

Request for Applications

PIIN Cell Engineering Core Pilot Funds Announcement Date: February 27, 2019 Proposal Deadline: April 12th, 2019

Introduction

The Purdue Institute for Integrative Neuroscience (PIIN) is allocating funds to support projects involving use of the [PIIN Cell Engineering Core Facility](#). The core, located in the Bindley Bioscience Center, facilitates research in the life sciences by providing access to induced pluripotent stem cell (iPSC) lines, as well as multiple differentiated cell types derived from human iPSCs. Notably, the core uses cutting-edge technologies to differentiate iPSCs for studies of disease mechanisms in a dish, drug screening, organoid development, and other applications.

Funding can be requested for, but is not limited to, the following Core Facility activities:

1. Derivation of induced pluripotent stem cells (iPSCs) from human somatic cells
2. Differentiation of iPSCs to post-mitotic neurons
3. Genome editing of human iPSCs
4. Development of cell-based assays using differentiated cells from human iPSCs

General Guidelines:

1. Number of applications: Although multiple proposals can be submitted by a PI, only one application from each lab/PI will be funded.
2. Proposal Length: Proposals should be single-spaced and a maximum of 2 pages in length (Arial or similar font at 11 pt), with no less than 1 inch page margins. References are not included in the page limit. The following should be included in the proposal: **specific aims** (i.e. aims of the study involving the use of Core Facility resources); **significance and innovation** of the research; **research plan** (including Core Facility activities and experiments involving the use of Facility resources); and **strategies to leverage outcomes to secure extramural funding**.
3. Budget and Justification (maximum, ½ page): The amount of funding provided to each awardee will depend on the nature of the project and should be determined by consulting with the Core Facility Director, Dr. Jungil Moon, prior to submitting the application. Guidelines for funding levels are as follows: ~\$4,000 for iPSC differentiation, ~\$5,000 for reprogramming, and ~\$10,000 for genome editing. Funds will be provided as a core credit.
4. Timeline: The facility credit must be used within 1 year following acceptance of the award.
5. File format: Only .doc, .docx, or .pdf files will be accepted. Any figures should be embedded in the document and must fit within the maximum page limit.
6. Deadline: Applications must be received by PIIN (neuro@purdue.edu) by 11:59 pm on April 12, 2019 with the title "PIIN Cell Engineering Core RFA" in the subject line. Certification from the Pre-Award Center is not required.

Applicants are encouraged to contact Jung-Il Moon (moon104@purdue.edu) to discuss technical aspects, feasibility, and anticipated costs of projects.