



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health



Grant Writing for Success:

Your Funded NIH Application

Roger G. Sorensen, Ph.D., MPA
National Institute on Drug Abuse

NICHD Vulvodynia Pre-Application Webinar, July 22, 2011

Grant Writing Tips



- Grants Process
 - Grant Application Basics
 - Grants Process Overview
 - Types of Grant Programs
 - How to Apply
 - Peer Review Process
 - Award Management
 - Foreign Grants Information
 - NIH Financial Operations

- Electronic Grants
 - Electronic Research Administration (eRA)
 - eRA Commons
 - Applying Electronically

- Global OER Resources
 - Glossary & Acronyms
 - Frequently Used Links
 - Frequent Questions

Grant Writing Tips Sheets

Many [NIH Institutes](#) put out guides and tip sheets on their Web sites. These guides can be useful resources. Here are just a few.

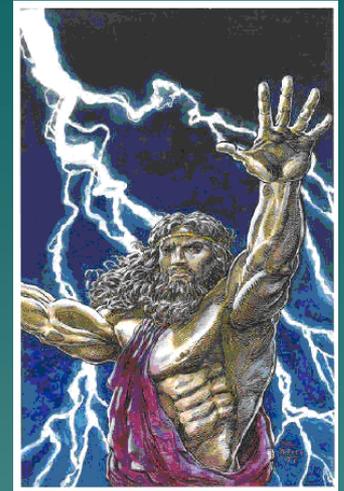
- [All About Grants](#) - Including Grant Application Basics, How to Plan a Grant Application and How to Write a Grant Application.
- [Applying for an NHGRI Grant](#)
- [Choosing an Appropriate NIH Funding Instrument and Funding Mechanism](#) (MS Word - 209 KB)
- [NIH Grants Information CD](#) (PDF - 51 KB)
- [Peer Review Guidelines and Information](#)
- [Peer Review Meetings](#) - Meeting dates, descriptions, rosters, guidelines, etc.
- [Preparing Grant Applications](#)
- [Quick Guide for the Preparation of Grant Applications](#) (Complementary and Alternative Medicine)
- [SBIR/STTR Policy and Grantsmanship Information](#)
- [Tips for New NIH Grant Applicants](#)
- [Writing a Grant](#)

Electronic Media:

- [All About Grants](#) (Podcasts)
- [NIH Grant Review Process Videos](#) (YouTube) [EXIT Disclaimer](#)

http://grants.nih.gov/grants/grant_tips.htm

Urban Myth of Grantsmanship



***It is not a process by which bad ideas
get transformed into good ones ...***

***... rather, it is more often the
case of a good idea disguised as a
bad one.***

Principles of Success

- Understand the peer review process
- Understand the agency mission
 - *NICHD, vulvodynia*
- Secure collaborators (mentors) to complement your expertise and experience
 - Don't compete ... *collaborate!*
- Learn and practice the skills of writing applications for grant funds





Funding

Active Funding Opportunity Announcements (FOAs)

Funding for Research

Funding for Training, Education, & Career Development

Funding News Flashes

Funding Policies and Peer Review

Funding Resources



Active Funding Opportunity Announcements (FOAs) for All NICHD

The NICHD issues Requests for Applications (RFAs) and Program Announcements (PAs/PARs/PASs) related to research grants. Requests for Proposals (RFPs) and contracting opportunities are available through the [Federal Business Opportunities](#) Web site.

The NICHD also participates in [Parent Announcements](#) for unsolicited or investigator-initiated applications. The [NIH Guide Notices](#) provide updates on extramural policy issues related to funding. Possible future funding items are included in the [Planned Funding Announcements](#) section of this site.

The list below includes all active FOAs related to the NICHD. You can view a specific type of FOA by selecting it in the drop-down box below.

