

**UCSB Brain Imaging Center
3T MRI Research Application**
(Submit to Kiana Sabugo, Psychological & Brain Sciences Department: kianasabugo@ucsb.edu)

New Experiment Renewal Expedited Review

SECTION I: Experimenter Information

Experiment Title: _____

Principal Investigator (Faculty member at UCSB) & contact info: _____

Campus Address: _____

Name/Email of other Researchers or Investigators: (Coordinator, Grad Student, Post doc, RAs):

1. _____
2. _____
3. _____
4. _____

Human Subjects Approval Number: _____ Expiration Date: _____

Please attach copies of the following documents:

- 1) *Human Subject Protocol*
- 2) *Consent Form*
- 3) *Description of experimental design (see nextpage)*
- 4) *CPR Certification (for grad students, post docs, or other operators in training)*

Resources requested:

Number of sessions per subject: _____

Number of subjects: _____

Estimated duration of each imaging session: _____

Scans per session (Check all that apply):

- Localizer
- Coplanar anatomical scan
- T1 MPRAGE (standard T1 weighted 3D high resolution anatomical scan)
- T1 FLASH (standard T1 weighted 3D high res anatomic scan, like a GE SPGR)
- T2 SPACE (standard T2 weighted 3D high resolution anatomical scan)
- Gradient Field Map
- fMRI BOLD (standard 2D Single shot with iPAT GRAPPA) Number of runs: ____
- CMRR fMRI BOLD with Multi-Band
- DTI # of tensors: _____ (minimum 30 recommended)
- DSI with multiple b-values (b0-5,000) # of tensors: _____ (minimum 30 recommended)
- Compressed sensing DSI
- QTI gradient tensor imaging
- USC Arterial Spin Labeling (pCASL)
- Other _____

Total Scanning Hours Requested:

Who will do the imaging? _____

For internal BIC use only: Scan rate: Number of scan hours approved:

Approval from Human Subjects Committee: _____ Effective date: _____

Other comments: _____

SECTION II: Funding Source (Select one of the following four):

This study is funded by an extramural grant administered by UCSB.

Funding Agency: _____ Account to bill: _____

I authorize UCSB BIC to bill directly the above account using electronic accounting. Yes No

This study is funded by another institution.

Name and address of contact to bill studies: _____

This study is supported by startup commitments by the Dean of my school.

Account to bill: _____

I authorize UCSB BIC to bill directly the above account using electronic accounting. Yes No

I am requesting UCSB BIC to subsidize this research as a pilot project.

If subsidized by the BIC, describe plans for obtaining future extramural funding:

SECTION III: Additional funding information (Select all that apply):

Federally funded

ICB: Institute for Collaborative
Biotechnologies

NIH/NIMH: National Institute of
Health/Mental Health

MURI: Multidisciplinary
University Research Initiative

NSF: National Science Foundation

ARMY

US Education

Other: _____

Non-Federally funded

Academic Senate

Private donors (please describe):

Other (please describe): _____

SECTION IV: Stimulus Presentation and Response Detection (Select all that apply):

BOLD screen32 UHD

LCD back-projection

LCD front-projection

Audio stimuli with Siemens headphones

Audio stimuli with MRI Audio In-Ear Tips

Current Designs 932 –fMRI Trigger

Lumina Cedrus Controller (LSC-400B)
- Scanner/BIOPAC fMRI Trigger

Electrodermal Activity (EDA) BIOPAC
MP160

Eye-tracker (EyeLink 1000)

MRI Compatible EEG – Brain Products

Response Detection for Current Designs 932:

Scroll Click Fiber Optic Response Pads
(HHSC-SCRL-1)

6-Button Inline (HHSC- 1x6-L)

4-Button Diamond (HHSC- 1x6-L)

Response Detection for Lumina Cedrus Controller:

4-Button (LS-LH and LS-RH)

2-Button (LS Pair)

Joysticks:

MagConcepts Joystick

Celeritas Fiber Optic Joystick

Special Requests: _____

SECTION V: Data Path (Select one):

How do you want your data?

sftp from MRI center tape archive to local computer CD-ROM External hard drive

Supplemental Description of Experiment Design: In addition to providing the protocol submitted to the IRB and HSC for your human subject approval, please describe, in one page, your proposed experimental paradigm. Include details of the specific design (block, single event, multi-event, continuous), # of trials per event type, randomization procedure, assessment of orthogonality, triggering method, and analysis methods.