- July 8, 2020

BWH Department of Anesthesiology, Perioperative and Pain Medicine Basic Science Grant

- Goal: Support an investigator dedicated to basic science research that will lead to competitive application for extramural funding
- Budget: Up to $50,000
- Prerequisites:
  - Grantee should have a mentor with a track record of extramural funding or have a track record of funding themselves
  - A mentoring and career development plan is required
- Application process:
  - **Letter of intent due: 8/15/20 at midnight**
    - Up to 1 page, including a brief description of proposed research aims, strategy, and mentor(s). Please submit to Danny Muehlschlegel
  - Invitations will be sent out: 8/30/20
  - **Invited applications due: 9/30/20 at midnight**
  - Grant announcement: 11/01/20

- Deliverables: Bi-annual brief progress reports/Final report; Peer reviewed manuscript; extramural grant application
- Budget:
  - In budget, include supplies and assays up to $50,000
  - Grant will also include the following, which need NOT be specified in budget:
    - Statistical support
    - The equivalent of a 50% postdoctoral salary for 1 year

Criteria:
The following criteria will be used to assessing the proposal narrative:
1. Novelty and significance of the proposal.
2. Presence of clear and justified research methods.
3. Brief review of existing literature in the field, and demonstration of need for research
4. Active engagement of at least one senior mentor who has demonstrated expertise in research (i.e. original research publications, extramural research funding).
5. A rational timeline indicating the ability to complete the project within 1 year.
6. Specific, measurable outcomes to determine success of the project.
7. Evidence suggesting a high probability for external funding.

Grants Information

- Up to 2 Basic Science seed grants will be awarded in 2020
- Applications will close on September 30th, 2020
- The award will be announced on November 1st, 2020. The grant period of 12 months can begin any time in the year granted. Grant recipients are required to present their work to the Department at the conclusion of their grant or after 1 year.

Eligibility

1. Lecturer, Instructor, Assistant, or Associate Professor at the time of award funding
2. MD or PhD or equivalent degree
3. Grants will be judged by the Research Leadership Committee and external reviewers.

Application Materials to be submitted

The entire application should be submitted to Danny Muehlschlegel (jmuehlschlegel@bwh.harvard.edu) as *a single PDF document* with components collated in the following order:

1) **Proposal Cover Sheet (1 page)**
2) **Response to Reviewers (1 page):** only for previously submitted grants, a response to previous critiques must be provided.
3) **Research Plan (3 pages):** The Research Plan must not exceed 3 total pages; lengths listed below do not include references. Any figures or tables should be embedded within the PDF document, not included as separate pages.
   a) Background, Specific Aims and Hypotheses
   b) Research Strategy structured as follows:
      i) Significance
      ii) Innovation
      iii) Approach
         (1) Introduction and Feasibility
         (2) Preliminary Studies (if any)
         (3) Research Design, which should include
            (a) Definition of primary outcome(s)
            (b) A reproducible sample size calculation (power analysis)
            (c) Specific techniques, animal species, data sources etc. that will be used.
            (d) Types of studies to be done, including any considerations to ensure experimental rigor
            (e) Planned methods for statistical analysis.
            (f) Potential problems and limitations, and how they will be addressed.
   c) References (1 page): References will not be counted towards the maximum of 3 pages for the Research Plan.
4) **Budget and Budget Justification (1 page).:** The budget should outline all proposed expenditures for the project and indicate the amount and breakdown for specific items requested, and, if applicable, the amount and breakdown for specific items provided by matching funds.
   a) The budget may include salary support for technicians, research nurses, and other research personnel, equipment, and/or supplies.
   b) Include a brief description of projected costs for different components of the budget, i.e. supplies, animal costs, equipment, salary support.
   c) Travel expenses are not allowed.
   d) Overhead costs do not need to be requested as part of the budget.
   e) No part of the grant may be used for patient costs (except to pay for pertinent laboratory costs), consultant costs, alterations, and renovations.
5) **Career development plan (1 page):** Describes the career goals and objectives, as well as the candidate's plan for career development/training activities during and after the award period. A

clear enumeration of how the project will align with and/or augment the investigator's research path, as well as how it will facilitate further grant funding, should be included.

6) **Letter(s) of support from mentor and all co-investigators (as applicable).**
For an applicant without a track record of funding, a scientific mentor is required. A letter describing the track record of the mentor with regards to success of previous mentees, mentor's sources of research support, commitment of mentor's resources to the applicants' projects, and a mentoring plan must be submitted.

7) **Curriculum Vitae of the PI** (preferably in 5-page NIH biosketch format)

8) **Curriculum Vitae of the Mentor** (preferably in 5-page NIH biosketch format)

PROPOSAL COVER SHEET
Starter Grant

Name: **E-mail Address:**

_____

Proposal Title:

Keywords:

Senior Mentor:

Collaborators:

_____

Other support available for, or likely to be committed to, this project (including funding source, amount, and how it will be used).
_____

This project involves ☐ human subjects ☐ animals. Note: if either human subjects or animal subjects are involved, appropriate IRB or IUCAC approvals must be obtained prior to release of any funds for the project.

I acknowledge that I have read the guidelines, understand the terms and conditions of the grant for which I am applying, and agree to comply with those terms and conditions.

_____   _____
Applicant Signature   **Date**

PROPOSAL CHECKLIST
<u>**Starter Grant**</u>

☐   **Cover Sheet- signed by applicant**

☐   **Research Plan (3 page limit)**

☐   **Budget (1 page)**

☐   **List of References (1 page limit)**

☐   **Career development plan (1 page limit)**

☐   **Mentor letter and other letters of recommendation**

☐   **Curriculum Vitae of the PI (preferably in 5-page NIH biosketch format)**

☐   **Curriculum Vitae of the Mentor (preferably in 5-page NIH biosketch format)**

The proposal should be submitted in no smaller than 12 pt. font, 1.25 line spaced with 0.8" margins. Figures and tables should be embedded in the document. Proposals missing any item or not following the proposal format will be returned.