Type of FOA:

[PAR-11-257](#)

Systems Developmental Biology for Understanding Embryonic Development and the Ontogeny of Structural Birth Defects (R01)

Expiration Date: October 05, 2013

Application Submission/Receipt Date(s): October 4, 2011, October 4, 2012, October 4, 2013

[RFA-HD-12-204](#)

Sleep and Social Environment: Basic Biopsychosocial Processes (R21)

Expiration Date: October 01, 2011

Application Submission/Receipt Date(s): September 30, 2011

[PA-11-251](#)

Predocutorial and Postdoctoral Training Program in Reproductive, Obstetric, Perinatal and Pediatric Epidemiology and Pharmacoepidemiology (T32)

Expiration Date: May 26, 2012

Application Submission/Receipt Date(s): July 13, 2010, May 25, 2011, May 25, 2012

PAR-10-193

Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Predocutorial Training Program in Systems Biology of Developmental Biology & Birth Defects(T32)

Expiration Date: May 26, 2012

Application Submission/Receipt Date(s): July 13, 2010, May 25, 2011, May 25, 2012

PAR-10-191

Vulvodynia - Systematic Epidemiologic, Etiologic or Therapeutic Studies (R03)

Expiration Date: September 22, 2012

Application Submission/Receipt Date(s): September 21, 2010, September 21, 2011, September 21, 2012

PAR-10-190

Vulvodynia - Systematic Epidemiologic, Etiologic or Therapeutic Studies (R01)

Expiration Date: September 22, 2012

Application Submission/Receipt Date(s): September 21, 2010, September 21, 2011, September 21, 2012

PAR-10-192

Vulvodynia - Systematic Epidemiologic, Etiologic or Therapeutic Studies (R21)

Expiration Date: September 22, 2012

Application Submission/Receipt Date(s): September 21, 2010, September 21, 2011, September 21, 2012

PAR-10-181

Countermeasures Against Chemical Threats (CounterACT) Research Centers of Excellence (U54)

Expiration Date: September 15, 2012

Application Submission/Receipt Date(s): September 14, 2010; September 14, 2011; September 14, 2012

PA-10-176

Advanced Tools and Technologies for Deep Brain Stimulation (SBIR [R43/R44])

Expiration Date: May 08, 2013

Application Submission/Receipt Date(s): Standard dates apply, please see

<http://grants1.nih.gov/grants/funding/submissionschedule.htm>

PA-10-175

R03



R01



R21



Part I Overview Information

The FOA

Department of Health and Human Services

Participating Organizations

National Institutes of Health (NIH), (<http://www.nih.gov>)

Components of Participating Organizations

Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD), (<http://www.nichd.nih.gov>)

Office of Research on Women's Health (ORWH), (<http://orwh.od.nih.gov/>)

Title: **Vulvodynia - Systematic Epidemiologic, Etiologic or Therapeutic Studies (R01)**

Announcement Type

This is a reissue of [PA-07-182](#).

Update: The following updates relating to this announcement have been issued:

- [June 17, 2011](#) - See Notice NOT-HD-11-015 Pre-application Technical Assistance Webinar .
- [September 29, 2010](#) (NOT-OD-11-007) - NIH to Require Use of Updated Electronic Application Forms in 2011. Adobe B1 forms are required for due dates on or after May 8, 2011.
- [August 16, 2010](#) - IMPORTANT NOTE! NIH has eliminated the error correction window for due dates of January 25, 2011 and beyond. As of January 25, all corrections must be complete by the due date for an application to be considered on-time. [See NOT-OD-10-123](#).
- [July 29, 2010](#) - See Notice NOT-HD-10-019 The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) will convene a pre-application workshop for investigators who are planning to submit applications in response to this FOA.

Program Announcement (PA) Number: **PAR-10-190**

NOTICE: Applications submitted in response to this Funding Opportunity Announcement (FOA) for Federal assistance must be submitted electronically through Grants.gov (<http://www.grants.gov>) using the SF424 Research and Related (R&R) forms and the SF424 (R&R) Application Guide.

APPLICATIONS MAY NOT BE SUBMITTED IN PAPER FORMAT.

