

“Anatomy & development of the adult spinal cord stem cell niche”

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The aim of this project is to characterize the heterogeneous cell populations within the adult mouse spinal cord stem cell niche, investigate the regulation of these cells and determine how they arise during development. A better understanding of endogenous stem cells will inform their potential manipulation for therapeutic effect. The work will apply confocal and super-resolution microscopy, genetic lineage tracing and tissue grafting approaches to provide a detailed description of these critical cell populations in the adult and developing spinal cord.