CBD and Alzheimer’s Disease; neuroprotection and Desensitization

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Background and Hypothesis:

- Alzheimer’s disease is a neurodegenerative disease, characterized by the formation of β-Amyloid (Aβ) plaques.
- CBD is gaining interest as a treatment for Alzheimer’s Disease due to their neuroprotective properties.
- **Hypothesis:** CBD can increase cell viability and decrease oxidative stress; however, the effect will decrease in a time-dependent response.
Methods:

Cell Culturing

MTT assay

ROS assay
Results and Conclusion:

Figure 3 CBD increases cell viability
Data represent the average and standard error of three independent experiments (each triplicate). * p < 0.05 drug treatment vs. vehicle ANOVA analysis with Tukey’s post-test.

Figure 4 Acute treatment of CBD increases ROS
Data represent the average and standard error of two independent experiments (each triplicate). * p < 0.05 drug treatment vs. vehicle ANOVA analysis with Tukey’s post-test.

Figure 5 1-hour treatment with CBD shows that CBD decreases ROS production.
Data represent the average and standard error of two independent experiments (each triplicate). * p < 0.05 drug treatment vs. vehicle ANOVA analysis with Tukey’s post-test.