Département de psychiatrie
Centre de neurosciences psychiatriques
Site de Cery
CH-1008 Prilly - Lausanne

Centre de Neurosciences Psychiatriques

CNP SEMINAR

ANNOUNCEMENT

Friday, October 18, 2013, 10:00am

"Excitement spilling over in sensory processing; Using pharmacology as a tool to investigate synaptic function"

Professor Tom Salt, PhD, FBPharmacolS

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Glutamate is the major excitatory transmitter in thalamo-cortical processing loops. In addition to its fast neurotransmitter action via ionotropic receptors, glutamate also mediates modulatory effects via metabotropic glutamate receptors. This presentation discusses how the metabotropic glutamate receptors on different neural and glial elements in the thalamus may be activated under (patho)physiological conditions, and how this may relate to sensory and cognitive processing. Furthermore, the possibility that these receptors may be important drug targets for the treatment of sensory and cognitive disorders will be discussed.

Recent publication:
Copeland, C. S., S. A. Neale & T. E. Salt (2012). "Positive allosteric modulation reveals a specific role for mGlu2 receptors in sensory processing in the thalamus." The Journal of Physiology 590(4): 937-951.

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