This FOA must be read in conjunction with the application guidelines included with this announcement in [Grants.gov/Apply for Grants](#) (hereafter called Grants.gov/Apply).

A registration process is necessary before submission and applicants are highly encouraged to start the process at least four (4) weeks prior to the grant submission date. See [Section IV](#).

Apply for Grant Electronically

A compatible version of [Adobe Reader](#) is required for download. For Assistance downloading this or any Grants.gov application package, please contact Grants.gov Customer Support at

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-190.html>

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Catalog of Federal Domestic Assistance Number(s)

93.865

Key Dates

Release/Posted Date: May 7, 2010

Opening Date: August 22, 2010 (Earliest date an application may be submitted to Grants.gov)

Letters of Intent Receipt Date(s): August 20, 2010, August 20, 2011, August 20, 2012

NOTE: On-time submission requires that applications be successfully submitted to Grants.gov no later than 5:00 p.m. local time (of the applicant institution/organization).

Application Due Date(s): September 21, 2010, September 21, 2011, September 21, 2012

Peer Review Date(s): February/March 2011, February/March 2012, February/March 2013

Council Review Date(s): May 2011, May 2012, May 2013

Earliest Anticipated Start Date(s): July 2011, July 2012, July 2013

Additional Information to Be Available Date (Activation Date): Not Applicable

Expiration Date: September 22, 2012

Key Dates

Letters of Intent Receipt Date(s): August 20, 2011

Application Due Date(s): September 21, 2011

.... and your Key Contact

Section VII. Agency Contacts

We encourage your inquiries concerning this funding opportunity and welcome the opportunity areas: scientific/research (program), peer review, and financial or grants management issues:

1. Scientific/Research Contact(s):

Estella Parrott, M.D., M.P.H.

Reproductive Sciences Branch

Center for Population Research

Eunice Kennedy Shriver National Institute of Child Health and Human Development

6100 Executive Boulevard, Room 8B01, MSC 7510

Bethesda, MD 20892-7510

Telephone: (301) 435-6971

Fax: (301) 496-0962

Email: ep61h@nih.gov

Health Information

[A to Z health & human development topics](#)

[Clinical research & clinical trials](#)

[Health education](#)

[Publications & materials](#)

Vulvodynia

What is vulvodynia?

Vulvodynia is a term used to describe chronic pain or discomfort of the [vulva](#).

Health care providers do not know what causes vulvodynia. It is diagnosed when other causes of vulvar pain, such as infection or skin diseases, are ruled out.

NICHD-funded research estimates that as many as 16 percent of women suffer from chronic vulvar pain at some time in their lives.

What are the symptoms of vulvodynia?

The main symptom of vulvodynia is pain. The type of pain can be different for each woman.

Vulvodynia can cause burning, stinging, irritation, or rawness of the vulva. Pain may move around or always be in the same place. It can be constant, or come and go.

What is the treatment for vulvodynia?

There is currently no cure for vulvodynia. But there are treatments for some of the symptoms. Some current treatments include local pain relievers (medications), physical therapy, changes in diet, and drug treatment.

Because each woman's symptoms may be different, no one treatment works all the time or is

Where can I get more information about vulvodynia?

- [Vulvodynia: Toward Understanding a Pain Syndrome](#)

For More Information:

Clinical Trials

- [NICHD Related Clinical Trials](#)
- [All Related Clinical Trials](#)

News Releases

- [Roughly One Quarter of U.S. Women Affected By Pelvic Floor Disorders](#)
- [All Related News](#)

Publications/Materials

- [Vulvodynia Packet](#)
- [Fibromas Uterinos](#)
- [All Related Publications](#)

Web Sites

- [National Vulvodynia Association](#)
- [QRWH - Vulvodynia](#)
- [Pelvic Floor Disorders Network](#)

Contact Information:

NICHD Information Resource Center
Address:

