GLUTAMATE RECEPTOR CROSSTALK IN ALZHEIMER’S DISEASE

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• Hypothesis: The binding of Alpha Beta protein to MGLUR5 will enhance NMDA receptor activity
• The presence of AB will increase CA2+ influx
• Methods to study this hypothesis include cell culturing, AB preparation and CA2+ influx assay
• This research is important to understanding the mechanism of cells interacting with AB and NMDA receptor agonist or antagonist
Figure 2: Levels of calcium influx between different treatment combinations

Figure 3: Levels of calcium influx is read every 10 minutes over the course of 60 minutes

This research is important to the general audience as more research is conducted to understanding Alzheimer’s Disease, the more likely the medical community will be able to help treat those individuals affected by the disease by producing preventatives and more effective treatments.