chemicals in the environment. Although the author did not include a very important class of environmental toxins, i.e., thousands of chemical compounds from tobacco cigarette smoking, the manuscript has provided a good review on several important classes of chemicals such as pesticides and neurotoxic chemicals in terms of their potential impact on biological systems and human health at low level exposure, state-of-the-art detection and degradation, their detection with biochemical strategies such as biosensors, as well as their possible removal through bioremediation. These are important issues in today's scientific field that may be of interest to the general readership of World Journal of Biological Chemistry. This review is easy to read and informative, and I suggest to publish after minor revisions. The revision should include some words or caveat about the tobacco smoking-derived chemicals and why they were not covered by this editorial. It would be good that some review articles on tobacco contamination and related issues be included for readers. Page 3, line 10 from bottom: "85.000" should be "85,000".



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 29865

Title: Biochemical strategies for the detection and detoxification of toxic chemicals in the environment

Reviewer's code: 02615129

Reviewer's country: United States

Science editor: Jin-Xin Kong

Date sent for review: 2016-08-30 16:36

Date reviewed: 2016-09-11 02:01

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

It is well-written and very informative.