

## **Comprehensive Seminar**

### **Complement Signalling in the Brain: Implications in Neurodevelopment and Neuroinflammation**

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The complement system is an important part of the innate arm of immunity. It comprises of many proteins that work together to raise immune responses with outcomes such as phagocytosis, cytolysis and inflammation. Recent literature suggests that complement proteins are locally produced by glial cells in the brain where they are implicated in homeostatic and neurotoxic functions. In my talk, I will discuss these roles of complement proteins and highlight the emerging theme of complement as markers of neuroinflammation in brain pathology. Further, I will discuss our motivation to develop a modular tool to map complement in the brain and potentially use this tool as an agent for the delivery of complement inhibitors in the brain.

***Friday, Jan 24<sup>th</sup> 2025***

***09:30 Hrs (Tea / Coffee 09:15 Hrs)***

***Auditorium, TIFRH***