

## Uytensu-Hamilton 22q11 Neuropsychiatry Research Program

### Stanford Applications – Full Proposal Policy

#### ELIGIBILITY

Research must be related to the specific mission of the Stanford MCHRI Uytensu-Hamilton 22q11 Neuropsychiatry Research Awards Program which is to improve the neurocognitive outcomes and behavioral symptoms of 22q11.2 Deletion Syndrome (22q11.2DS). The program specifically seeks to identify strategies with potential for patient impact within 5 years, however short-term and long-term therapeutic approaches and basic science proposals will be considered for funding if the scientific rationale is compelling.

This program will support a wide range of scientific approaches in the following areas listed below. Research proposals relevant to neuropsychiatry and neurodevelopment in 22q11.2DS, and with potential for clinical impact, will be prioritized.

- I. Basic and clinical translational research relevant to neurodevelopment and neuropsychiatry in 22q11.2DS, including but not limited to: neuroscience, genetics and genomics, psychiatry, neuroimmunology, metabolism, gut-brain axis, data science, bioinformatics or computational methodologies utilizing existing data, and novel therapeutics (up to a maximum of **\$150K/year**)
- II. Basic and clinical translational research addressing the wider spectrum of symptoms in 22q11.2DS, including but not limited to: immunology, cardiology, endocrinology, developmental biology, genetics and genomics, and novel

therapeutics (up to a maximum of **\$150K/year**)

Eligible applicants must be Stanford faculty holding Clinician Educator (CE), University Tenure Line (UTL), Research (NTL-Research), or University Medical Line (UML) positions for the duration of the award. A multi-PI approach is strongly encouraged for this initiative where at least two of the lead investigators bring expertise from different disciplines to the project. Collaborations between basic and physician scientists are particularly encouraged. Applications may include co-investigators from other research organizations. Single-PI applications will be considered if the scientific rationale is compelling.

Current or previous award holders of the Stanford MCHRI 22q11.2DS Neuropsychiatry Research Program are eligible to apply, if the end date of their current award falls before the project start date as stated in the Request for Applications (RFA). Resubmission proposals, and new proposals from applicants not funded in previous cycles, are eligible.

This program will fund innovative projects in the following categories:

- **Category A:** Research at Stanford University (up to 4 awards)
- **Category B:** Research external to Stanford University (up to 3 awards)

## APPLICATION

The applicant must submit the following in a single PDF document:

- Cover page (using format provided)
- Lay Summary
- Diversity, Equity, Inclusion, and Justice Statement
- Research Proposal
- Research Team
- IRB Approval Documentation

### Lay Summary:

- Outline the importance and clinical need for the proposed research, using plain language aimed at a general audience. Describe how the proposed research would generate new knowledge of neuropsychiatric disorders associated with 22q11.2DS and the potential therapeutic impact or benefit to people with 22q11.2DS in the short or long term. (250 words maximum).

### Diversity, Equity, Inclusion and Justice statement:

MCHRI is committed to advancing diversity, equity, inclusion, and justice in all aspects of our work supporting research, education and resources in maternal and child health.

- In what ways have you contributed towards and/or demonstrated a commitment to inclusion, equity, and diversity through your academic career, and how do you plan to advance these commitments professionally? (250 words maximum).

### Research Proposal:

- Concise description of the project aims, hypothesis, background, preliminary studies (if available), study design and methods, potential limitations, research team expertise and capabilities, and research timeline.
- Proposals should include a plan for statistical analyses and a brief description of sample size and statistical power calculations.

- Proposals should clearly articulate the relevance to 22q11.2DS and potential for patient impact.
- The proposal should be a maximum six pages text, not including references, and no more than five additional pages of attachments or appendices.

### Research Team:

For all members of the proposal submit:

- NIH Biosketch (including Personal Statement) from the applicant, each co-investigator and collaborator.

### IRB Approval (Approved Before Application):

- IRB application must be submitted *prior* to the MCHRI application submission deadline *and* the IRB review meeting date stated in the MCHRI application. If there is an approval letter, it must be attached with the application. If awarded, the award cannot be approved without the approved protocols. For more information, please see: <http://humansubjects.stanford.edu/>

### Biostatistical Consultation

A biostatistical consult is *required* for all human-based studies and those with power calculations.

As part of a partnership with the Stanford Quantitative Sciences Unit (QSU), MCHRI grant applicants may request services as needed to support the success of their research project (*most services at no charge to the investigator*). Their expertise is available for consultation, the development of grant proposals, and implementation of funded projects. Click [here](#) to submit a request directly to the QSU. Request QSU consults no later than 4 weeks prior to submission deadline.

### MCHRI Resources

The award may be applied towards a MCHRI Clinical Research Coordinator to assist with any or all of the following: IRB applications, regulatory document completion, identification of eligible

subjects, recruitment, enrollment, clinical data collection or sample acquisition, specimen handling/shipping, quality control, adverse event reporting, data entry, oversight of regulatory compliance, etc. Contact MCHRI Administration to [request coordinator services](#).

