



# James Briscoe

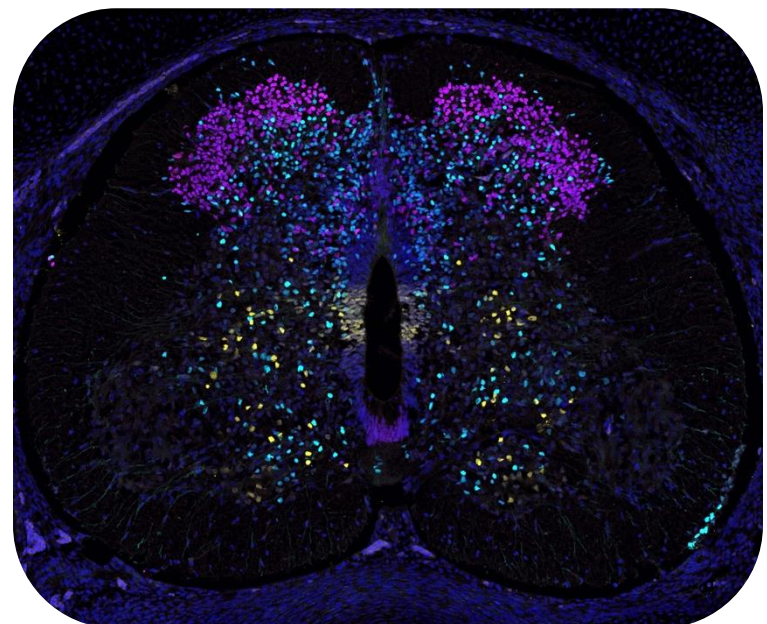
## The Francis Crick Institute

14 October 2025, 12pm  
Barcelona, Charles Darwin – PRBB



### The Dynamics of Spinal Cord Development

We investigate how molecular signals, cellular behaviours, and tissue-level changes integrate to generate distinct neuronal subtypes in a defined spatial pattern in the vertebrate neural tube. We focus on how the morphogen Sonic Hedgehog (Shh) coordinates gene regulatory networks to control cell fate decisions. By combining in vivo and in vitro experimental approaches with computational modelling and theoretical frameworks, we examine how dynamic processes – including tissue growth, cell arrangement, and temporal changes in signalling – contribute to the pattern, pace, precision, and proportions of the developing neural tube.



### Upcoming speakers

Tue, November 18 2025 – Margherita Turco, Friedrich Miescher Institute

A seminar series inviting international researchers, organized by EMBL Barcelona postdocs, open to all

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