

OPEN PEER REVIEW REPORT 1

Name of journal: Neural Regeneration Research

Manuscript NO: NRR-D-21-00303

Title: Liposome Based Drug Delivery as a Potential Treatment Option for Alzheimer's Disease

Reviewer's Name: Georg Petroianu

Reviewer's country: UNITED ARAB EMIRATES

COMMENTS TO AUTHORS

The authors address a major problem associated with treatment of Alzheimer's Disease, i.e. the drug penetration through the BBB and the solution to the problem which they see in the use of various liposomal preparation. While the review is comprehensive it tends to focus on the advantages of liposomal preparation and ignore disadvantages. The loading by weight of liposomes is not mentioned or referenced.

Recent commentaries in the Journal highlighting the loading problem should be cited. The review would also benefit from additional figures.

OPEN PEER REVIEW REPORT 2

Name of journal: Neural Regeneration Research

Manuscript NO: NRR-D-21-00303

Title: Liposome Based Drug Delivery as a Potential Treatment Option for Alzheimer's Disease

Reviewer's Name: Lionel F Gamarra

Reviewer's country: Brazil

COMMENTS TO AUTHORS

The manuscript entitled Liposome Based Drug Delivery as a Potential Treatment Option for Alzheimer's Disease by the authors C. Hernandez and S. Shukla is related to an interesting subject for the scientific community. But I would like to report some aspects after evaluation:

- Narrative reviews have a bias given that not all articles on the subject of interest are selected, but important and current articles in the literature were discussed in the manuscript. What needs to be done is to present the results found in the form of figures, graphs, etc. In this figure, the findings could be referenced and discussed in the final section of the article.

- In figure 1 it could be to improve the font size and to improve the information of the liposome technology.

The manuscript discussed virossomes, immunoliposomes and Gene-Bases Liposomes. It would be important to set up tables where studies could be compared, evaluation of effectiveness, among other parameters in group form for each technology covered.

- According to the information provided by the author of the databases, the SCOPUS database could be included where other studies, mainly studies carried out in humans, could be selected.