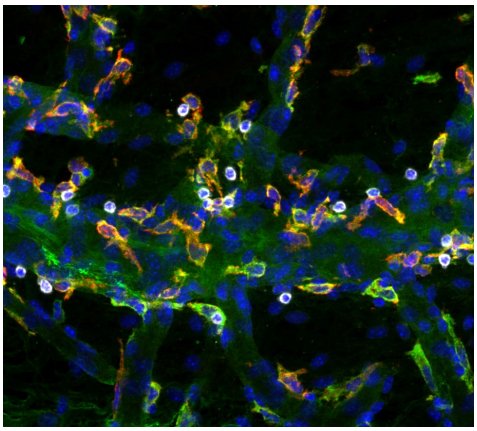
Post-Doctoral Research Position – McCreedy Lab

Department of Biology
Texas A&M Institute for Neuroscience
Texas A&M University
College Station, Texas

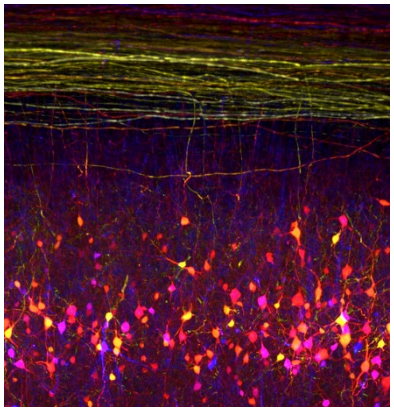
mccreedylab.com



Neutrophils (white) and monocytes (red) in the spinal cord vasculature

The McCreedy Lab has an NIH-funded post-doctoral fellowship position immediately available for a highly motivated individual interested in studying the role of early inflammation in secondary pathogenesis after spinal cord injury (SCI).

Projects include **(1)** investigating how L-selectin, a signaling and adhesion receptor, mediates damaging neutrophil functions in the injured spinal cord; **(2)** developing transgenic labelling, tissue clearing, and 3D imaging methods to study inflammation in whole spinal cord tissue; and **(3)** examining neural circuit damage associated with acute inflammation after SCI.



The McCreedy Lab employs genetic and pharmacological strategies to examine how early inflammation drives secondary pathogenesis, wound healing, and neurologic deficits after SCI. Concurrently, we are developing 3D imaging strategies to characterize spinal cord neural circuits in the intact and injured spinal cord. With the knowledge gained from these studies, we aim to develop novel neuroprotective strategies to reduce inflammatory damage and improve long-term recovery for the spinal cord injured patient.

3D lightsheet image of V2a interneurons in the cleared spinal cord (pseudo-colored by depth)

Requirements: Ph.D. in Neuroscience or related field. Strong organizational, written and oral communications skills. Detail-oriented, independent and excellent interpersonal skills. Ability to multi-task and work cooperatively with others in a supportive and friendly lab environment.

Preferred Skills and Experience: Experience working with small animal models of neurological disease or trauma models. Solid record of research productivity evidenced by multiple publications in quality peer-reviewed journals. Technical expertise in neurobehavior assays, flow cytometry, and/or tissue clearing and lightsheet imaging.

For more information, please visit https://www.mccreedylab.com/positions or contact Dr. Dylan McCreedy at dmccreedy@bio.tamu.edu.

Bryan-College Station, home to Texas A&M University, is a vibrant and rapidly growing community that offers cultural diversity, arts and entertainment, excellent schools, and overall high quality of life. Located in the heart of the Houston-Dallas-Austin triangle, the region offers the modern amenities of a big city with small-town charm and low cost of living, making it an ideal place to live.

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