

Dear friends,

July 21, at 7PM (CET) the young researchers of the [FEBS Junior Sections](#) have organized their seventh [online talk](#) of 2022. This one is coordinated by the Biochemistry in Motion/SEBBM Junior Consuls, the Junior Section of the Spanish Society of Biochemistry and Molecular Biology. It will be an academic talk from **Prof. Mara Dierssen, Center for Genomic Regulation of Barcelona, Spain, titled “The emerging scenario of epigenetic regulation in Down syndrome”**.

Down syndrome (DS) is the most common genetic cause of intellectual disability. Even though great advances in the last decades have allowed better delineation of its pathogenetic mechanisms, its cellular and molecular bases are still poorly understood. Even though there is a clear contribution of the environment to the cognitive impairments of DS, the implication of epigenetic regulation mechanisms is still unknown. Long non-coding RNAs (lncRNAs) comprise a diverse class of transcripts that can regulate molecular and cellular processes in brain development and disease. Interestingly, lncRNAs are involved in learning and memory, they are critical for the adult hippocampal GABAergic circuit, and their association with adult neurogenesis has been established, thus covering several of the DS pathogenicity mechanisms. We will discuss our new findings showing deregulated expression of lncRNAs in the hippocampus of a DS mouse model, the Ts65Dn, and their involvement in DS-specific neuropathology.

Check out the link below to **register** and for more information:

<https://network.febs.org/posts/sebbm-junior-consuls-febs-junior-sections-present-mara-dierssen>

Please join us at the talk and share this information with your peers. If you want to find out more about the FEBS Junior Sections initiative, visit this page:

<https://network.febs.org/posts/room-for-junior-sections-of-febs-societies>

Thank you and best wishes,

The FEBS Junior Sections