Pharmacy
Department Seminar

Date: 28th August 2017

Time: 5pm

Venue: S4A Level 3 Room A & B

Beyond the magic bullets: Emerging paradigm of relaxin-3 derived stapled peptides targeting on nucleus incertus networks in the brain

Subhi Marwari graduated with a Master's degree in Biotechnology from Thapar University, Punjab, India. She, further persuaded her research with the analysis of novel drug compounds for CNS penetrance under Drug Development Unit at NUS. Subhi is currently pursuing her Ph.D. under the supervision of A/P Gavin S Dawe and A/P Brian W Dymock. Her research focuses on developing the novel relaxin-3 derived stapled peptides as a potential therapeutic agent for feeding and neuropsychiatric disorders.

The neuropeptide, relaxin-3 plays a crucial role in the normal function of the central nervous system and its endogenous receptor RXFP3, hold great promise as therapeutic target for the treatment of several CNS disorders. The brain stem nucleus incertus (NI) is the capital source of relaxin-3 which projects widely to midbrain and forebrain structures implicating the roles of relaxin-3/RXFP3 nexus in metabolism, anxiety, stress and memory suggesting novel targets for the treatment of neuropsychiatric disorders.

In this seminar, we will discuss the scrutinized approaches for the identification of the lead, relaxin-3 derived stapled peptides as a breakthrough solution to address the RXFP3 targets as well as the effects in *in-vivo* profiling in rodent models of eating and neuropsychiatric disorders. Furthermore, we will also discuss about the pathways involved in mechanism of action of these potential candidates.

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