

# “Learning by Doing: A Mock NIH Study Section Meeting for MSTP Students to Learn Peer Review for Grantsmanship”

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Sandra Lee, PhD  
David M. Engman, MD, PhD  
Northwestern University MSTP



# Overview of Learning to Write Research Grants as Med1-2



**Med1 MSTP JC**



**Med2 MSTP JC**



**Public  
Defense and  
Predoctoral  
Fellowship  
Application**



**Write Mini-Proposal  
using JC Article as  
Prelim Data (1-2 Aims)**



**Write First Draft of  
Thesis Proposal  
(2-3 Aims)**



## **Topics in Molecular and Translational Medicine**

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- **Two-year-long course for Med1 and Med2 MSTP students.**
- **Faculty preceptor and student leader for each session (or two).**
- **Student leader gives background, provides transitions, discusses future directions at end; colleagues present figures.**
- **Papers cover all levels of contemporary biology, including stem cell biology, proteomics and genomics, structural biology (NMR, crystallography), systems biology, bioengineering, biologic imaging, etc.**
- **Papers cover all areas of biomedicine, including development and differentiation, inflammation & infectious disease, cancer biology, neurobiology, etc.**

# Peer Review of Research Proposals (Study Section)

## Med1 MSTP JC



Write Mini-Proposal  
using JC Article as  
Prelim Data (1-2 Aims)



View NIH Video on Study  
Section Review & Read NIH  
Handout on Presenting Review

A



B



Group A  
Reviews  
“B”  
Proposals



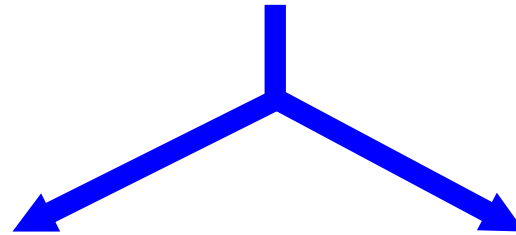
Group B  
Reviews  
“A”  
Proposals

# Public Defense of “First Draft” Thesis Research Proposals

**Med2 MSTP JC**



**Write First Draft of  
Thesis Proposal  
(2-3 Aims)**



**Public  
Presentation and  
Defense of  
Proposal with  
Student and  
Faculty Critiques**

**Submit (and  
possibly  
resubmit)  
Application for  
F30 and Other  
Fellowships**

# F30/F31 Awards to Northwestern Students

Grant Number	PI Name	Project Title
5F31HD049319-03	AJIBOYE, ABIDEMI	Minority Predoctoral Fellowship Program
1F31NS057866-01A1	AMAN, TERESA	Resurgent Na current: regulation and reconstitution in cultured neurons
5F31GM075422-02	APPLEWHITE, DEREK	Minority Predoctoral Fellowship Program
5F31NS055665-02	ARATYN, YVONNE	Dynamics of Fascia in Filopodia
5F30NS051095-02	CIESLAK, JOHN	MthK Potassium Channel Gating Mechanics
5F30NS046942-04	CRAFT, JEFFREY	Neuroinflammation in Alzheimers Disease Murine Models
5F31DK069013-03	DANIELS, CYNTHIA	Scale up and Characterization of Immunoadsorbent Ligands
5F30NS047775-02	ELDREDGE, LAURIE	Egr genes in sympathetic nervous system development
5F31NS052043-03	FULLER, ABBY	Role of Neuroinflammation in Tau Nitration
5F30AA013470-02	HELFAND, BRIAN	Ethanol Induced Changes in Intermed. Filament Transport
5F30NS049760-03	HOROWITZ, PELEG	N-Terminal Cleavage of Tau in Alzheimer's Disease
5F31DC008250-02	HUYCK, JULIA	Auditory Perceptual Development During Adolescence
5F31NS048757-03	HYNGSTROM, ALLISON	Monoaminergic Control of Spinal Interneurons
5F31MH075308-02	JACOBS, RACHEL	Perfectionism in adolescents with depression
5F30NS051962-03	JALALI, ALI	Mechanism and Function of Hejl in Neurogenesis
5F31NS052927-02	JARAMILLO, THOMAS	MINORITY PREDOCTORAL FELLOWSHIP PROGRAM
1F31CA119348-01A1	KOPP, KELLY	The Identification of a Novel MRP RNA-Protein Complex
1F30NS054476-01A1	LENAEUS, MICHAEL	Structural Basis of Potassium Channel Drug Interactions
5F30NS049726-03	LIN, ERICK	NEURONAL MEMBRANE FUSION INDUCED BY HSV-1 GLYCOPROTEINS
5F31MH074291-02	MANDER, BRYCE	The neural response to sleep loss in the elderly
5F31NS053434-02	MATTHEWS, ELIZABETH	The BK current, Ic, and Fast AHP in learning & aging
5F30NS044808-03	MORLEY, JAMES	Polyglutamine expansions and the heat shock response
1F30NS051864-01A1	MUTCH, CHRISTOPHER	The Role of Beta-Catenin in Neural Precursor Cells
1F31AG030965-01A1	O'CONNOR, TRACY	Mechanisms of BACE1 Up-regulation in Response to Energy Deprivation
1F30NS056551-01	PEJCHAL, MARTINA	Loss of Bmal1 in the SCN/brain of adult mice
5F31NS055542-02	PUGH, JASON	Excitatory synapses in the deep cerebellar nuclei
1F31NS058941-01A1	QUIRION, MARY	Regulation of polarized Th responses in EAE by Ikaros
1F30ES015668-01	REDIG, AMANDA	The Protein Kinase C Pathway In Acute Leukemia
5F30NS051043-03	REYNOLDS, MATTHEW	Tau Nitration in Alzheimer's Pathogenesis
5F31NS055557-02	ROGALSKI, EMILY	Memory in Primary Progressive Aphasia
1F31EB007118-01	SALVAY, DAVID	Inductive polymer scaffolds for islet transplantation
5F31NS054395-02	SAYED, BLAYNE	The Role of Mast in a Model of Relapsing-Remitting Multiple Sclerosis
1F30ES014990-01	SIMPSON, CORY	Exfoliative toxin A and desmosomal adhesion in epidermis
5F31MH076579-02	SUTTON, JONATHAN	Impact of chronic stress on emotional disorders
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5F30NS048716-04	ZIEMBA, KRISTINE	Reconstruction of the nigrostriatal pathway

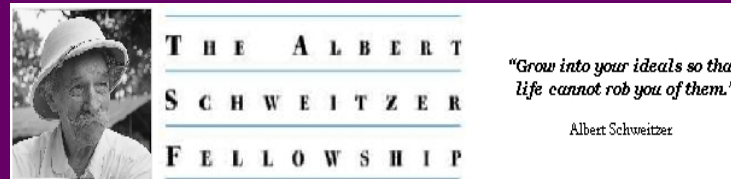
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