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National Heart, Lung and Blood Institute Scientists Win Award

The Mid-Atlantic Region of the Federal Laboratory Consortium this year presented the Regional Excellence in Technology Transfer Award to Drs. Peter Kellman and Elliot McVeigh Laboratory of Cardiac Energetics, National Heart, Lung, and Blood Institute, National Institute of Health for their work on “Accelerated Magnetic Resonance Imaging- (T-SENSE).”

This new, accelerated magnetic resonance imaging (MRI) method reduces the total imaging time for lengthy scans. The method may be used for imaging dynamic events such as heart motion or brain activity. The technology exploits the spatial and temporal correlation of magnetic resonance signals by combining parallel imaging and temporal filtering to achieve a new MRI technique referred to as (TSENSE). The TSENSE method has a higher degree of artifact suppression using parallel imaging and temporal filtering. This discovery provides a robust, accelerated imaging method that tolerates body motion or change in scan plane without the need to reacquire additional reference images. Prior to this discovery, it was difficult to obtain clear images with motion during patient scans, and has enabled the use of parallel imaging acceleration for real-time applications where the scan plane orientation is frequently changed. This improvement has general applicability to imaging various activities in human, (e.g. blood flow, brain activity and heart motion) in a shorter period of time, thus reducing scan time for patients and reduced artifacts that can lead to misdiagnosis of magnetic resonance scans.

One of the most coveted awards in the field of technology transfer, the FLC awards for Excellence in Technology Transfer recognize laboratory employees who have accomplished outstanding work in the process of transferring Federally-developed technology to the marketplace. The award was made on September 15 at the region’s annual meeting.

The Federal Laboratory Consortium is comprised of the technology transfer offices of all of the Federal laboratories throughout the country while its Mid-Atlantic Region focuses on the 70 Federal laboratories in DC, DE, MD, PA, VA and WV.