

[Prof Carmen Melendez's](#) work was recently highlighted in a Multiple Sclerosis Research Program of Department of Defense

The booklet available [here](#) refers to work on Promoting Myelin Formation via Manipulation of Oligodendrocyte Cytoskeleton see pages 6-7



Also the group's paper on

Acute and chronic demyelinated CNS lesions exhibit opposite elastic properties was published in [Scientific Reports](#)

SCIENTIFIC REPORTS

OPEN Acute and chronic demyelinated CNS lesions exhibit opposite elastic properties

Wenwen Li, Vincent J. Martinez, B. Boudreau, & Carmen Melendez-Vasquez

Increased deposition of extracellular matrix (ECM) is a common feature of neural degeneration and repair. However, the mechanical properties of the ECM, including the mechanical properties of the myelin sheath, are not well understood. Here, we used atomic force microscopy (AFM) to measure the mechanical properties of myelin sheaths in acute and chronic demyelinated CNS lesions. We found that the mechanical properties of myelin sheaths in acute demyelinated lesions are significantly stiffer than those in chronic demyelinated lesions. These results suggest that the mechanical properties of myelin sheaths change during the course of demyelination and remyelination, which may have implications for the development of therapies to promote myelin repair.

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