**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 90591

**Title:** O-linked β-N-acetylglcosaminylation may be a key regulatory factor in promoting osteogenic differentiation of bone marrow mesenchymal stromal cells

**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer’s code:** 05218129

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Additional Professor, Doctor

**Reviewer’s Country/Territory:** India

**Author’s Country/Territory:** China

**Manuscript submission date:** 2023-12-07

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2024-01-21 06:03

**Reviewer performed review:** 2024-01-28 10:10

**Review time:** 7 Days and 4 Hours

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novelty of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No novelty</td>
<td></td>
</tr>
<tr>
<td>Creativity or innovation of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No creativity or innovation</td>
<td></td>
</tr>
</tbody>
</table>
SPECIFIC COMMENTS TO AUTHORS

1. Mention the derivation of the UDP-GlcNAc molecule. 2. Other important functions may be highlighted in a single statement including cancer metastasis. 3. In the osteogenesis process, O-GlcNAc is consistently increases or is it a dynamic process? 4. What happened to O-GlcNAc in inflammatory arthritis?