<http://www.nichd.nih.gov/health/topics/Vulvodynia.cfm>

Fax: 301-984-1473
 E-mail:
NICHDIRC@mail.nih.gov

[All Contacts](#)

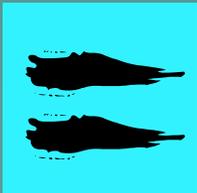


Remember ... *Before you start*

- Talk to Program Staff
 - Identify the grant mechanism
 - Discuss your research ideas
 - Determine your audience – the review committee
- Read instructions for application form
 - *SF 424 Research and Related (R&R)*
- *Propose research about which you are passionate and totally committed to doing*



The Formula for Writing a Successful Grant Application





Good Idea



Good Idea

- Does it address an important problem?
- **Will scientific knowledge be advanced?**
- Does it build upon or expand current knowledge?
- Is it feasible ...
 - to implement?
 - to investigate?



Good Grantsmanship



Grant Writing

- **Grant writing is a learned skill**
 - Writing grant applications, standard operating protocols and manuals of procedures that get approved are learned skills
 - Writing manuscripts that get published in peer reviewed journals is a learned skill
- **Grantsmanship is a full time job**
 - Learn about the grant application process



Ask the NIH

- **Contact NIH program staff *early***
 - Assess IC interest & “goodness of fit”
 - Is your proposed research responsive to the PARs?
 - *Ask to review drafts of your application*



Find Collaborators

- **Collaborate** with other investigators
 - Fill gaps in your expertise and training
 - Add critical skills to your team
- **“Team Science”** is the new direction





Get Feedback

- Show your draft application to a colleague
- Show your draft application to a colleague who does not already know what you intend to do
- Show your draft application to a colleague who is not your best friend



Good Presentation



Title & Abstract

- Title
 - Captures the essence of goals and objectives
- Abstract
 - Concise presentation of the project
 - Statement of significance
 - Hypotheses and research questions
 - Methods and analyses
- *The first thing many reviewers will see !*



Address the Review Criteria

1) Overall Impact

2) The 5 core review criteria: research grants

- Significance
- Investigator
- Innovation
- Approach
- Environment

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-025.html>



Impact Score

OVERALL IMPACT is ...

The likelihood for the project to exert a sustained, powerful influence on the research field(s) involved:

- in consideration of the five core review criteria, and
- additional review criteria (as applicable for the project proposed).

Alignment of Application Format with Scored Review Criteria

Scored Review Criteria

Application Section

Significance	Research Strategy a. Significance
Innovation	Research Strategy b. Innovation
Approach	Research Strategy c. Approach
Investigator(s)	Biosketch Personal Statement
Environment	Resources Environment

Developing a Strong Research Plan

Specific Aims Section

- Focused Hypothesis and Research Questions
- Link Hypothesis with Specific Aims
- Keep Specific Aims simple ... *and specific*
- State long-term objectives
- A conceptual model can clarify ideas





Developing a Strong Research Plan

Research Strategy Section

- *Organize to answer 4 essential questions:*
 - What do you intend to do?
 - Why is the work important?
 - What has already been done?
 - How are you going to do the work?



Developing a Strong Research Plan

Significance

- Why is this research important?
- Expands on the specific aims
- Identifies key themes of literature and links to specific aims
- Critically analyzes existing literature
- Documents solid theoretical basis for your study



Developing a Strong Research Plan

Innovation

- Explain how the application challenges and seeks to shift current research or clinical practice paradigms.
- Explain:
 - novel theoretical concepts, approaches or methodologies, instrumentation or interventions,
 - advantages over existing methodologies, instrumentation, or interventions, or
 - refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation, or interventions.

