

Stimulus Bill & NIH overview

Jaylan S. Turkkan, Ph.D.

AVP Research

jturkkan@sfsu.edu

8-7091

American Recovery and Reinvestment Act of 2009 (Stimulus Bill)

- ◆ \$789 Billion in total stimulus funds
- ◆ Funds for infrastructure, health, education and training, energy, science, student aid
- ◆ No earmarks
- ◆ Money to flow through competitive federal agency processes and through states

National Institutes of Health

\$10.4 Billion to NIH – most to award grants that were skipped this year.

- ◆ \$8.2 B to Office of Director
- ◆ Challenge grants just published: due 4/27. Short proposals, complete-able within 2 years
- ◆ AREA (R15) award program (for universities that normally can't compete for NIH funding) will be expanded – PA in the spring. All but College Sci & Eng are eligible !!!
- ◆ \$400 M for comparative effectiveness research
- ◆ Supplements to components of SCORE

National Science Foundation

\$3 B overall to NSF – most \$ will go toward unfunded proposals

- ◆ \$2.5 B for research and related activities – includes \$300 M for major research instrumentation and \$200 M for academic research facilities modernization
- ◆ \$100 M – education and human resources
- ◆ \$25 M – Math and Science Partnerships
- ◆ \$15 M – Professional Science Master's Programs
- ◆ \$400 M – Major equipment research and facilities construction
- ◆ \$60M Noyce Teacher Scholarship Program

NASA

\$1 B overall to NASA

- ◆ \$400 M -- acceleration of tier 1 science climate research missions recommended by National Academies Decadal Survey
- ◆ \$150 M – system level research development and demonstration activities related to aviation safety, environmental impact mitigation, and Next Generation Air Transportation System
- ◆ \$400 M – Exploration
- ◆ \$50 M – to restore NASA facilities

Department of Energy

\$1.6 B for Office of Science

- ◆ Funds research in areas such as climate science, biofuels, high energy physics, nuclear physics, fusion energy sciences
- ◆ \$400 M for Advanced Research Projects Agency – Energy (ARPA-E) – supports high risk, high payoff research into energy sources and energy efficiency
- ◆ Funding in the behavioral and social sciences of energy use was emphasized at the GRC meeting in Wash DC

National Institute of Science and Technology

\$600 M overall for NIST

- ◆ \$360 -- construction of research buildings -- \$180 M of that amount is for competitive construction grant program for research science buildings
- ◆ \$220 M – scientific and technical research and services

National Endowment for the Arts - NEA

- ◆ \$50M in stimulus monies – to support community arts programs and non profits in the arts.

What should you be doing?

- ◆ Your Dept chair will be getting a notice about Stimulus funding opportunities every week. Hopefully he/she will disseminate.

- ◆ Or, go here:

http://www.sfsu.edu/~orspwww/_preaward/_find/recovery.html and click on the grants.gov link. Automated updates on stimulus opportunities.

Also...

- ◆ If you failed to get awarded this year either NSF or NIH, email your program officer. There may be hope.
- ◆ There is supplement money for awarded grants – stay tuned for next presentation

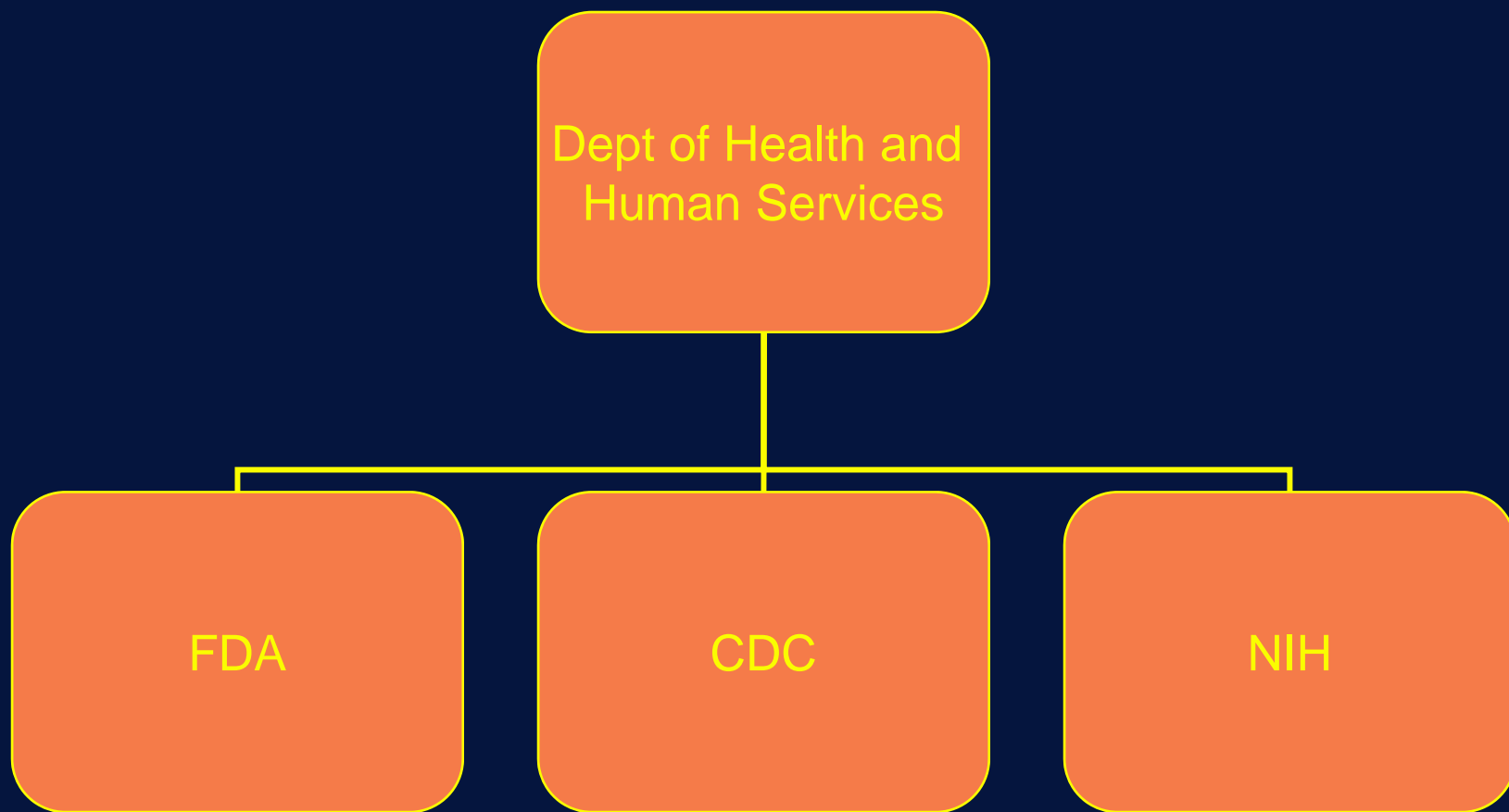
Jackie White – Pre-Award Manager 8-3578
whitej@sfsu.edu

