This is an interesting paper that resolves the old controversy about the relationship between hippocampal theta rhythm and theta rhythmic whisking in rats, by presenting evidence to show that the two rhythms are unrelated.

The authors monitored the whisking activity by measuring the myostatical electromyogram (EMG), and simultaneously measured the hippocampal local field potential (LFP). They show that, while the whisker-pad EMG and the hippocampal LFP show theta rhythmic modulation, the two theta rhythms are uncorrelated. The results conclusively demonstrate that, at least in these simple tasks where the animals are freely whisking, the whisking rhythm and the theta hippocampal rhythm are unrelated.

Disclosures
None declared