

Review of: "Somatostatin and the pathophysiology of Alzheimer's disease"

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Potential competing interests: No potential competing interests to declare.

I find this article to be well-written and informative. The author presents a novel theoretical model for the pathogenesis of Alzheimer's disease, focusing on the role of somatostatin-positive interneurons (SST-INs) and the neuropeptide somatostatin (SST) in the disease. The author provides a comprehensive review of the literature on SST alterations in AD and proposes a model based on SST-IN hyperactivity and hypofunction. The article is structured well and provides a clear and concise overview of the proposed model. Overall, I think this article makes a valuable contribution to the field of AD research.

Here are some minor comments for improvement of the manuscript content:

The abbreviations McNe, ATP, GAB, SI, NREM, BR, MG, AB, DMN, VIP, AR, TDP, GAT, UP, FDA, DOWN, MCI, CR, TG, DG, GB, WT, McHu, BACE, MPTP, KI, DiFr, AHBA, LTP, III, GABA_e, LOAD, AChEI, McKa, UFMG, and ChAT occur only a few times each.

Line 2. It might be unclear what "This leads" points to if the previous phrase was complicated. Rewrite with a more specific subject, e.g. "This result leads".

Line 2. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 12. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 14. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 16. Consider rewriting the sentence with "has been shown" in active voice, e.g. "we showed that".

Line 16. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 27. It might be unclear what "This is" points to if the previous phrase was complicated. Rewrite with a more specific subject, e.g. "This value is".

Line 27. "point out" might seem too informal. Consider "indicate".

Line 27. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 32. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 34. It might be unclear what "This is" points to if the previous phrase was complicated. Rewrite with a more specific subject, e.g. "This value is".

Line 38. The word "significantly" is often significantly misused and vague. It might mean statistically significant or significant to the author. State significance quantitatively, e.g. "increased by 42%". Other alternatives: "substantially, notably"

Line 40. Consider rewriting the sentence with "was observed" in active voice, e.g. "we observed that".

Line 42. Rewrite using the verb "indicate" instead of construction with "indicative of".

Line 42. Consider replacing "Similarly" with "Likewise".

Line 42. Consider replacing "in the vicinity of" with just "near".

Line 42. Verify that "less" is not misused for "fewer" (e.g. "less time", but "fewer samples") or cannot be replaced with a more precise word like "thinner", "shorter", "weaker" etc.

Line 42. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 44. You can omit the word "see" in the figure reference, e.g. (Fig. 1).

Line 48. Consider shortening "in order to" as just "to".

Line 51. The sentence seems to be too long. Consider shortening or splitting it in two.

Line 53. Check if the word "fact" is actually applied to a fact. According to The Elements of Style: "Use this word only of matters of a kind capable of direct verification, not of matters of judgment."

Line 53. Consider replacing "Similarly" with "Likewise".

Line 53. Consider replacing "the fact that" with just "that".

Line 53. Consider replacing "in light of the fact that" with simple "because".

Line 60. Might need a comma after "Interestingly".

Line 97. Check if the verb "allow" is related to some permissions. If you mean "make it possible", use the verb "enable".

Line 119. Verify that "less" is not misused for "fewer" (e.g. "less time", but "fewer samples") or cannot be replaced with a more precise word like "thinner", "shorter", "weaker" etc.

Line 121. Consider replacing "the fact that" with just "that".

Line 123. You can omit the word "see" in the figure reference, e.g. (Fig. 1).

