

Review of: "Targeting Alzheimer's disease hallmarks with the Nrf2 activator Isoeugenol"

Vincent Pons¹

1 Université Laval

Potential competing interests: No potential competing interests to declare.

The article presented here, is excellent. The study design is thorough, detailed, and the results are clearly presented and not misleading.

I only have minor comment

I would suggest to add a the hypothesis in the introduction section.

My main comment would be in regard of this statement: "More recently, the overexpression of TREM2 in the brain of APP/PS1 transgenic mice, was shown to rescue diseased-animals' spatial cognitive deficits, decreased Aβ plaques burden and ameliorated inflammation (Ruganzu et al, 2021)."

TREM2 is important as well as B-Catenin, recent research found that both were connected. Since you observed variation in GSK3B and AKT, it would be interesting to quantify the expression level of B-Catenin in the Brain. This molecule is deeply involved in cell survival (https://alzres.biomedcentral.com/articles/10.1186/s13195-020-00747-7).

Last comment I have would be about the discussion section. I would suggest to discuss the limits of this study, and what would be the future for the molecule presented here.

I would also suggest to count the number of plaque in the hippocampus and cortex as well as the volume. Studies showed that the volume can be an important factor

Thanks

Qeios ID: XG8L98 · https://doi.org/10.32388/XG8L98