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Zinc oxide nanoparticles from cassia fistula and centella asiatica leaf extract

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The blood-brain barrier has been reported to be one of the main hindrances in treating neurodegenerative diseases such as Alzheimer's and Parkinson's. Previous studies have shown that nanoparticles could be used to deliver drugs to the brain to treat neurodegenerative diseases. Nanoparticles made using medicinal plants could potentially reflect the medicinal properties possessed by the plants themselves. Cassia fistula and Centella asiatica are medicinal plants reported to have neuroprotective effects. For the present study, a combination of extracts from the above plants was used to produce Zinc Oxide nanoparticles. Phytochemical analysis was performed on the plant extracts and UV visible spectroscopy was used to confirm the formation of the nanoparticles.

Biography

Ishaan Madhivanan is a 12th grader at Clements high school. He lived in India for the first 8 years of his life and then moved to the United States. He enjoys studying Chemistry and Biology as well as playing sports like badminton and Frisbee. He runs a Non-profit organization called breaking the Sky in which he was a tutor student in science, preparing them for high school, and hosting competitions as well.

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