- ◆ The NIH Challenge grants
- ◆ NIH Supplements

NIH “101”

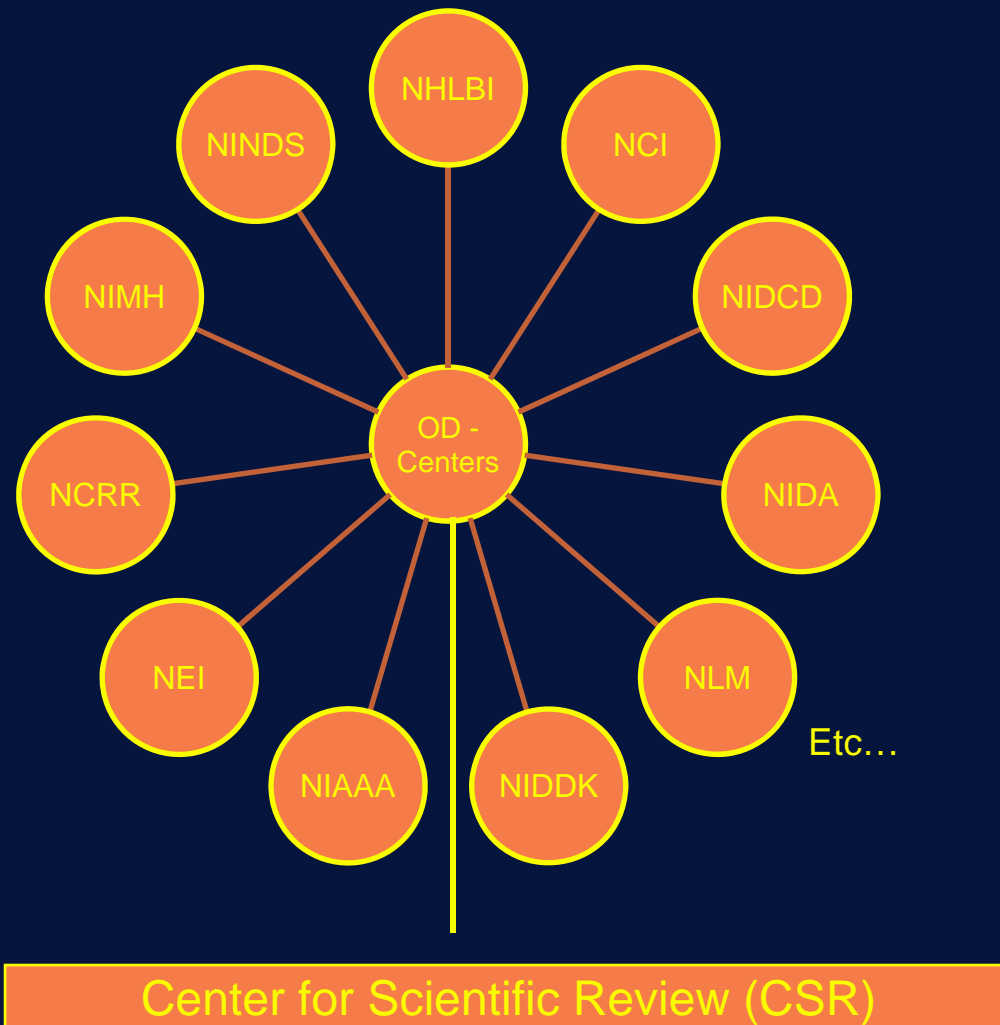
- ◆ What is it? A \$30 Billion agency that funds health-related research from cells to society
- ◆ Faculty like you serve as reviewers and determine the quality of work that is funded
- ◆ Taxpayers like you provide the funding
- ◆ Things to think about before you submit
 - Career prep
 - Homework

DHHS STRUCTURE



Etc...