### **Patient Oriented Research at SCH**

Studies involving patients at Stanford Children's Health (SCH) must contact the SCH Clinical Research Support Office *early in the study design phase* by emailing [crso@stanfordchildrens.org](mailto:crso@stanfordchildrens.org) to ensure hospital units involved can assess feasibility and resource requirements are taken into consideration, including hospital costs. Studies that would occur at SCH without CRSO consultation will not be reviewed or may be asked to resubmit in the next cycle.

### **MCHRI Drug & Device Development (D3) Services**

The MCHRI Drug & Device Development Service was established to provide direct assistance to investigators in every stage of medical product development. Ensuring the project is on track, is targeting a robust market, and inclusive of all elements for regulatory approval are critical fundamentals which serve to expedite the translation of a health technology into the clinical setting. For investigators submitting MCHRI grant applications and interested in utilizing the service, please submit a request via the [service request form](#).

### **Budget Worksheet**

- The applicant must submit a MCHRI Budget Worksheet (using format provided), including all current and potential other sources of funding for the proposed study. The Stanford University Infrastructure Charge is not applicable to external applicants.

### **Video Presentation:**

- The applicant must submit a video presentation providing a summary of the research proposal and study design, including a lay summary. The recording should be submitted in mp4 format, and can be made using e.g. Powerpoint record slide show function, or a Zoom meeting recording. The recording should be a maximum of 5-minutes in duration.

### **AWARD**

*Up to \$150,000 / year* for up to two years. Unexpended funds will be returned to the MCHRI after the performance period (see No-Cost Extensions below).

*Award may be used for:*

- Research personnel
- PI salary
- Computer software (must be justified), supplies or other materials/ services relevant to the research project
- Travel, symposia, or seminars which are an integral part of the proposal

*Award may NOT be used for:*

- Other travel, conference fees, tuition, or classes
- Membership dues, journal subscriptions, books
- Office supplies, ITCC communications
- Poster presentations, abstract submissions
- Computer equipment (e.g. iPads, laptops, tablets, smartphones, and other related technologies), software, or accessories
- Any other indirect research costs including subrecipient F&A costs

### **NO-COST EXTENSIONS**

*Requests must be submitted at least sixty (60) days prior to the end date on the award letter.* Requests are considered on a case-by-case basis. Not all requests are approved. Only one extension is granted per project.

## SELECTION PROCESS AND ASSESSMENT CRITERIA

Proposals are reviewed by the Stanford MCHRI Uytengsu-Hamilton 22q11 Neuropsychiatry Research Awards Program Scientific Advisory Board. Current SAB membership is available on the MCHRI website. Assessments will be based on the NIH Investigator-Initiated Review Criteria – significance, innovation, approach, research environment and investigator team – and the relevance and potential impact of the research on the neuropsychiatric outcomes of 22q11.2DS.

## AWARDEE RESPONSIBILITIES

The PI will take responsibility for the research idea, development methods, supervision and conduct of the study in addition to the following:

- Successful applicants will become members of the Stanford MCHRI Uytengsu-Hamilton 22q11 Neuropsychiatry Research network. The members are expected to attend regular meetings and demonstrate scholarly stewardship within the program through scientific collaboration and intellectual contribution to the programs shared mission.
- Member of MCHRI, keep Stanford Medicine Profile (formerly-CAP) updated, and utilize “Permit PubMed Import” feature.
- Submit reports in a timely manner, including an annual Progress and Financial Report, and a Final Progress and Financial Report within 30 days of the award end date.
- Provide updates in all Progress Reports on funding status from external and/or internal sources.
- Submit progress reports for up to 3 years following the award end date that will include information about grants submitted, publications, employment, and new research funding resulting from this award.

- Present the results of their research when asked.
- Acknowledge the research support of the Stanford Maternal and Child Health Research Institute and Stanford MCHRI Uytengsu-Hamilton 22q11 Neuropsychiatry Research Awards Program in all publications, abstracts, presentations, press releases, and inventions resulting from this award as follows:

*“The project described in this publication was supported by the Stanford Maternal and Child Health Research Institute Uytengsu-Hamilton 22Q11 Neuropsychiatry Research Program.”*

MCHRI award recipients who have not acknowledged the Stanford MCHRI Uytengsu-Hamilton 22q11 Neuropsychiatry Research Awards Program are not eligible for future awards sponsored by the MCHRI.

## TERM OF AWARD

All awardees are limited to a single award of up to 2 years. Should there be a change in the awardee’s role that significantly alters their ability to carry out their responsibilities, the award will be forfeited prior to the completion of the term. However, if there have been unusual occurrences then the awardee may request a deferral or leave of absence from the award; this request will be adjudicated by the Director of the MCHRI. If a deferral is approved, the end date of this award will be adjusted accordingly by MCHRI administration.

## CONTACT

Prior to submission, applicants are welcome to contact the Program Director to discuss their research proposal, feedback from the Scientific Advisory Board, eligibility queries or other issues related to the application.

Rachael Panizzo PhD, Program Director:  
[rpanizzo@stanford.edu](mailto:rpanizzo@stanford.edu) or (650) 721-6720