

# NIDUS PILOT GRANTS OVERVIEW

MICHAEL AVIDAN, MBBCH – [AVIDANM@WUSTL.EDU](mailto:AVIDANM@WUSTL.EDU)

THOMAS ROBINSON, MD – [THOMAS.ROBINSON@UCDENVER.EDU](mailto:THOMAS.ROBINSON@UCDENVER.EDU)

*PILOTS TASK FORCE CO-LEADERS*



## NIDUS

Network for Investigation of  
Delirium : Unifying Scientists

Visit [deliriumnetwork.org/pilots](http://deliriumnetwork.org/pilots) for all information about **NIDUS pilot grant program**

# WEBINAR OVERVIEW



- Goals of NIDUS Pilot Program
- Funding Update
- Who can apply?
  - Junior vs. Experienced Investigators
- Elements of NIDUS Pilot Proposal
- Overview of review process
- Review Criteria
- Q & A

# FUNDING ANNOUNCEMENT



- We have received additional funding from the NIH/NIA to offer **two additional pilot awards** this year!
- We will award a grand total of **FOUR** \$50,000 Pilot Awards

# GOALS OF THE NIDUS PILOT PROGRAM



**Overarching aim:** To support pilot studies to advance innovation in delirium research, targeted to priority areas.

- Why?
  - Advance field towards innovate research areas likely to have strong impact
  - Support new investigators entering the field of delirium research
    - Junior Investigators
    - Investigators established in other areas of research transitioning to delirium

## WHO CAN APPLY?



- **Any researcher interested in pursuing a delirium-focused research program**
  - Open to basic scientists, translational researchers, clinical researchers
  - Does not need to have substantial prior experience in delirium, but should demonstrate commitment to delirium as focus area.
  - Open to early career and experienced investigators (separate application tracks available)
  - Open to international applicants

## JUNIOR INVESTIGATOR TRACK



- Aimed for early-career investigators who plan to dedicate a significant portion of their professional effort on delirium.
- No more than 10 years from completion of final training degree (e.g. physician board certification, PhD, nursing degree, etc.)
- Not intended for investigators who have received significant extramural funding such as NIH R-awards, K23, K08, K12, KL2 or AHA Young Investigator Awards.
- Must have appropriately-qualified mentor.
- Should have at least 50% protected time to pursue research.
- Application includes submission of mentor statement and career development plan

## EXPERIENCED INVESTIGATOR TRACK



- Aimed at experienced researchers who aim to use the pilot money to develop ongoing scientific investigations to further delirium research.
- Should have track record of successful prior funding (does not need to be in delirium specifically)
- Should have completed training (e.g. fellowships, PhD studies, post-doc, etc.)



## PRIORITY AREAS FOR PILOT GRANTS

- 3 priority areas likely to have broad impact on delirium field have been identified:
  - **Interrelationship of delirium and dementia**: Research that will provide greater insight to the relationship between delirium and dementia.
  - **Innovative studies to identify more effective prevention or treatment approaches for delirium**: Proposals focused on development of new prevention or treatment strategies for delirium, especially multicomponent approaches.
  - **Elucidating delirium pathophysiology**: Research that will shed light on underlying pathophysiology and biological mechanisms of delirium, biomarkers, and may involve animal models or basic laboratory approaches.
- **Priority areas not exclusive - proposals related to any aspect of delirium research are eligible and will be considered by reviewers**

# ELEMENTS OF A NIDUS PILOT PROPOSAL



- Title Page
- Abstract
- Scientific Plan
- Career Development Statement (Junior Investigator Track)
- Delirium Research Program Statement
- Appendices

## SCIENTIFIC PLAN

- Main narrative of your pilot proposal
  - Specific aims/hypotheses
  - Background and significance of research topic
  - **Research design and methods**
  - Importance of project for career development or overall research goals

### *Should include:*

- Study design
- Sample inclusion/exclusion criteria
- Statistical Analysis plan
  - Including sample size/power
- Strengths and limitations of design

# HOW CAN THIS ALL FIT IN 3 PAGES?



- Include *focused* background information, specific to your proposed research area
- Methods: Provide enough detail so reviewers can understand and evaluate what you are proposing, but not necessarily step-by-step.
  - If you are proposing use of a novel or uncommon method, may need to provide more information.

# APPENDICES



- References
- PI and co-investigators' NIH biosketches
- Institutional Resources and Environment (1 page)
- Budget (no specific format required)
- Budget justification
- Project timeline with quarterly milestones
- Any other key information

