

Seminar in Microbiology

Monday, April 11, 2022

16:00 – 17:00

Zoom : <https://unige.zoom.us/j/66033108206>

Asst. Prof. Shaon Sengupta

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***"Circadian regulation of lung inflammation:
the clock is ticking!"***

Abstract: Circadian rhythms are oscillations in various physiological processes that occur with a 24hrs period. These rhythms serve as an anticipatory mechanism and thus enhance survival of organisms in the face of an ever-changing environment. While traditionally circadian rhythms were supposed to emanate from the suprachiasmatic nuclei (hypothalamus), it is now known that individual organs and cells have their own autonomous clock. At the molecular level, circadian rhythms are generated by rhythmic oscillations in the transcription and translation of core "clock" genes. Various facets of the immune system are known to be under clock control. My lab focusses on the circadian regulation of lung injury and repair with specific focus on influenza infection. My talk will discuss our work in this area in the context of the advances in the field in the past several years.

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