

Friday, March 6, 2009

Biomedical Sciences: Medical Physics PhD student has research published

Athiraman Hemanthkumar graduated from Oakland University in 2008 with a PhD in **Biomedical Sciences: Medical Physics**. Part of his **dissertation** was published in the March 2009 issue of **Magnetic Resonance in Medicine (Investigation of Relationships Between Transverse Relaxation Rate, Diffusion Coefficient, and Labeled Cell Concentration in Ischemic Rat Brain Using MRI**, Volume 61, Pages 587-594). Hemanthkumar was supervised by Adjunct Associate Professor Quan Jiang and Distinguished Professor **Michael Chopp**. Their paper states that

"**MRI** has been used to evaluate labeled cell migration and distribution. However, quantitative determination of labeled cell concentration using MRI has not been systematically investigated. In the current study, we investigated the relationships between labeled cell concentration and MRI parameters of transverse relaxation rate, R-2, and apparent diffusion coefficient (ADC), in vitro in phantoms and in vivo in rats after stroke....Our study suggests that MRI parameters have the potential to quantitatively determine labeled cell concentration in vivo."

SUMMARY

Athiraman Hemanthkumar graduated from Oakland University in 2008 with a PhD in Biomedical Sciences: Medical Physics.

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