

Burst-induced Inhibition in Cortical Neuronal Networks in vitro.

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Abstract: *We analyzed the interactions in the electric activity of different neuron types in low density cortical networks growing on MEA glass neurochips. During spontaneous activity, irregularly spiking neurons (theta-beta oscillators) were curbed by simultaneously bursting neurons (gamma oscillators). This kind of interaction might be an important principle in the restriction of excitation and the processing of information in the cerebral cortex.*

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