

# Joint KJELDGAARD & DANDRITE Lecture

**Thursday 26 October 2017 at 13.15 - 14.00**  
Building 1324, Aud. 011 (Twin Auditoriums),  
Aarhus University



## Radu Aricescu

MRC Laboratory of Molecular Biology,  
Cambridge University,  
Cambridge, U.K.

## Structural Insights into GABAA Receptor Gating Mechanisms

Type-A gamma-aminobutyric acid receptors (GABAARs) are the principal mediators of inhibitory neurotransmission in the human brain. They are known to bind a broad range of endogenous molecules and synthetic drugs, potent sedative, analgesic, anticonvulsant and anaesthetic agents. How these bind and modulate GABAARs remains, however, unknown. I will present recent structural results describing mechanisms of action for several classes of GABAAR ligands, and discuss the new insights these provide into understanding the basic biology of GABA-ergic signalling.

**Host:** Core Group Leader Prof. Poul Nissen, Dept. of Molecular Biology and Genetics,  
DANDRITE - Danish Research Institute of Translational Neuroscience,  
Aarhus University