MBG FOCUS TALK

hosted by MBG - Structural Biology

MBG Focus Talks in Molecular Biology

Friday 5th October 2018 from 14:00-14:30

MBG conference room (3130-303), Gustav Wieds Vej 10C, 8000 Aarhus C

By Jan Driller

Institute of Chemistry and Biochemistry,
Freie Universität Berlin,
Germany

Shedding light on the architecture of the Drosophila active zone

At presynaptic terminals synaptic vesicles fuse at specialized sites called active zones. Active zones contain a large scaffold of proteins to mediate the docking and priming of synaptic vesicles to the membrane. It is still not entirely clear how these scaffolds assemble, but the large scaffold proteins Bruchpilot and RIM-binding protein seem to play a major role in the organization of the scaffold in Drosophila the cytomatrix of the active zone builds up an electron-dense structure called T-Bar, primarily consisting of Bruchpilot. To uncover protein-protein interactions within these scaffolds we applied a big yeast-two hybrid approach on active zone proteins. Furthermore, we biochemically and structurally characterized Bruchpilot and RIM-binding protein.

Hosted by Assistant Prof. Bjørn P. Pedersen, Dept. Molecular Biology and Genetics, AU

The MBG Focus Talks are organised by
www.mbg.au.dk/talks

DEPT. OF MOLECULAR BIOLOGY AND GENETICS
AARHUS UNIVERSITY