LES SÉMINAIRES DE L’INMG

Trafficking of T-type calcium channels in health and disease

Par

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Abstract:

T-type calcium channels are key contributors to neuronal physiology where they shape electrical activity of nerve cells and contribute to the release of neurotransmitters. Alteration of T-type channel expression has been causally linked to a number of pathological conditions including neuropathic pain and absence seizure activity. Although a number of signaling pathways regulating the activity of T-type calcium channels have been reported, the molecular machinery and signaling molecules controlling the trafficking and expression of the channel protein at the plasma membrane remain largely unknown. I will present some of the basic mechanisms recently identified controlling the physiological trafficking of T-type channels, and illustrate how metabolic defects or congenital mutations can disturb this trafficking machinery and eventually leading to disease conditions.

Publications:


