



DANDRITE Topical Seminar

Thursday 8 December 2016 at 11.30 - 12.30

Venue to be announced

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Seminar on the Extended Transmembrane Domain 10 of the GABA Transporter GAT-1 enables Efficient Ion-Coupled Transport

The GABA transporter GAT-1 mediates electrogenic transport of its substrate together with sodium and chloride. It is a member of the neurotransmitter:sodium:symporters, which are crucial for synaptic transmission. Compared to all other neurotransmitter:sodium:symporters, GAT-1 and the other members of the GABA transporter subfamily, all contain an extra amino acid residue at or near a conserved glycine in transmembrane segment 10. Therefore, we studied the functional impact of deletion and replacement mutants of Gly-457, and its two adjacent residues in GAT-1 and found that the extension is required for tight coupling of the fluxes of the substrate and the cotransported ions.

Host: Group Leader Poul Nissen, DANDRITE, Dept. of Molecular Biology and Genetics, Aarhus University