# JUNIOR INVESTIGATOR: CAREER DEVELOPMENT PLAN & MENTOR STATEMENT



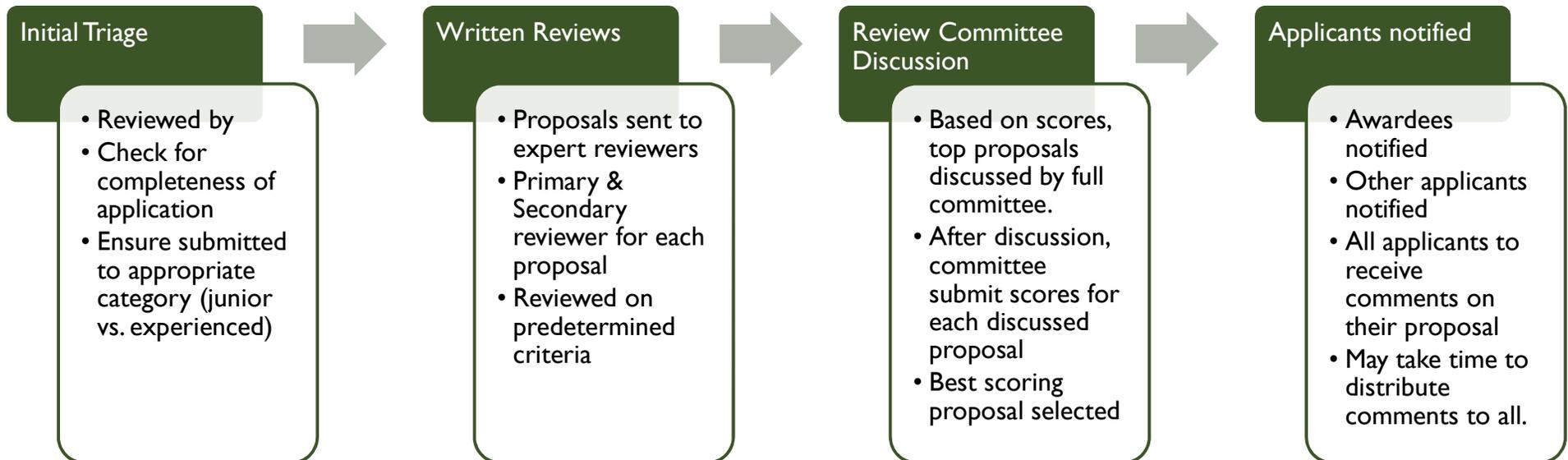
- Career Development plan:
  - Clearly outline how pilot award will contribute to career development
  - Identify how applicant will develop delirium-focused research portfolio
- Mentor Statement:
  - Should be specific and personal to indicate that mentor and mentee have established relationship.
  - Include information on role mentor will play, how often mentor and mentee will meet, etc.

## TIPS FOR APPENDICES



- Biosketches: ensure all biosketches are tailored to specific proposal
- Budget Justification: clearly explain rationale for budget choices. If salary or other costs will be covered from other sources, state clearly in justification.
- Resources and Environment: describe resources available at your institution/research setting including research facilities, available tools/equipment if relevant, educational or career development opportunities.

# GRANT REVIEW PROCESS



# REVIEW CRITERIA



- Criteria reviewed on a 9 point scale (1 = best, 9 = worst)
  - Significance
  - Investigators
  - Innovation
  - Approach
  - Environment
  - Feasibility
  - Evidence of Commitment to Establish a Delirium Research Program
  - Career Development (Junior Investigator Only)
  - Overall Impact

## SIGNIFICANCE: *WILL THE WORK ADVANCE THE FIELD?*



- Does the project address an important problem or critical barrier to progress in the field?
- If the aims of the project are achieved, how will scientific knowledge, technical capability, and/or clinical practice be improved?
- How will successful completion of the aims change the concepts, methods, technologies, or clinical interventions in the field?

# INVESTIGATORS



- Focus on the qualifications and expertise of the members of the research team for the work proposed
  - Do they have the expertise to do the proposed work?
- If the applicant is junior level, do they have appropriate experience and training?
  - Have they lined up the appropriate team to help?
- If established, do they have a track record in the area? NIH funding?
- If the project is collaborative or multi-PD/PI, do the investigators have complementary and integrated expertise?

# INNOVATION



- Is the application novel or does it improve previous work?
- Does the application challenge and seek to shift current research or clinical practice paradigms by utilizing novel concepts, approaches, or methodologies?

# APPROACH



- Are the overall strategy, methodology, and analyses well-reasoned and appropriate to accomplish the specific aims of the project?
- Are potential problems, alternative strategies, and benchmarks for success presented?
- If the project is in the early stages of development, will the strategy establish feasibility and will particularly risky aspects be managed?

## FEASIBILITY – INCLUDED IN ASSESSMENT OF APPROACH



- Is the project overly ambitious?
- Can the aims be achieved?
  - Within the timeline stated?
  - Within the budget given?
- Is there convincing evidence that the work can be done?

# ENVIRONMENT



- Will the scientific environment contribute to the probability of success?
- Are the institutional support, equipment, and other resources adequate for the project?
- Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?

# CAREER DEVELOPMENT



- Does the applicant have a compelling career development plan?
- Does the career development plan include specific information on how the award will contribute to their career trajectory?
- Does the applicant have an appropriate mentor?

