

# 大学院特別講義のご案内

日時: 2016年3月18日(金) 17:00～19:00

場所: D棟2階 中会議室

講師: 西野精治先生

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演題: Neurobiology of Hypersomnia: Animal Studies to Bedside (日本語での講義です)

要旨: Our progress in understanding the pathophysiology of hypersomnia is particularly indebted to the 1999 discovery of narcolepsy genes (i.e., hypocretin/orexin receptor and peptide genes) in animals using forward genetic and reverse genetic. These results immediately read to the discovery (in 2000) of hypocretin ligand deficiency in idiopathic cases of human narcolepsy-cataplexy. The discovery in human narcolepsy lead to (A) the establishment of a new diagnostic test (i.e., low CSF hypocretin-1 levels) and (B) development of hypocretin replacements to be used in the treatment of hypocretin deficient narcolepsy.

Hypersomnia also occurs in association of various neurological conditions, including stroke, brain tumors, and neurodegenerative (such as Parkinson's disease) and genetic disorders (such as, myotonic dystrophy, Prader-Willi syndrome), and impairments of hypocretin neurotransmissions are also seen in some of these diseases. However, hypocretin impairments could not explain the pathophysiology of all types of hypersomnias, and other mechanisms still unknown are involved. Research using the animal models of myotonic dystrophy and Parkinson's disease is currently in progress in our laboratory in order to find specific pathophysiological mechanisms involved in hypersomnia in these diseases.

In this talk, the pathophysiological mechanisms of hypersomnia associated with various etiology based on the results of recent animal experiments will be discussed.

※本講義は「口の難病セミナー」を兼ねております。多数のご参加をお待ちしています。

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