Gene regulation at the 3’ end in health and disease: a systems view

Alternative polyadenylation (APA) is an RNA-processing mechanism that generates distinct 3’ termini on mRNAs and other RNA polymerase II transcripts. It is widespread across all eukaryotic species and is recognized as a major mechanism of gene regulation. APA exhibits tissue specificity and is important for cell proliferation and differentiation. In this seminar, I will present our current understanding of APA evolution across species and our new findings on its regulation in trophoblast cell differentiation and its relevance to placental biology and other systems in human body. I will also discuss our recent data aimed at understanding the consequences of APA in modulation of gene expression and mRNA metabolism.

Date:          Monday, November 11th, 2019
Time:         16:00 h
Room:         Biozentrum, room 104
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