## OVERALL IMPACT



- Likelihood for the project to exert a sustained, powerful influence on the research field involved
- Assessment of the strengths and weaknesses outlined for each of the five scored criteria
- An application does not need to be strong in all categories to be judged likely to have major scientific impact

## FREQUENTLY ASKED QUESTIONS

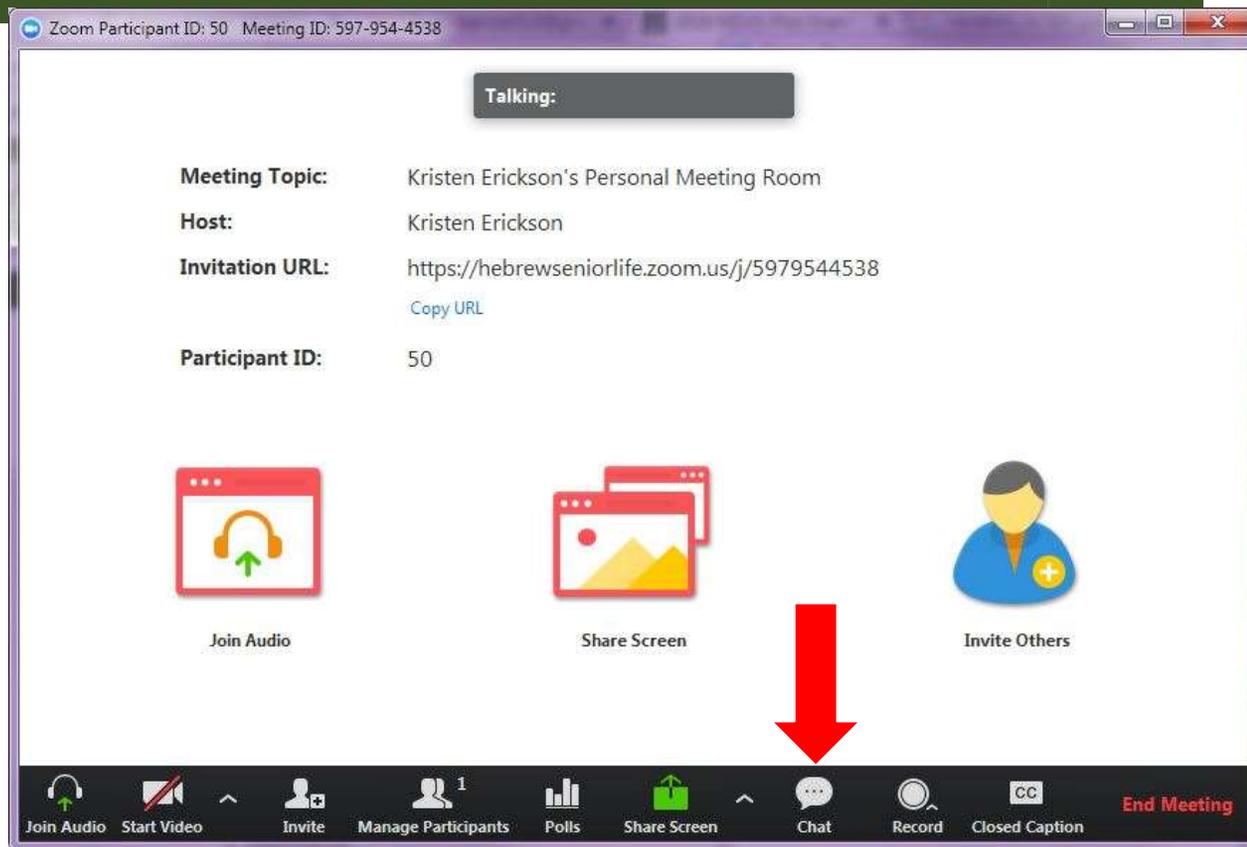


- *Are indirect (F&A) costs covered?*
  - **Yes.** The Pilot award will cover up to \$50,000 direct costs and indirect costs up to 63% for US institutions and 8% for foreign institutions.
- *Can international researchers apply? Do they need a collaborator in the US?*
  - **Yes,** international applicants welcome. A US-based collaborator or coinvestigator is not required.
- *What is the start date if I receive the award?*
  - We are planning for a start date in **April 2020**, but this may be negotiable.

# QUESTIONS?



- Use the chat feature in Zoom to type your questions – we will answer as many as possible
- Emails:
  - [nidus@hsl.Harvard.edu](mailto:nidus@hsl.Harvard.edu)
  - [Avidanm@wustl.edu](mailto:Avidanm@wustl.edu)
  - [Thomas.Robinson@ucdenver.edu](mailto:Thomas.Robinson@ucdenver.edu)
- Website:  
[deliriumnetwork.org/pilots](http://deliriumnetwork.org/pilots)



# ADDITIONAL GRANT WRITING RESOURCES



- [Common Mistakes in Writing Applications](#) (From NIH/NIMH)
- [NIH Sample Applications and More](#) (From NIH/NIAID)
- [Best Practices for Mixed Methods Research](#) (From NIH/OBSSR)
- [Methodological and Statistical Issues in Research Proposals](#) (slides by Richard Jones ScD and Thomas Trivison PhD, presented at 2017 Delirium Boot Camp)
- Note: Many resources listed here are tailored to NIH grant applications, for specific formatting instructions for NIDUS Pilot grants please refer to the instructions on our website.
- **Visit [deliriumnetwork.org/pilots](http://deliriumnetwork.org/pilots) for all information about NIDUS pilot grant program**