“from sleep to attention”

connection points: thalamocortical patterning, neuromodulatory systems,

forms of attention

bottom-up, top-down, overt, covert, spatial, temporal, awareness, working memory, internal, external, schema

mechanisms of attention

signal-to-noise, temporal coherence, stimulus selection, spatial selectivity, schema formation, expectation, cell assembly formation

disorders of attention

attention-deficit disorder, Alzheimer’s disease/aging, schizophrenia, obsessive-compulsive disorder, parietal hemineglect, autism spectrum disorder
anterior cingulate – connection to chronic pain, depression, obsessive-compulsive disorder, and effort-reward relationships