



CBI SEMINAR



11h A.M

FRIDAY
November 12TH 2021


Jens Lüders

IRB, Barcelona, Spain

“ Microtubule organization and neural progenitor fate during brain”

During brain development neural progenitor cells undergo a proliferative phase, characterized by symmetric cell divisions that expand the neural progenitor cell pool, before switching to asymmetric divisions, which produce cells that differentiate to form neurons or glial cells. For these processes to occur correctly, the proper organization and function of the microtubule cytoskeleton is crucial. Defects in the microtubule cytoskeleton can impair progenitor proliferation, alter their fate, and interfere with the differentiation and function of neurons, resulting in neurodevelopmental and -degenerative disorders. I will discuss, in the context of cortical development and illustrated by recent findings from my group, how the microtubule cytoskeleton mediates progenitor mitotic spindle assembly and cell division, signalling through the primary cilium, and the formation of axons and dendrites that allow communication between neurons.

<https://www.irbbarcelona.org/en/research/jens-luders>



Salle de Conférence du CBI
169 avenue Marianne Grunberg-
Manago, Toulouse,