

A Report on guest lecture titled " Protein Misfolding and Neurodegenerative Diseases

1 message

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Wed, Feb 18, 2026 at 9:38 AM

**The Department of Biosciences, Integral University organized a guest lecture titled " Protein Misfolding and Neurodegenerative Diseases"**

Dr. Farah Anjum, Professor, College of Applied Medical Sciences, **Taif University, Kingdom of Saudia Arabia**, delivered an insightful guest lecture on Protein Misfolding and Neurodegenerative Diseases on 12-02-2026 at Hall -1 , Auditorium Building, Integral University, Lucknow. The event was graced by the presence of **Prof Wahajul Haq**, Dean R& D, Director ICEIR **Prof. Syed Misbahul Hasan**, Dean Faculty of Pharmacy, and **Prof. Snober S Mir**, Head, Department of Biosciences, Integral University, Lucknow. Prof Anjum addressed the molecular basis and clinical relevance of disorders such as **Alzheimer's, Parkinson, Huntington , and prion diseases**, including **Creutzfeldt–Jakob Disease (CJD)**. She traced the historical roots of Alzheimer's disease to Alois Alzheimer's 1906 description of Auguste Deter and explained the pathological roles of amyloid- β , tau protein, α -synuclein, mutant huntingtin, and prion proteins (PrP^c and PrP^{sc}). The lecture highlighted how protein misfolding exposes hydrophobic regions, promoting amyloid fibril formation, toxic aggregation, loss of normal protein function, and toxic gain of function. Prof. Anjum emphasized the importance of cellular protein quality control systems, including molecular and pharmacological chaperones, autophagy, the ubiquitin–proteasome pathway, and endoplasmic reticulum stress responses. She explained the conventional biomarkers of AD, like hyperphosphorylated Tau protein, Amyloid Beta 42 and 40 peptide and their ratios in pathology of the disease. She also discussed oxidative stress, mitochondrial dysfunction, aging, telomere shortening, impaired autophagy, and metabolic risk factors such as high BMI and diabetes in neurodegeneration. **Advances in diagnostics, CSF biomarkers, multi-omic approaches, and global collaborative initiatives, including proteome databases**, were also highlighted. The session was attended by approximately 100 research scholars, faculty members, and supporting staff, reflecting strong academic interest in the topic, followed by Q&A sessions.

Dr. Anjum holds a Ph.D. in Biosciences with specialization in Protein Biochemistry and Enzymology from Jamia Millia Islamia, New Delhi. With over 25 years of academic, research, and administrative experience, including two decades at Taif University in the Kingdom of Saudi Arabia. The lecture was formally coordinated by **Dr. Durdana Yasin and Dr. Mohd Aamir Qureshi, Assistant Professors, Department of Biosciences**. The vote of thanks was delivered by **Prof. Snober S. Mir, Head and Professor, Department of Biosciences**, Integral University, who acknowledged the speaker's valuable contribution and the enthusiastic participation of attendees.

The glimpses of the lecture are as follows:

**2 attachments**Dr Farah1 .jpg
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