Developing a Strong Research Plan



Approach

Preliminary Studies/Data

- How previous work -- by you, your team, and others -- leads to this study
- Demonstrate your experience, competence and likelihood of continued success
- Must flow logically from literature review and major themes of the problem area



Developing a Strong Research Plan

Approach

Research Design and Methods

- Does your plan flow logically from the literature review and prior studies?
- How will each hypothesis be evaluated?
- Do your measures capture the variables needed to test hypotheses?
- Why did you choose those measures?
- Methods and analyses must match



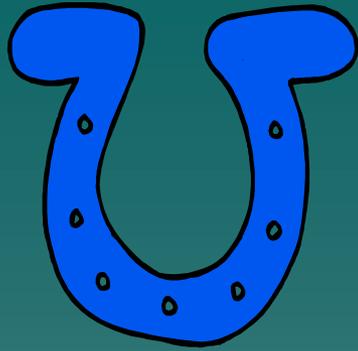
Good Review



Good Review

Keep your reviewers happy

- Reviewers work late at night
- Help them stay alert and interested
- Make your application easy to read and easy to understand
- Convince them to advocate for your idea
 - *Get them on your side!*



Good Luck

Results from:

- Good Ideas
- Good Grantsmanship
- Good Presentation
- Good Review



Grant Writing for Success



“Great science ... resembles great art ... an outstanding scientist has carefully selected a “subject” (the unsolved problem to attack) and the “brushes and paints” (the research strategy and techniques), using them to skillfully create a pleasing original “painting” (a new explanation of some aspect of the natural world).”

ed. Bruce Alberts (2009) Science 326: 205



Top 10 Common Reviewer Concerns

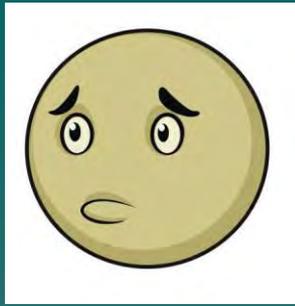
.....or How Not To
Get DINGED!



1 Concern

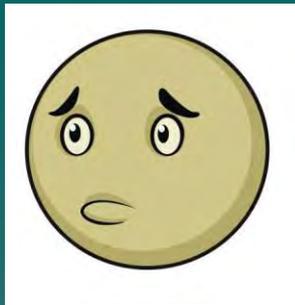
There is not a
CLEAR HYPOTHESIS, or
WELL DEFINED GOALS

- Provide a focused hypothesis, objectives
- Describe the importance and relevance of your problem
- Be clear on how your project will move the field forward



Grant 1

Hypothesis: The proposed research **seeks** to examine the relationship between *neurotransmitter A* and *neurotransmitter B* signaling in *Brain Region of Interest* and in vivo electrophysiological measures of *Brain ROI* output during the transition from chronic morphine exposure to morphine withdrawal.....**additionally seeks** to determine whether putative *Brain ROI* projection neurons exhibit altered basal and behaviorally-correlated firing profiles during these states.....**finally seeks** to determine whether the observed behavioral, neurochemical, and neurophysiological indices associated with morphine dependence and withdrawal are dependent on *Neurotransmitter A* projections to the *Brain ROI*.



Grant 1

SA #1: Examine alterations in *Brain ROI neurotransmitter A* and *neurotransmitter B efflux* in response to acute morphine challenge and withdrawal in morphine-dependent rats

SA #2: Examine alterations in *Brain ROI single-unit neuronal activity* in response to acute morphine challenge....

SA #3: Determine the sensitivity of withdrawal-associated *neurotransmitter A* efflux, single unit neuronal activity, and withdrawal-associated **behaviors** to lesions of the *neurotransmitter A afferent inputs*



Grant 1



Reviewer Comments:

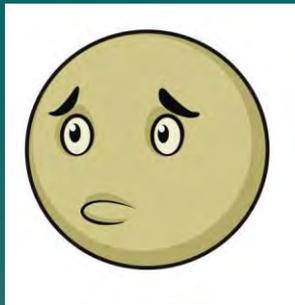
1. This application appears to **lack a hypothesis** driven from a specific mechanism.
2. Enthusiasm ... dampened by the **lack of a specific mechanism**
3.the proposal begins to look more like a **collection of experiments** where the applicants are simply listing experiments according to their expertise in specific techniques
4.**overambitious** nature of the project

