J147 VS CAD-31

A comparison study between two promising drugs for alzheimers disease

Introduction

In this analysis two studies for novel treatments for alzheimers disease(AD) where compared. The CAD-31 drug is a derivative of the J147 druthese were experimented on so called SAMP8 mice. Samples were taken from the hippocampal region to be RNA-sequenced.

Materials and Methods

(induced AD)

Software: R; rstudio; edgeR; KEGG

Statistics: FDR, logfoldchange Samples:

Results 🔊

The J147 drug showed a lot less differently expressed genes in comparison to the CAD-31 drug. But they both show a different expression in mainly synaptic pathways, regulating the effect of AD.





Conclusion

Its hard to draw conclusions from the study, but the CAD-31 drug seems to affect a lot more genes than its counterpart. Further experiments are needed to determine if these drugs are viable candidates to treat alzheimer disease. But so far they show promising results.

References

[geo, cad-31] https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=6SE93678 [pubmed, cad-31] https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC5513091/ [geo, J147] https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=6SE69244 [pubmed, J147] https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC4694064/





eimpe Dijkstra e.dijkstra@st.hanze.nl

