

Overview of Cerebral White Matter Anatomy



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This course is to provide recent advances on brain white matter anatomy. The conectomics becomes gradually important for the understanding of normal and abnormal neurological functions. Thanks to the advance of high field MRI technology, diffusion tensor image or tractography of the white matter of human brain in vivo made it possible to visualize the fine fiber tracts of the brain, such as thalamo-limbic fiber system as well as the well known fasciculi. Its application in deep brain stimulation and also stereotactic surgery is expected. Classic white matter tracts of the brain will be shown through cut sections or dissection of the cadaver brains, and the result will be correlated with in vivo tractography. In summary participants would be benefited for the detailed understanding of the white matter in general, but particularly of limbic system and Papez circuit through this course.