2 Concern

The **SPECIFIC AIMS** do **NOT TEST**
the Hypothesis,

The **SPECIFIC AIMS** **DEPEND** on
results from previous aims

- The best proposals are those with independent specific aims (goals) that address your hypothesis (objectives) using different approaches

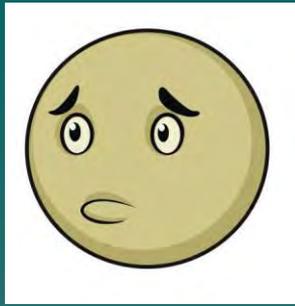


Grant 2

Hypothesis: The increase in *brain* receptor subunits after chronic morphine is an adaptation to reduced tonic *neurotransmitter* release in the *brain region of interest* and elevates the threshold for **opioid analgesia**.

Objective: Study is to design **opioid-based pain relief** paradigms with extended analgesic efficacy and reduced risk of abuse.

Purpose: To determine whether *these brain* receptors are good **targets** for “anti-tolerance” drugs



Grant 2

- SA #1: Determine the **anatomical location(s)** of chronic morphine-induced changes in *brain receptor* subunit levels
- SA #2: Examine the role of *brain receptor subunits* in opioid-induced behaviors **other than analgesia**
- R01
- Requested \$225,000 direct costs / 5 years



Grant 2



Reviewer Comments:

1. Unfortunately, several of the experiments proposed **do not directly test the hypothesis** and may or may not aid in our further understanding of opioid tolerance.
2. ..it is not clear whether such changes would correlate with anti-nociceptive function
3. ..studies proposed in **aim 2 lack rationale**
4. ..there is a **lack of preliminary data** determining whether such studies can be accomplished and whether any significant changes can be measured
5. ..the **literature** reports 15 to 20 different mechanisms demonstrating the inhibition of opioid anti-nociceptive tolerance, yet none of these are addressed ...

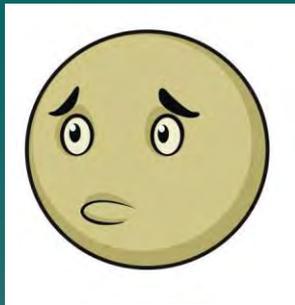
3 Concern

The Proposal is:

NOT MECHANISTIC, or

NOT SCIENTIFICALLY RELEVANT

- Do not propose correlative studies, propose **strong associations**
- Do not propose general observations, propose **specific manipulations**



Grant 3

Hypothesis: *Combined Treatment A/B* group will have a greater reduction in substance use and better outcomes three months after study entry, and lower HIV risk from drug or sexual behaviors

Purpose: Examine the **utility** of a *Combined Treatment A/B* protocol in the [*hospital*] emergency department with persons at risk for drug addiction and its associated health consequences

SA #1: Determine the **impact** of a *Combined Treatment A/B* protocol on substance use, HIV risk reduction, health care utilization, and health status among persons at moderate or high risk for substance abuse seeking treatment in a [*hospital*] emergency department



Grant 3



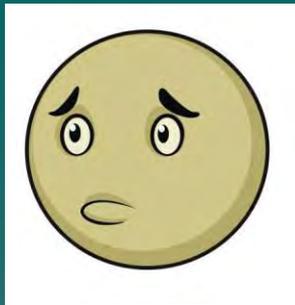
Reviewer Comments:

1. The initial model of care is **not different** from the current practice....thus, it is not clear that this *Combined Treatment A/B protocol* will have an impact of identifying new patients who need counseling.
2. ..the significance of this *Combined Treatment A/B* application is compromised by the **failure to integrate the intervention into existing practice**.
3. The **recruitment process** is not based on a uniform screening protocol (lack of specifics on subject recruitment, interview process, support personnel, follow-up strategy).

