



Invité par le Centre Interdisciplinaire de Recherche
en Biologie du Collège de France.

THOMAS C. SÜDHOF

STANDFORD UNIVERSITY, USA

NOBEL PRIZE IN PHYSIOLOGY OR MEDICINE

Conférences en anglais

Towards a mechanistic understanding of synapse formation

Vendredi 3 février 2023 à 14h30

Amphithéâtre Guillaume Budé

The Sudhof lab major goal is to gain mechanistic insight into how synapses are formed and eliminated during development and throughout life. Towards that goal, Sudhof and his colleagues have identified major surface-signaling proteins that also are adhesion molecules and are key components of a sophisticated nanomachine organizing synapses. Functional disruption of these proteins causes a panoply of synaptic impairments, consistent with the notion that synapses are assembled via the concerted actions of multiple signaling pathways akin to a mosaic in which each individual stone piece contributes to the overall picture. Many of the proteins Sudhof identified are involved in neurological and neuropsychiatric disorders, consistent with a central role for synapses in human diseases.

En libre accès, dans la limite des places disponibles