Program Description

Human genetic and genomic studies produce an avalanche of candidate human disease genes and specific mutations that require validation in vivo. To facilitate testing candidate pediatric disease genes, generation of new zebrafish pediatric disease models and piloting chemical screens, the Children's Discovery Institute has funded a three-year proposal to establish a Zebrafish Models for Pediatric Research Cooperative of several WUSM core facilities, including: Fish Facility (FF), Genome Technology Access Center (GTAC), Genome Engineering and iPSC Core (GEiC), WU High Throughput Screening Core (HTS), Molecular Vectors Core (MVC), and WU Center for Cellular Imaging (WUCCI).

The CDI award will support the following types of projects:

- Design and construction of guide RNAs and DNA constructs for gene disruption, editing and transgenesis
- Generation, genotyping, maintenance and cryopreservation of zebrafish models
- DNA sequencing and indel analysis
- Gene expression and epigenetic profiling
- Pilot chemical screens

The Zebrafish Models for Pediatric Research Cooperative will enable new projects that utilize zebrafish to understand, diagnose, and develop treatments for birth defects and pediatric diseases. The maximum grant amount is $10,000 per project. An investigator may have only one project within the same year.

Eligibility

Awardees must hold a faculty appointment at the Instructor or Assistant Professor level and above at Washington University in St. Louis School of Medicine. Research must use the zebrafish model and seek answers to pediatric disease-related questions.

Terms

Micro-grants will be awarded up to $10,000. Funding is anticipated to start October 15, 2020, for and end June 30, 2021. Funds remaining at the end of the funding period will be relinquished. Successful proposals must be approved, if applicable, by the Animal Studies Committee, Biosafety and/or Radiation Safety Committees before an account can be established. Approvals may be pending at the time of application. The micro-grant may not include salary coverage or supplies of any kind. The grant is only eligible to pay for services performed (100% of cost) from a ZRSC Core: FF, GTAC, GEiC, HTSC, MVC, and WUCCI. Grantees are expected to cite CDI support for all publications, press releases or presentations citing results from this micro-grant and must include the following acknowledgement: “Funding for this project was provided by the Children’s Discovery Institute of Washington University and St. Louis Children’s Hospital.” A final report will be required at the end of the grant period.
**Deadlines**

Applications are to be submitted electronically by **5 pm on September 30, 2020** to:

ZRSC Micro-Grant Review Committee  
c/o Toni Hill  
Email: tonihill@wustl.edu

**Instructions**

To apply for a micro-grant, please submit a **combined** PDF File of the CDI Project Proposal Form for Micro-grants provided by ZRSC along with a project description/summary to tonihill@wustl.edu.

Components of the form include:

- **Date**: enter date
- **Principle Investigator**: enter PI name
- **Email**: enter PI email address
- **Phone #**: enter PI phone #
- **Dept #**: enter PI dept #
- **Dept Admin (DA)**: enter the PI's dept administrator
- **DA email**: enter DA email address
- **DA phone**: enter DA phone number
- **Project Name**: Enter the name of your project
- **Check Applicable Cores**: Check all the cores you expect to utilize in your project
- **Total Budget**: Enter budget, not to exceed $10,000
- **Animal Protocol**: Indicate whether you plan to use the FF Core protocol for your project or if you have/will obtain your own
- **Pediatric research**: Provide a summary of how this project will benefit pediatric research, not to exceed 100 words

Project description/summary:

- No longer than one page, single spaced with one-half inch margins and Arial font size 11

To obtain approximate project costs and/or request additional information regarding your research project, contact the applicable core:

- FF Core, Isa Roszko, roszkoi@wustl.edu
- GTAC Core, Richard Head, rhead@wustl.edu
- GEiC Core, Xiaoxia Cui, x.cui@wustl.edu
- HTSC, Maxine Ilagan, ilaganmg@wustl.edu
- TVC, Renate Lewis, lewisr@wustl.edu
- WUCCI Core, James Fitzpatrick, fitzp@wustl.edu