



Pediatric Neurology Part I: Chapter 45. The developing cortex (Handbook of Clinical Neurology)

Yehezkel Ben-Ari

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Cortical maturation is associated with a series of developmental programs encompassing neuronal and network-driven patterns. Thus, voltage-gated and synapse-driven ionic currents are very different in immature and adult neurons with slower kinetics in the former than in the latter. These features are neuron and developmental stage dependent. GABA, which is the main inhibitory neurotransmitter in adult brain, depolarizes and excites immature neurons and its actions are thought to exert a trophic role in developmental processes. Networks follow a parallel sequence with voltage-gated calcium currents followed by calcium plateaux and synapse-driven patterns in vitro. In vivo, early activity exhibits discontinuous temporal organization with alternating bursts. Early cortical patterns are driven by sensory input from the periphery providing a basis for activity-dependent modulation of the cortical networks formation. These features and notably the excitatory GABA underlie the high susceptibility of immature neurons to seizures. Alterations of these sequences play a central role in developmental malformations, notably migration disorders and associated neurological sequelae.

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