

Keio Longevity Initiative Seminar Series

Mechanisms of Axonal Growth and Regeneration

Speaker: Professor Dr. Frank Bradke
Gottfried Wilhelm Leibniz Prize 2016

Neuroregeneration, German Center for Neurodegenerative Diseases (DZNE), Bonn

Coordinator: Hideyuki Okano, MD, PhD



1月24日 (火) Tuesday, January 24, 2017
18:00 – 19:00

信濃町キャンパス総合医科学研究棟1階ラウンジ
Center for Integrated Medical Research
1F Lounge

事前登録不要
No prior registration necessary

Abstract:

Neurons are the cellular basis of the circuits in the nervous system. In these circuits, neurons fulfill very different functions at different part of the cells. They receive signals from cells, integrate these signals and propagate them through their axon to eventually transmit the signals to other cells.

This distribution of specialized functions is possible because neurons have a high degree of asymmetry (or polarity). We want to understand how neurons develop their polarity. How do neurons generate an axon? Addressing this fundamental question will also allow us to reactivate the polarity program under pathological conditions, such as a spinal injury, to induce axon regeneration.

Presented in cooperation with:

