

## **Seminar**

### **From Lesions to Circuits: Revisiting Chronic Pain Mechanisms in the Brain**

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Understanding how we respond to pain is crucial for developing effective ways to alleviate pain in the clinic. To that end, we utilise animal models to elucidate the brain and spinal cord circuits that govern the behavioural responses to chronic pain. By exploiting optogenetic and chemogenetic strategies, we can selectively activate or inhibit specific nodes in our circuits of interest to test their roles in pain pathophysiology. In vivo and ex vivo physiological recordings help us understand how these pain circuits process information, while anterograde and retrograde tracing techniques allow us to map the connectivity of circuits of our interest. In this talk, I will focus on a novel circuitry that we believe is instrumental in the hypersensitivity and distress that we perceive while experiencing persistent refractory pain.

***Tuesday, Jan 27<sup>th</sup> 2026***

***14:30 Hrs (Tea / Coffee 14:15 Hrs)***

***Auditorium, TIFRH***