



Application for QIBA Project Funding

Title of Proposal: Quantitative Measures of fMRI Reproducibility for Pre-Surgical Planning – Long Term and Functional Reproducibility		
QIBA Committee/Subgroup: fMRI		
NIBIB Task Number(s) which this project addresses: 1,3,5,6,7,9		
Project Coordinator or Lead Investigator Information		
Last Name: DeYoe	First Name: Edgar	Degree(s): PhD
Institution/Company: Medical College of Wisconsin		

Long term and Functional Reproducibility (PI: Edgar DeYoe, PhD)

Project Description: This subproject will provide quantitative measures of reproducibility for a unique set of vision- and motor-related fMRI brain maps using a set of data manipulations, computations, and the AMPLE normalization algorithm that will be standardized in coordination with subproject 1. In addition, this subproject will provide a unique analysis of the reproducibility of fMRI functional specificity and will compare reproducibility measures over different time durations both within and across subjects. The results of this study will help address NIBIB Tasks 1, 3, 6, 7, and 9 in the context of fMRI as a biomarker of brain function/dysfunction.