



Homeostatic Plasticity in Health and Disease

SEMINAR & VISITING SPEAKER SERIES
WORLD WIDE NEURO PLATFORM

DATE

Monday, April 4, 2022
12:00 PM CST

WORLD WIDE NEURO LINK

https://www.crowdcast.io/e/mnn_04April2022_GD

MEETING ID & PASSCODE

None required

SPEAKER

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BIO

Pioneering the field of homeostatic plasticity: My laboratory pioneered the field of homeostatic plasticity, publishing many of the first papers and formal reviews on this topic, beginning in 1997 and continuing to recent publications in 2020. Homeostatic plasticity, broadly defined, refers to endogenous mechanisms that detect and correct perturbations that adversely affect the nervous system. Perturbations can be of any origin including genetic mutations, environmental perturbation, injury or infection. Homeostatic mechanisms initiate a corrective response, restoring normal brain function in the continued presence of the perturbation. This field has initiated a paradigm shift in modern neuroscience, creating new insight to the cause, progression and variability of neurological and psychiatric disease.

RESEARCH

I will present a summary regarding the identification and characterization of mechanisms of homeostatic plasticity as they relate to the control of synaptic transmission. I will then provide evidence of translation to the mammalian neuromuscular junction and central synapses, and provide tangible links to the etiology of neurological disease.

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