4 Concern

This Application is not Appropriate for the Grant Mechanism

- A R21 is **NOT** a R01 is **NOT** a R03
- NIH grant mechanisms have different intents and purposes



Grant 4

Hypothesis: Amphetamine-induced *Behavior A* targets *Transcription Factor X* to dendritic structures such as the spines of pyramidal cells or the dendrites of interneurons of the *Brain ROI*

SA #1: Amphetamine-induced *Behavior A* alters *Transcription Factor X* immunoreactivity in **pyramidal neurons and/or interneurons**

SA #2: Amphetamine-induced *Behavior A* targets *Transcription Factor X* to **dendrites and spines** that receive excitatory synapses



Grant 4



Reviewer Comments:

1. This proposalis somewhat novel, although mainly in the sense that no one previously has examined this issue before in the *Brain ROI*. However, in essence this question reflects more of an **incremental advance** in our knowledge as opposed to the novel ideas targeted by the **R21 mechanism**.

5 Concern

The Proposal is **OVERLY AMBITIOUS**

- Set realistic goals for the budget and project period you propose
- See Grant #1

6 Concern

Preliminary Data is lacking

- Include preliminary data for all aims
- Use preliminary data to:
 - Show knowledge of methods and data analyses
 - Support hypothesis
- But **DO** propose more than just confirming preliminary results

7 Concern

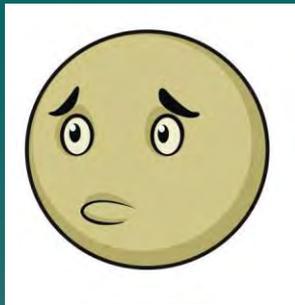
I'm not sure that the Investigator can do the **PROPOSED EXPERIMENTS**

- Don't propose what you can't do
- Include **Collaborators** and **Consultants** on your project
- Describe the value of datasets and experimental models

8 Concern

The Background section is missing key publications and experimental findings

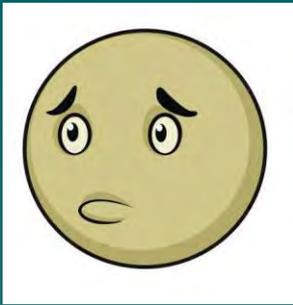
- Thoroughly describe the literature, especially controversies, *but*
- Support your views and ideas
- Be sure you have found key references



Grant 5

Objective: Study is designed to revise and evaluate *Intervention Model A* for homeless adolescents

Purpose: Intervention Model A has been thoroughly developed and standardized for adults, but not as well for adolescents, and certainly not within existing services. This will be a stage I, early treatment development project, with the aim of *refining Intervention Model A for homeless adolescents*



Grant 5

- **SA #1:** Refine the **existing** *Intervention Model A [for adults]* program to **develop** an integrated *Intervention A and Intervention B* treatment program for homeless adolescents presenting symptoms of substance use disorders and self-injury/suicidality
- **SA #2:** Examine the **feasibility** of delivering the *new Integrated Intervention program* within the context of the [*currently used*] youth *Intervention* program recently developed for homeless adolescents
- **SA #3:** Conduct a **pilot study**, comparing *the new Integrated Intervention program* to Treatment-as-Usual in a randomized two group repeated measures design, assessing clients enrolled in [*the currently used*] homeless adolescent *Intervention* program who are experiencing substance abuse use disorder symptoms and suicidality/self-injurious behaviors



Grant 5



Reviewer Comments:

1. ..the application **does not provide a balanced, critical review** of *Intervention Model A* with substance-abusing adults, and why this approach would, in turn, be promising with homeless youth
2. ..there is an almost complete **absence of focus on substance abuse** or the integration of *Intervention Model A* [*previously*] adapted for this problem
3. Other more **serious design problems** include different assessment schedules, attendance burden, and discharge rules between the two conditions
4. ..**inclusion criteria** ...are extremely broad...would seem to introduce enormous heterogeneity to the sample selected
5. What is not well-specified in the application is how the team will decide if the results of the trial warrant the **move to a large efficacy trial.**

