生理学セミナー

Identification of potential inhibitor on PD using a unique novel human cell model as a model for Parkinson's disease

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＊職員、大学院生、学部生、ご興味のある方はどなたでもご参加ください。

Although animal models of Parkinson's disease (PD) involving non-human primates, rodents, dogs, cats and goldfish are still the main approaches used in medical research, there is currently no available animal model that accurately reproduces the human disease. Whereas a range of symptoms might be understood, the causes of human illnesses and their progression are often impossible to identify in animals since the only human models available are post-mortem samples from PD patients. The initiation and progression of the disease in human still remain to be fully characterized. Therefore, there is an imperative need to go back to basics and investigate the mechanism of the events happening prior to the development of the disease. To this aim, a human dopaminergic cell model was developed from a human neural progenitor ReNcells, and to which a neurotoxin 6OHDA was applied to mimic the different stages of PD. The objective of this study was to investigate the initiation and progression of the PD at the cellular level, while monitoring the production of dopamine. This presentation includes the preliminary results of this study which validate our human cellular PD model, and the effects of potential inhibitor on the damaged dopaminergic neuron.

大学院生、 ARTプログラム科目等履修生のみなさま：
このセミナーは、博士課程授業科目の「研究方法論（基礎･応用）の授業に出席したとみなされる講演会」としてカウントすることが可能です。出席記録簿を持参して、開催担当教授の「押印」を受けてください。

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