
Report of Expert Lecture on “Potential Application of Nutraceuticals Guggulsterone in Neurological Dysfunction” Organized by Department of Biosciences

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Brief Report of Expert Lecture on “Potential Application of Nutraceuticals Guggulsterone in Neurological Dysfunction” Organized by Department of Biosciences

The Department of Biosciences organized an expert lecture on **4th April 2024**. The keynote speaker of the Guest Lecture was **Prof. (Dr.) Sidharth Mehan**, Professor, ISF College of Pharmacy, Moga, Punjab, delivered a very informative lecture on the topic, “**Potential Application of Nutraceuticals Guggulsterone in Neurological Dysfunction**” The program began with a brief introduction by **Dr. Durdana Yasin**, followed by welcome of the guest by **Dr. Andleeb Khan** and **Dr. Nilofer**, faculty Organisers, Department of Biosciences.

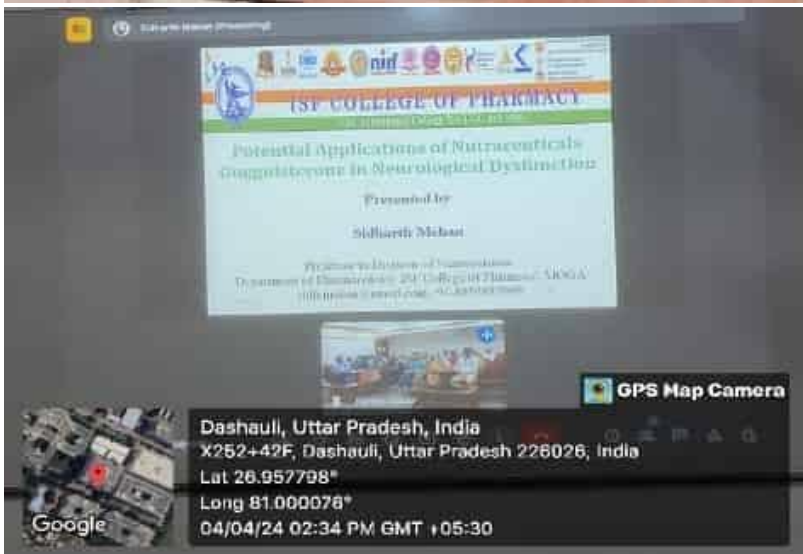
Prof. (Dr.) Mehan began the presentation by explaining that brain illness in the present time is a challenge for doctors as well as researchers in terms of diagnosis, treatment, and confirming the severity of the disease development. Further, he discussed the etiopathogenesis of various neurodegenerative diseases, which include environmental toxins, genetic defects, viral infections, bacterial infections, and gliotoxins which affect motor and sensory neurons that lead to demyelination and oxidative stress, mitochondrial abnormalities, cellular ionic imbalance, neurotransmitter deficit, and neuroinflammation. He pointed out that these all together may lead to Neurological Dysfunction.

Further, Prof. (Dr.) Mehan discussed Guggulsterone which is contained in *Commiphora mukul*'s resin and it acts as an antagonist of the farnesoid X receptor in humans and reduces cholesterol production in the liver. He further explained that Guggulsterone has great potential in modulating the gene transcription process, altering various cellular and molecular targets in the Central Nervous System. Prof. (Dr.) Mehan explained that his preliminary findings strongly suggest a protective role of Guggulsterone in MND's and Autism.

He concluded in his presentation that more extensive research is required in the field of CSF and Blood plasma for a better understanding of Neurological Dysfunction.

There was a lively question-and-answer session held upon closing of the lecture. The audience asked a range of insightful and thought-provoking questions on the topic to the speakers.

The event concluded with a vote of thanks from **Prof. (Dr.) Snober S. Mir, Head, the Department of Biosciences** thanked the guest for his valuable insights and the audience for their active participation. The guest lecture was attended by 70 UG and PG students and faculty from the Departments of Biosciences and Bioengineering.



Best Regards
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