9 Concern

Experimental Details, Alternative Approaches, or Interpretation of Data are Inadequately Described

- Don't assume the reviewers know the methods
- Provide other experimental directions you might use should you encounter problems
- Show the reviewers that you have thought about your research plan

10 Concern

**The Proposal is
NOT RELEVANT to the
MISSION of the INSTITUTE**

- Don't try to make your application FIT the Mission of a Particular Institute

Funded Applications





Good Grant 1

Hypothesis: *Chronic drug* exposure upregulates the expression of *Factor X*, which triggers and sustains the exocytotic trafficking and surface expression of functional *Receptor A*

Purpose: To investigate the **molecular mechanisms** for *Factor X*-induced *Receptor A* trafficking



Good Grant 1

- **SA #1:** Determine the **signaling pathways** mediating *Factor X*-induced *Receptor A* trafficking
- **SA #2:** Determine *Factor X* involvement in *drug*-induced *Receptor A* **trafficking**
- **SA #3:** Determine the **synaptic sites** of *Receptor A* trafficking and *Receptor A-B* interactions
- **SA #4:** Determine the **behavioral significance** of emergent *Receptor A* and behavioral *Receptor A-B* interactions



Good Grant 1



Reviewer Comments:

1. Strengths are numerous and include novel and innovative hypotheses, sound experimental design using multidisciplinary approaches, a highly qualified investigator and research team, and a high likelihood of meaningful findings
2. Strengths include the significance of the central hypothesis, the well-designed experimental plan, supportive preliminary data
3. ..the rationale for the studies are clearly delineated, appropriate controls are in place, scope of the studies is appropriate, and there is ... complete discussion of possible limitations of some approaches and how findings will be interpreted



Good Grant 2

Objective: To use ... conceptual and statistical models to address challenges in the development of practical strategies for **measuring the quality of *community treatment* programs**

Purpose: To **extend previous approaches** to casemix adjustment for performance measurement, and the feasibility of valid **outcomes-based performance measurement systems for *community treatment***.

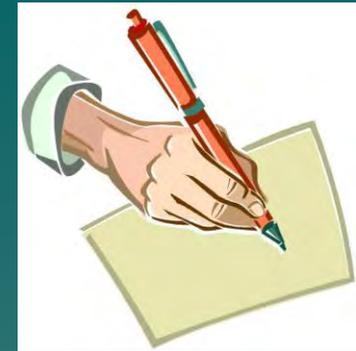


Good Grant 2

- SA #1: Test whether Treatment Program A demonstrates **efficacy** under experimental conditions relative to community-based care programs, can be translated to a set of community-based care programs, and is effective relative to a set of community-based care programs
- SA #2: Identify program features associated with good **client outcomes** which might serve as indicators of the quality of community-based treatment programs
- SA #3: Identify candidate **quality indicators** appropriate for assessing the performance of community-based care programs in serving key client subgroups



Good Grant 2



Reviewer Comments:

1. The evaluation of Treatment Program A .. in real world settings, and the examination of efficacy, translational, and effectiveness outcomes in a single study **represents a highly significant endeavor.**
2. ..the approach to aim 1 is elegant
3. The study has the **potential to address a major gap in treatment services research**, and to guide diffusion of research-based practices to real world settings
4. The **solid design** and measurement aspects of the study and the **innovative** analytical approach ..make this an **exciting** application with the potential for high impact on the field

Lastly.....

Three Simple Rules to
remember when planning,
writing and submitting your
application

1



DO NOT write the application
for yourself,
Unless you are going to fund it
yourself

You **MUST** convince
the entire review committee
and the funding agency

2

***Reviewers are never wrong,
Reviewers are never right:
they simply provide an assessment
of material that you provided
in your application
Don't Take It Personally!***



3

The comments in the summary statement only list some of the weaknesses not all of the weaknesses.

When you revise your application use the time as an opportunity to improve the entire application.





THANK
YOU

