Veterinary Medicine

Jackson

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Research Fields:

- Spinal Cord Injury
- Neurobiology

Collaborations:

- Dr. Jean-Peduzzi-Nelson
  Wayne State
  School of Medicine

Biographical Sketch:

Dr. Jackson is a member of the Department Biomedical Sciences, College of Veterinary Medicine, Tuskegee University. She attended Vanderbilt University (B.S. Biology and B.S. Psychology), University of Alabama at Birmingham (Ph.D., Physiological Optics). Her postdoctoral work was in the Dept. of Ophthalmology at the University of Alabama at Birmingham. Her early research focused on the mechanisms that guide visual cortical neurogenesis and development, while later work expanded her interests in neuroplasticity to focus on the treatment of spinal cord and traumatic brain injury. Central to these studies were the use of gene therapy and cytokine approaches to limiting the secondary spread of neurological damage following insult to the central nervous system. Essential elements of this work included microsurgery, immunopathological analysis and confocal microscopy, and the development of behavioral testing techniques. Since arriving at Tuskegee, she has worked on the neuropathological effects of mercury in the central nervous system. Dr. Jackson provides instruction in human anatomy and physiology as well teaching the human gross anatomy dissection courses and human neurology. She serves as the advisor to the TUSVM Canine Club and as a coach for area students participating in the Science Olympiad and other scholastic competitions.

Representative Publications:

1. Jackson, C. A., J. D. Peduzzi, and T. L. Hickey. Visual cortex development in the ferret. I. Genesis and migration of visual cortical neurons. J. Neuroscience, 9(4): 1242-1253, 1989.

2. Jackson, C. A., C. Cobbs, J. D. Peduzzi, Miroslav Novak and C. D. Morrow. Repetitive Intrathecal Injections of Poliovirus Replicons Result in Gene Expression in Neurons of the Central Nervous System Without Pathogenesis. Human Gene Therapy, 12:1827-1842, 2001.

3. Jackson, C.A., J.D. Messinger, J.D. Peduzzi, D.C. Ansardi, and C.D. Morrow. 2005. Enhanced functional recovery from spinal cord injury following Intrathecal or Intramuscular administration of poliovirus replicons encoding IL-10. Virology, 336: 173-183.