Keio University Global Research Institute

KGRI Keio University Global Research Institute

Lecture Series

Keio Global Initiatives
Longevity, Security, Creativity

State-dependent changes in astrocytic functions

Prof. Maiken Nedergaard

Center for Translational Neuromedicine, University of Copenhagen

コーディネーター: 安井正人 医学部薬理学教授

Abstract **The nightlife of astrocytes.**

We have recently described a macroscopic pathway in the central nervous system – the glymphatic system that facilitates the clearance of interstitial waste products from neuronal metabolism. Glymphatic clearance of macromolecules is driven by cerebrospinal fluid (CSF) that flows in along para-arterial spaces and through the brain parenchyma via support from astroglial aquaporin-4 water channels. The glymphatic system is only active during sleep. As such, this circulation represents a novel and unexplored pathway for understanding the biological necessity for sleep.

January 18 (Thu), 2018 15:30-16:30

Center for Integrated Medical Research

1F Lounge

信濃町キャンパス総合医科学研究棟1階ラウンジ

（事前登録不要）No prior registration is necessary

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