

James Briscoe

The Francis Crick Institute

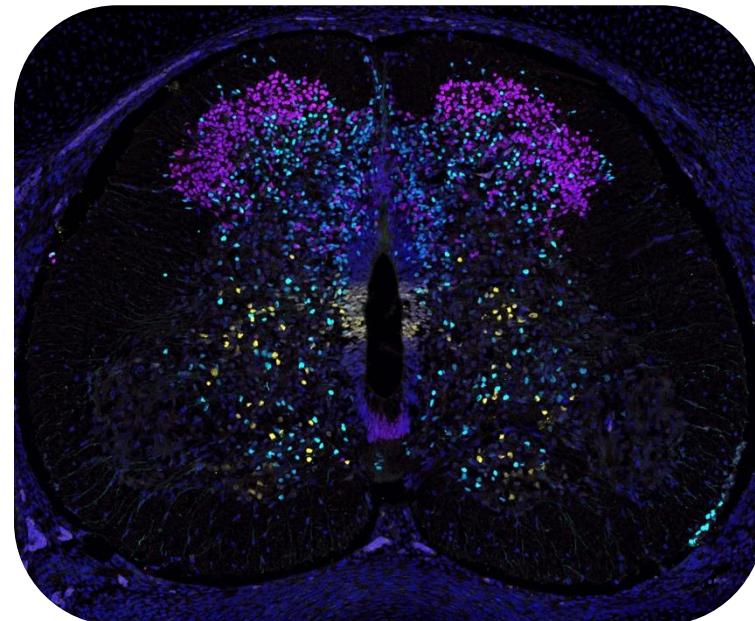


14 October 2025, 12pm

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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