

Dr. Michael Graupner from Laboratoire de Physiologie Cérébrale - Université Paris Descartes will give a talk entitled "Unreliable tone-evoked activity in the auditory cortex".

Abstract:

Correlations in the spiking activities between neurons exist throughout cortex and have been observed under a variety of experimental conditions. In the auditory cortex, correlations may develop during tone stimuli (signal correlations) but may also be stimulus independent (noise correlations), arising instead from e.g. common inputs or background oscillatory activity. Previous studies have furthermore shown that spiking is sparse and stochastic in the auditory cortex under anesthesia and in the awake animal. Using in vivo whole-cell recordings from pairs of cells in layer II/III of the auditory cortex we investigate the role of correlations for tone-evoked responses and the source of spiking stochasticity.