|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PD/PI and level of effort (person-months):** | |  | | |
| **Project Title:** |  | | | |
| **Source of Support:** *(include name of sponsor, grant number and project designation)* | | |  | |
| **Indication of funding status** *(funded or pending)* | | |  | |
| **Period of support:** *(mm/dd/yyyy - mm/dd/yyyy)* | | |  | |
| **Total first year or current 12-month budget:** *(direct costs)* | | | | **$** |
| **Total project cost:** *(including indirect costs)* | | | **$** | |

**Brief description of project:** (*project abstract can be inserted here)*

**Relevance of the project to P50 center mission and IDD research:**

**Core Units to be Accessed:** *(check the Core(s) and each component you will be using on following page)*

(Do not remove this box/for office use only)

# **Core Units to be Accessed**

Each Research Project must utilize at least two cores of the IDDRC, which may include the administrative Core and/or the Clinical Translational Core. SEE CORE DESCRIPTIONS ON OUR WEBSITE. **Check the Core(s) and each component that you will be using:**

|  |  |
| --- | --- |
| **Administrative Core (A)** | **Clinical/Translational Core (E)** |
| Seminars; facilitation of collaboration | Human iPSC derived neuron differentiation  Statistical support  Recruitment registry/biorepository  Regulatory/protocol assistance/clinical trial planning  High content screening/assay development  Biomarkers (EEG/MRI)  Human behavioral assessment |
| **Genetic Analysis and Editing Core (B)** | |
| 1. **Genetic Analysis**   In-house Sanger sequencing  SNP Genotyping  Microsatellite Genotyping  Chromosomal microarray analysis  Whole genome mapping of large-scale rearrangements  In-house NGS-based WES  NGS send out  Microarray-based gene expression  Whole tissue RNAseq  Single cell RNAseq  Bioinformatics support | 1. **Gene Editing**   Gene editing CRISPR/Cas9  Embryo Microinjections/Mouse Surgery  ES Cell Culture Reagents  Cryopreservation mouse embryos and sperm  Mouse embryo rederivation |
| **Cellular Imaging Core (C)** | **Animal Behavior and Physiology Core (D)** |
| Super-resolution/STED microscopy  Tissue clearing/CLARITY  Confocal microscopy  Widefield microscopy  2 photon microscopy (in vitro and awake behaving)  Image Analysis | Environmental Control & Manipulation  Plethysmography/ECG  Learning & Memory/Emotion/Communication  EEG/ERG/Microdialysis/Multifiber Photometry  Pain  Motor/Vision/Auditory Measures  Surgery/Dosing/Tissue or Blood Collection |

[IDDRC – BOSTON CHILDREN’S HOSPITAL](https://iddrc.org/)