**Seminar Announcement**

**Friday, November 8th, 2019**
12:00 pm – 1:00 pm
Room M3750
Medical College of Wisconsin

**Timothy Meier, Ph.D.**
Assistant Professor
Department of Neurosurgery

**Abstract**

“**Biomarkers for the acute and cumulative effects of sport-related concussion**”

Sport-related concussion (SRC) is a major public health concern given the millions of at risk youth and young adult athletes. Currently, clinical management of SRC is largely dependent on self-reported symptoms, highlighting the need to identify objective biomarkers to track the time course of physiological recovery following SRC. In addition, there is growing concern that repeated concussion and potentially even contact sport exposure without concussion may be associated with adverse outcomes. This talk will describe work aimed at identifying neuroimaging and blood-based biomarkers of the acute and chronic effects of SRC. Recent work characterizing the time course of neurophysiological recovery following a single SRC across different aspects of the neurometabolic cascade of concussion and their relationship with clinical recovery will be highlighted. In addition, emerging evidence supporting the hypothesis that repeated concussion and contact sport exposure are associated with differences in brain structure and function in young, active athletes will be presented.

+++++++++++++++++++++++

Medical College of Wisconsin is located on 8701 N. Watertown Plank Road, Milwaukee, WI 53226. Parking is available across the street in visitor parking.
Refreshments will be served.