OPEN LECTURE

March 3rd, 2022

Prof. TERJE LØMO

Physiology section, IMB, University of Oslo

Long term potentiation (LTP): Essential in forming interconnected assemblies of engram cells for learning and memory.

Thursday, March 3rd, at 12.00-13.15

Runde Auditorium, ***Domus Medica*** (next to Rikshopitalet and Gaustad Hotel)

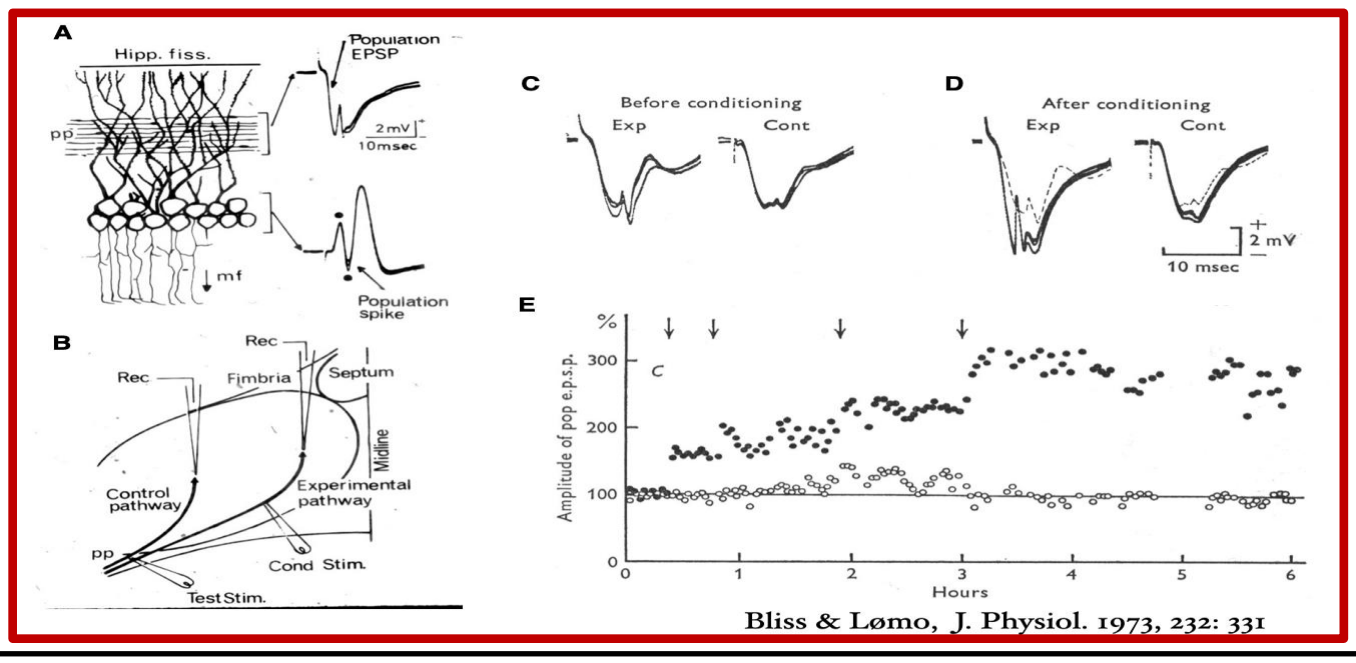
Terje Lømo will lecture about his landmark discovery and first description of *long term potentiation* (LTP) in 1966 and 1973, and the wide range of research that has followed from it. LTP is one of the most important discoveries is modern neuroscience, providing a leading model of learning and memory in the brain, and the best example of Hebb's rule: "Cells that fire together wire together."

12.00 Johan Storm, UiO: ***Welcome***

12.05 Jens-Petter Berg, Research Dean, The Medical Faculty, UiO: ***Introduction***

12.10 Edvard Moser, NTNU: ***On the importance of Terje Lømo's research***

12.15-13.15 Terje Lømo's lecture



From **Bliss & Lømo, *J.Physiol.*1973**

Terje Lømo (born 1935 in Ålesund) is a Norwegian neurophysiologist, known for his studies on synapses, in particular synaptic plasticity. His discovery of the long-term potentiation, along with Tim Bliss, is regarded as a fundamental work in neurophysiology. He was awarded the Medical prize of Anders Jahre in 2003, and is Commander of the Order of St. Olav (2009) and a fellow of the Norwegian Academy of Science and Letters.

References: **Lømo T (1966)** Frequency potentiation of excitatory synaptic activity in the dentate area of the hippocampal formation. *Acta Physiol.Scand*. 68(Suppl. 277), 128.
Bliss T & Lømo T (1973) Long-lasting potentiation of synaptic transmission in the dentate area of the anaesthetized rabbit following stimulation of the perforant path. *J. Physiol.* 232, 331–356.
Lømo T (2018). Discovering long-term potentiation (LTP) recollections and reflections on what came after. *Acta Physiologica.* 222, DOI: 10.1111/apha.12921ISSN 1748-1708.

All are welcome

Johan F. Storm, Svend Davanger, Vidar Jensen, Jørgen Sugar