

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Biological Chemistry

**Manuscript NO:** 41963

**Title:** Last decade update for three-finger toxins: Newly emerging structures and biological activities

**Reviewer's code:** 00504466

**Reviewer's country:** France

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-09-26

**Date reviewed:** 2018-10-15

**Review time:** 19 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Reviewer's comments (WJBC ID: 41963): The review article by Utkin actually corresponds to an overview and update on the widely-studied toxic three-finger toxins (TFTs) from snake venoms (Elapidae and other snake families). In my opinion, this is a



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nice, clear and well-written minireview, which should have a good impact in the field of animal toxins, especially snake TFTs. I have some minor comments/concerns on this manuscript, as follows: 1. One may regret that there are some 'lacks' of matter/details in the minireview (see abstract). This could be improved in a revised version of the manuscript; 2. As an update, the so-far characterized bioactivities (actions on ASICs, blood coagulation, etc.) of TFTs could be summarized in a figure; The same might be of interest for the potential applications of such TFTs (analgesics, treatment of diabetes, etc.); 3. Figure 1: N- and C-termini of TFTs might be highlighted on the figure, as well as the positions of the connected half-cystine residues; 4. Figure 2: what about the other disulfide bridge connections in these TFTs? 5. When appropriate, 'sequence' should be replaced by 'amino acid sequence' (or 'primary structure'), and 'residues' by 'amino acid residues'.

## **INITIAL REVIEW OF THE MANUSCRIPT**

### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [ Y ] No

### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [ Y ] No