



PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 60242

Title: The polyglutamylase activity of TTL is negatively regulated by the NIMA family kinase NEK5

Reviewer's code: 02728252

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Brazil

Manuscript submission date: 2020-10-25

Reviewer chosen by: Xi-Fang Chen (Part-Time Editor)

Reviewer accepted review: 2020-11-19 13:39

Reviewer performed review: 2020-11-26 08:05

Review time: 6 Days and 18 Hours

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|---------------------------------|---|
| Scientific quality | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish |
| Language quality | <input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
| Conclusion | <input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Peer-reviewer statements | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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SPECIFIC COMMENTS TO AUTHORS

It is an interesting study that concluded that regulation of TLL activity is through phosphorylation, pointing to NEK5 as a potential effector kinase. They suggested a general control of tubulin polyglutamylation through NEK family members in human cells. Minor concerns should be considered 1. Abbreviation of NEK5 should be standardized though whole manuscript. 2. The phosphorylation sites of TLL4 were identified by Mass spectrometry and point mutations were introduced (by what). 3. At the end of the introduction section, instead of mentioning the hypothesis of the study, the authors stating the conclusion, why? 4. Arrive guidelines is an animal research: reporting of in-vivo experiments. 5. Minor English editing is recommended.