



Module PMRF-ISSS111/II/2025

NMR Spectroscopy for Structural Biology

Name of the PMRF student

Shreya Banerjee

Required background of the students taught

+2 level understanding of chemistry, physics and biology

Details of the content of the module

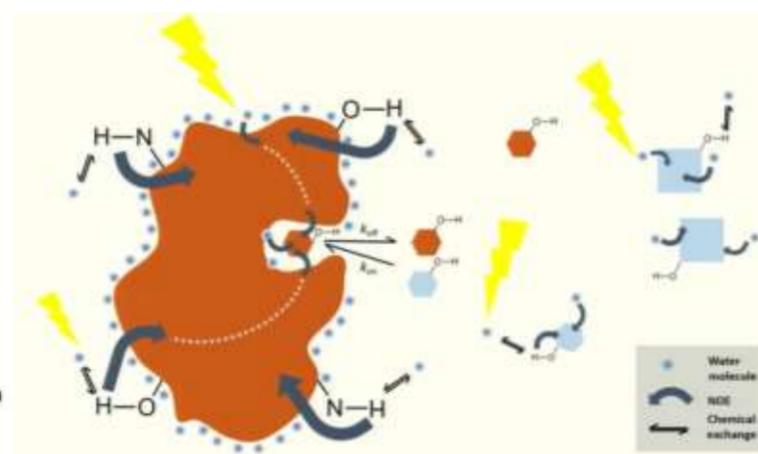
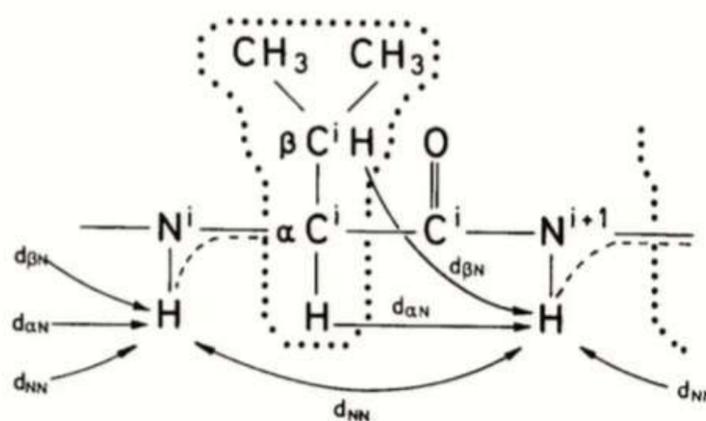
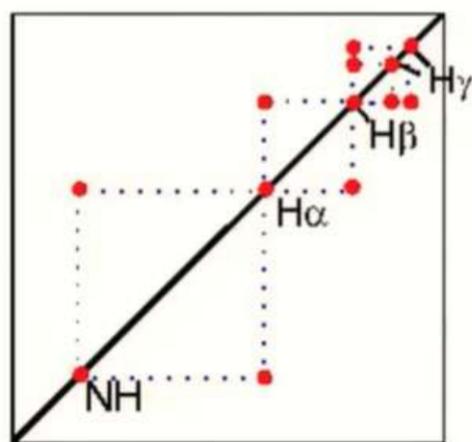
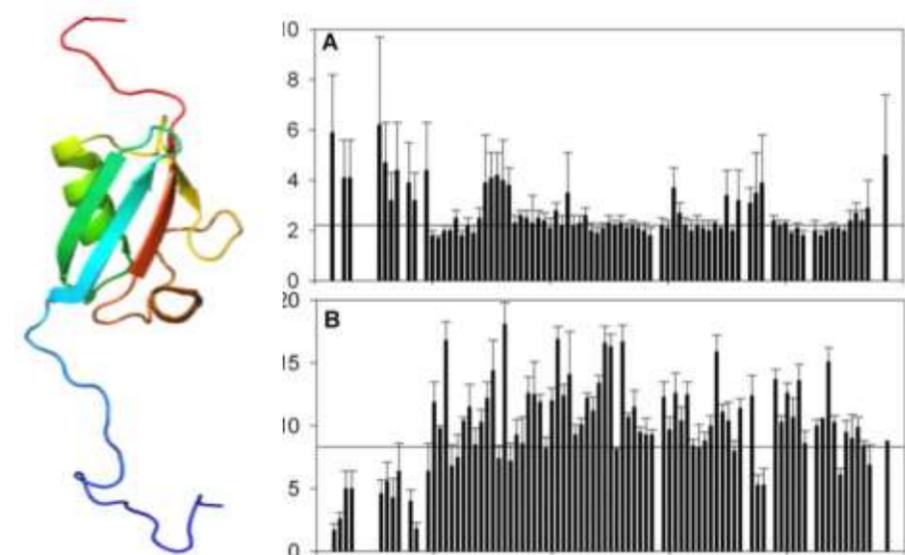
The course introduces NMR Spectroscopy and its application in the structural elucidation of organic and biological molecules.

Two-dimensional NMR And Practical Aspects for experiment: TOCSY, COSY, NOESY

Peptide and Protein Structural features and parameters. Protein Structure determination from NMR data; Protein dynamics from NMR data; Theory of spin relaxation in proteins

Nucleic acids NMR experiments; Structural features and parameters for Nuclei acids. DNA and structure determination from NMR data.

The course will include online live sessions which will be recorded and uploaded after the class.



Start Date: 25.11.25 (Tentative)

End Date: 4.12.25 (Tentative)

Timings: Tuesday, Thursday, Saturday

(6:00 to 8:00 pm)

Total hours: 10

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/D6NFhxY6ueLBi2ng9>