

# Guest lecture

Thursday, February 13 from 10.15-11.00  
in BMB Seminar room (V18-501-1)

*“Linking RNA Binding Protein functions to ALS/FTLD pathology”*



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## **Abstract**

Following the discovery of TDP-43 involvement in Amyotrophic Lateral Sclerosis (ALS) and Frontotemporal Lobar Dementia (FTLD), the research community has focused a lot of efforts to understand their physiological functions, both in normal and disease conditions. The aim is that this knowledge will improve our understanding of disease and lead to the development of effective therapeutic options that are currently lacking. Initially, the focus has been directed at characterizing the role of this protein in the control of RNA metabolism, because from a structural point of view TDP-43 belongs to the class of heterogeneous RNA binding proteins and can affect almost all steps of an RNA life cycle within cells. As a result, we now have a clear picture of the alterations that occur in RNA metabolism following its aggregation in the patients' brains. Therefore, the aim of this lecture will be to provide a general overview of TDP-43 functional properties and to highlight what could be some of the most promising avenues of research in the years to come.

**Host:** Brage Storstein Andresen, BMB