

2023 BHI-CAHBIR Full Pilot Research Grant Program for RU-New Brunswick Faculty

The Rutgers Brain Health Institute (BHI) and the Center for Advanced Human Brain Imaging Research (CAHBIR) are pleased to announce the availability of \$50,000 Pilot Research grants to fund RU-New Brunswick faculty in initiating neuroimaging research at CAHBIR.

Objective: There are often barriers to initiating neuroimaging research, including the expense of collecting pilot data, and the need for methodological skills in designing experiments and analyzing data. The **Research Pilot** grants are aimed at aiding RU-New Brunswick faculty in developing research projects that make use of CAHBIR facilities, and to assist in the development of the skills necessary to successfully execute the MRI research. To enhance the ability of researchers to perform funded studies, CAHBIR offers a 10-hr annual workshop aimed at familiarizing researchers with MRI scanning, image processing and analyses. PIs can include several members of their lab as part of the workshop, although priority should be given to individuals who are likely to be present in the lab for several years. Additional support is provided through one-on-one sessions with CAHBIR staff aimed at implementing the funded research project and helping with study design and data analysis. Researchers already possessing sufficient neuroimaging expertise are not required to attend the workshop and can allocate those funds toward data collection and other CAHBIR technical services.

Human Brain Imaging Core facility capabilities: A state-of-the-art research-dedicated 3T Siemens Prisma scanner with 64 and 20 channel head/neck coils, MRI-compatible visual/auditory stimulation and behavior/physiological response equipment including eye tracking, mock scanner, and a contrast agent injector. The core facility also provides expert technical support to users with all levels of experience. More information about CAHBIR is available at <https://sites.rutgers.edu/cahbir/>

Eligibility: The contact PI for the application must be a full-time tenure track or tenured faculty in RU-NB. Funding is provided by the RU-NB chancellor's office. Individuals outside of RU-NB may serve as a co-PI or co-I. Individuals who have previously received funding for CAHBIR pilot awards may apply for additional funding but must provide a sufficient explanation for why a second pilot award is needed, and a description of progress from their original application.

Number of grants available: Up to 3 \$50,000 awards are available.

Application format and budget preparation: **Application format and budget preparation:** All applications should be formatted as an R21 NIH style application (1 **page** Specific Aims and 6 **pages** for the Research Plan). Include Literature Cited, and sections on Protections for Human Subjects and Inclusion of Women, Minorities, and Children. Also include Budget, Budget Justification and NIH Biosketches for all key personnel. Within the Research Plan under the Innovation section please describe explicitly how the pilot funding will promote new collaborations and/or new projects. The application should be single-spaced, and use font/size Arial 11 with 0.5 inch page margins. All applications **must include** the Cover page and submission checklist linked here ([Cover Page Template](#)). The application should be combined into one PDF document with the Cover page in the front and submitted via e-mail to bhi@bhi.rutgers.edu.

Budgets: Of \$50,000 awards, at least \$35,000, must be spent on CAHBIR services, which may include scanner reservations at a rate of \$615/hr, technical support (protocol design/setup at \$150/hr, programming and analyses at \$100/hr), data archiving fee (\$28 per subject) or workshop attendance (\$500 per attendee for MRI workshop provided annually by CAHBIR faculty). The remaining \$15,000 can be used for participant recruitment costs, and support of research personnel (post-doc, graduate students, research coordinator) involved in the grant project. Overhead costs, faculty salaries or equipment purchases are not allowed.

Mock Budget- one year	Number	Cost
Workshop (\$500 per attendee)	4 attendees	\$2,000
CAHBIR Technical Support: Protocol design/setup (\$150 hr)	2 hours	\$300
CAHBIR Technical Support: Programming/analysis/phlebotomy (\$100 hr)	40 hours	\$4,000
Scanner Reservation (\$615 hr)	45 hours	\$27,675
Data Archiving Fee (\$28 per subject)	30	\$840
Participant Fees (\$25 hr)	30 subjects (2 hrs)	\$1500
Research Assistant Effort		\$13,500
Total pilot grant award		\$49,815

RAPSS submission and IRB approvals are not required at the time of initial mini-grant application submission.

The principal investigators of meritorious applications, selected from the scientific review, will be asked to obtain IRB approval for the proposed pilot project **within four months** of being informed of the scientific review results. If a pilot grant is funded, the first \$5,000 can be released to pay for MRI workshop attendance and other CAHBIR services prior to receiving IRB approval. Funds cannot be used for any other purposes prior to obtaining IRB approval. The remaining \$45,000 will be released following approval of the IRB protocol.

CAHBIR staff will help in developing documents for the IRB, especially as it relates to MRI procedures, risks, incidental findings and analyses. The process of IRB approval once a protocol is submitted can take 8 weeks or longer. Regardless of the speed of the IRB, it will be the responsibility of the applicant to obtain the IRB approval within four months of award notice; therefore, it will be critical to begin the IRB application and submission process as soon as your project is selected and respond in a timely manner to address issues raised by the IRB. Because the funding for these mini-grant awards is not open ended, studies that do not obtain IRB approval within 4 months may not be able to receive funding and will be asked to forfeit previously unspent funds.

Review process: All proposals will undergo a review process organized by BHI/CAHBIR. They will have an initial review to judge scientific quality and be assigned a priority score by reviewers. Reviewers may be internal or external to Rutgers but will not be from the same primary department as the applicant. They then will be reviewed by an internal BHI/CAHBIR committee to allocate funds consistent with the long-term strategies for developing human brain imaging research at Rutgers. A main factor in determining funding will be perceived likelihood that the pilot data generated will lead to external funding. Applicants will receive written reviewer critiques.

Post-award reporting: The pilot awardees will be asked to provide evidence of related extramural grant applications within a year of the end date of the award, and outcomes within two-years of the award to gauge the success of the program. All pilot awardees will be required to submit a final progress report within 6 months of the end of the award. This report will include the status of manuscripts arising from the pilot award and grant applications submitted, as well as results obtained and significance of those results. Awardees must acknowledge the BHI-CAHBIR pilot grant program in publications or presentations that result from the pilot grant project. Awardees must also report any extramural awards received as a result of the pilot grant project.

Submission deadline: Applications are due **by April 1, 2023**. Awards will be announced by May 15, 2023. Submissions received after April 1, 2023 will only be evaluated if funds remain after evaluation of on-time applications.

Questions: Questions about the proposals should be directed to david.zald@rutgers.edu