RESEARCH STUDY:  
ADULT HEALTHY VOLUNTEERS  
NEEDED  
We are looking for healthy volunteers for structural and functional  
Magnetic Resonance Imaging scans of the brain, spinal cord, or  
nerves

WHO:  
Healthy adults volunteers, age 18-80.

WHAT:  
Structural and functional Magnetic Resonance Imaging (sMRI and fMRI) of the brain, spinal  
cord, or nerves. We will ask you to lie still in the MRI while we take pictures of your brain  
and spinal cord. We will also ask you to do a variety of things (like look at pictures and  
movies, or pay attention for a vibration on your skin, or listen to sounds and words, or press  
buttons when you hear certain words or see certain pictures or feel a vibration, or move your  
hands or feet, or other things) during these scans.  
AND  
Electrophysiological Evaluation of the brain, spinal cord, or nerves using Peripheral Nerve  
Stimulation (PNS), and Transcranial Magnetic Stimulation (TMS). We will ask you to sit  
still while we record activities in your nerves. We will also ask you to do a variety of things  
(like tense certain muscles slightly or perform other simple actions). For TMS, a wire coil is  
held over the scalp. A brief electrical current is passed through the coil and creates a  
magnetic pulse that electrically stimulates part of the brain and testing responses in your  
finger muscles. For PNS, a brief electrical current will be applied on your wrist. The  
intensity used for stimulation will be low and you will not experience any movements in  
your fingers.  
Sessions will last 1 hr X 6 visits or 2 hrs X 3 visits or 3 hours x 2 visits) according to  
your availability.

RISKS:  
The effects of magnetic fields in an MRI scanner have been extensively studied, and there  
are no known significant risks with an MRI exam. There are no known long-term risks of  
single pulse TMS.

BENEFITS:  
There is no direct benefit to you from being in this study. This study may benefit others in  
the future by improving methods for the study of nervous system structure and function.

WHERE:  
The International Center for Spinal Cord Injury at Kennedy Krieger Institute  
707 North Broadway, Baltimore, MD

CONTACT:  
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IRB protocol: NA_00001271