# Post Doctoral Associate

**Date Posted**  
Mar 2, 2020

**Faculty Member**  
Jerry D. Glickson

**Position Type**  
NIH Grant

**Number of Slots**  
1

**School**  
Perelman School of Medicine

**Organization**  
RA-Radiology

**Description**  
We seek qualified candidates for a Post Doctoral Associate position in the Laboratory of Molecular Imaging (LMI) within the Radiology Department at the University of Pennsylvania. In this position, you will be collaborating on a recently funded National Institute of Health research award entitled, Melanoma: Metabolic Biomarkers of Response to Targeted Therapy. Melanoma is currently treated with inhibitors of signaling proteins that send signals for the tumor cells to proliferate. While this method is initially effective in most patients, all patients eventually become resistant to these drugs and have to be treated with other agents. The goal of this project is to develop an imaging method that detects the onset of resistance to these drugs and indicates when treatment should be switched to alternate therapies. The study will also investigate if including a glutaminase inhibitor in the initial treatment regimen can increase or prolong effective therapy. The project utilizes sophisticated metabolomic techniques where data is generated and analyzed using multinuclear magnetic resonance spectroscopy/imaging (MRS/MRI) and liquid chromatography-mass spectrometry (LC-MS) in both murine and human in vitro and in vivo models of melanoma.

**Qualifications**  
Ph.D. recipients with experience or an interest in working with preclinical models of melanoma. Candidates should have a working knowledge of multinuclear magnetic resonance spectroscopy/imaging (MRS/MRI) and liquid chromatography-mass spectrometry (LC-MS) techniques. In addition,
applicants should have excellent verbal, writing and computer communication skills for collaboration with the research team and for disseminating the results of the project. Expertise in cell culture and cellular metabolism is desired.

More information
Radiology Research Overview
Laboratory of Molecular Imaging (LMI)

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