Postdoctoral Opportunity at the Center for Biomedical Imaging

Who We Are
The Center for Biomedical Imaging (CBI) of the Department of Radiology at New York University School of Medicine has a strong and rapidly advancing reputation for collaborative innovation. NIH currently ranks our division in the top ten in the US by funding. Scientists at CBI have access to state-of-the-art clinical Siemens MRI scanners at 1.5 T and 3 T, as well as a PET/MR and a 7 T system.

About the Project
Multinuclear magnetic resonance imaging (MRI) and spectroscopy (MRS) can assess metabolic and microvascular functions in the human tissue. Phosphorus ($^{31}$P) MR can probe specific biological processes directly involved in mitochondrial energy metabolism, while proton ($^1$H) MRI can quantify tissue perfusion. Impairments in energy metabolism or tissue perfusion (or both) occur in many diseases including type 2 diabetes, and can lead to complications such as cognitive impairment or limb amputation.

Our work focuses on the development and implementation of new multinuclear MRI/MRS methods for quantifying metabolic and microvascular functions in the brain and the skeletal muscle. The postdoctoral fellow will have the opportunity to become involved in a broad range of projects that involve pulse-programming, data acquisition and analysis, RF coil-design and construction, and she/he will be able to test the developed technology in an NIH-funded clinical study. The postdoctoral fellow will also have the opportunity to pursue her/his own research interests.

Who We’re Looking For
A highly motivated scientist who works well independently within a dynamic group, is willing to assume a leading role in translational studies, and has strong interpersonal skills to effectively communicate with basic scientists, physicians, and medical staff.

Desired qualifications:
- PhD (granted or soon-to-be-granted) in physics, physical chemistry, biomedical engineering, electrical engineering or related field
- strong background in MR physics
- excellent verbal and written communications skills
- Matlab programming experience (beneficial, but not necessary)
- Pulse programming experience (beneficial, but not necessary)

To Apply
Email your cover letter, a statement of research interests, a CV with full list of publications and contact information for three referees to:
Prodromos (Makis) Parasoglou, PhD
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