

Seminar announcement

Tuesday 27 September 2022

14.15 – 15.00

Venue:

Via Zoom: <https://aarhusuniversity.zoom.us/j/63804953237>
& in room 1870-816 (faculty club)
Dept. Molecular Biology and Genetics, Aarhus University



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CD59: the gatekeeper to pore formation

The complement membrane attack complex (MAC) is a human immune pore that punches holes in target membranes. During an immune response, CD59 inhibits MAC assembly precursors, sparing human cells from attack. However, there are critical gaps in our understanding of how CD59 blocks MAC assembly and pore formation. By combining structural data with cellular assays and molecular dynamics simulations we explain how the membrane environment impacts the dual roles of CD59 in controlling pore formation of MAC, and as a target of bacterial virulence factors which hijack CD59 to lyse human cells.

Hosted by: Prof. Poul Nissen