Thalamocortical Assemblies
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Thalamocortical Assemblies
How Ion Channels, Single Neurons and Large-Scale Networks Organize Sleep Oscillations

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To Beatrice and Laurence, who helped us in many ways and for their forbearance with our sleep deprivation
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During sleep, the mammalian brain generates an orderly progression of low-frequency oscillations. The nature of these oscillations and the mechanisms involved and the purpose of these changes as the brain moves from sleep onset to deep sleep and their interconnectivity have remained unclear. However, as we learn more about the properties of neurons in the thalamus and cerebral cortex, it has become possible to suggest a role for these oscillations in systems and it is now possible to suggest a role for thalamocortical assemblies and their collective behavior.

Thalamocortical Assemblies is for neuroscientists, neurobiologists, and other researchers interested in sleep and memory processes.