



## Oscillatory Event-Related Brain Dynamics (Nato Science Series A:)

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How does the brain code and process incoming information, how does it recognize a certain object, how does a certain Gestalt come into our awareness? One of the key issues to conscious realization of an object, of a Gestalt is the attention devoted to the corresponding sensory input which evokes the neural pattern underlying the Gestalt. This requires that the attention be devoted to one set of objects at a time. However, the attention may be switched quickly between different objects or ongoing input processes. It is to be expected that such mechanisms are reflected in the neural dynamics: Neurons or neuronal assemblies which pertain to one object may fire, possibly in rapid bursts at a time. Such firing bursts may enhance the synaptic strength in the corresponding cell assembly and thereby form the substrate of short-term memory. However, we may well become aware of two different objects at a time. How can we avoid that the firing patterns which may relate to say a certain type of movement (columns in V5) or to a color (V4) of one object do not become mixed with those of another object? Such a blend may only happen if the presentation times become very short (below 20-30 ms). One possibility is that neurons pertaining to one cell assembly fire synchronously. Then different cell assemblies firing at different rates may code different information.

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