



IU BLOOMINGTON

EMERGING AREAS OF RESEARCH

Abstract Template -- Due June 30, 2017

Title of initiative to be proposed:

Concussion Research Core: Unraveling the Neuroscience of Traumatic Brain Injury

Name of lead PI, with title, department/school:

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Key team member names and departments/schools (up to 10 names):

Nicholas Port (School of Optometry)
Sharlene Newman, Franco Pestilli, Tom Busey, Bill Hetrick (Dept of Psychological and Brain Science/ College of Arts and Sciences)
Keisuke Kawata, Carrie Docherty (Dept of Kinesiology & Graduate Program in Athletic Training / School of Public Health)

Description of area to be proposed. What constitutes this area of research or creative activity as emerging?
(Word limit=500)

Research on mild traumatic brain injury (mTBI) / concussion has been increasing rapidly in importance and urgency as awareness grows of the widespread occurrence and potentially serious long term consequences of this injury. This has led to major research initiatives at the NIH, DOD, and other research funding sources. The goal of this proposal is to recruit three faculty members with expertise in concussion. Our focus will be on researchers working toward better diagnosis and treatment, as well as basic research into its pathophysiology and prevention. These new hires will have the option to be housed in the planned Sports Sciences Institute (SSI), the new laboratory space under construction in the south end zone edition of Memorial Stadium. In addition to athletes, high rates of concussion are seen among first responders, military personnel, and accident victims. The job advertisement will therefore be written broadly. Potential recruits could include basic and clinical neuroscientists, as well as scientists in neuroimaging, athletic training / sports medicine, speech and hearing, neuroengineering, and kinesiology. Those employing both human and animal research models will be encouraged to apply. With the support of the Emerging Areas of Research fund program (EAR) and the IU SSI, we are confident that we will be able to hire the best scientists in this emerging and exciting field, creating a world class research program for the highly visible and widely relevant study of concussion. This proposal capitalizes and builds upon IU's growing reputation in concussion research. With the support of EAR and IU SSI, we are confident that we will be able to hire the best scientists in the emerging and exciting field, creating a world class research program for the highly visible and widely relevant study of concussion.

Please submit to earprogram@indiana.edu