NIH Structure: Institutes and Centers (I/Cs) develop scientific directions and fund research. CSR reviews proposals.



I/Cs behave proactively and solicit proposals in areas needing development

- ◆ RFA: request for applications. Now termed Funding Opportunity Announcement (FOA). One receipt date with set-aside of \$
- ◆ PA: Program Announcement – indication of I/C interest in an area. No set-aside.
- ◆ PAS: Prog Announcement with \$ set aside
- ◆ PAR: Prog announcement reviewed by the I/Cs themselves, instead of CSR. Unique Institute interest such as tx or rx research.

Granting mechanisms

- ◆ Training grants (T)
- ◆ Fellowships – (F)
- ◆ Career Development (K)
- ◆ Research grant (R)
 - Small (R03)
 - Usual, typical (R01)
 - Exploratory (R21)
 - AREA (R15)
 - Small biz (R41-R44)
- ◆ Centers (P) & Cooperative Agreements (U)

You are ready to write an NIH proposal if you...

- ◆ have a good idea ...PLUS
- ◆ have data that proves it's a good idea ...PLUS
- ◆ have published the findings in a peer reviewed journal or presented at a national mtg with published abstract...PLUS
- ◆ are approaching the proposal from a theory-based or model-based perspective (unless it's exploratory/feasibility testing)

At this point, you should call the NIH.

WHO to call at the NIH

- ◆ Two key people:
 - Program officers in the Institutes – “does this application belong in your program?” Pitch it.
 - Scientific Review Officer (SRO, formerly SRA) – will this application be correctly reviewed in your committee? No pitch.
- ◆ but, do your homework first!

Overarching Considerations Before Starting the Application

◆ Review Group Considerations

- Find out idiosyncrasies of targeted review group

**CENTER FOR SCIENTIFIC REVIEW – view study section rosters
at http://www.csr.nih.gov/Roster_proto/sectionI.asp**

**For example: BIOBEHAVIORAL AND BEHAVIORAL PROCESSES INTEGRATED REVIEW
GROUP (IRG) COMMITTEES**

APDA	Adult Psychopathology and Disorders of Aging Study Section
BRLE	Biobehavioral Regulation, Learning and Ethology Study Section
CP	Cognition and Perception Study Section
CPDD Section	Child Psychopathology and Developmental Disabilities Study Section
* <i>LCOM</i>	<i>Language and Communication Study Section</i>
MESH Section	Biobehavioral Mechanisms of Emotion, Stress and Health Study Section
MFCS	Motor Function, Cognitive Control, and Speech Study Section
MFSR	Motor Function, Speech and Rehabilitation Study Section

Read the descriptions of these IRGs and study their membership. Be tasteful about citing the members' papers in your proposal.

**Committee Membership Roster - LCOM
CENTER FOR SCIENTIFIC REVIEW
LANGUAGE AND COMMUNICATION STUDY SECTION
ROSTER**

CHAIRPERSON

TAGER-FLUSBERG, HELEN B
, PHD (06/30/2009)
PROFESSOR
DEPARTMENT OF ANATOMY AND NEUROBIOLOGY
SCHOOL OF MEDICINE
BOSTON UNIVERSITY
BOSTON, MA 02118

MEMBERS

ALTMANN, GERRY , PHD (06/30/2010)
PROFESSOR
DEPARTMENT OF PSYCHOLOGY
UNIVERSITY OF YORK
HESLINGTON, YORK YO10 5DD,

BEESON, PELAGIE M , PHD (06/30/2011)
ASSOCIATE PROFESSOR
DEPARTMENT OF SPEECH AND HEARING SCIENCES
UNIVERSITY OF ARIZONA
TUCSON, AZ 85721

BIALYSTOK, ELLEN , PHD (06/30/2012)
PROFESSOR
DEPARTMENT OF PSYCHOLOGY
YORK UNIVERSITY
TORONTO, ON M3J 1

CORINA, DAVID P , PHD (06/30/2009)
PROFESSOR
CENTER FOR MIND AND BRAIN
AND DEPARTMENT OF LINGUISTICS
UNIVERSITY OF CALIFORNIA, DAVIS
DAVIS, CA 95616

KUPERBERG, GINA R , MD, PHD (06/30/2012)
ASSOCIATE PROFESSOR/ASSOCIATE
PSYCHIATRIST
DEPARTMENT OF PSYCHIATRY
MASSACHUSETTS GENERAL HOSPITAL
CHARLESTOWN, MA 02129

MORRISON, FRED J , PHD (06/30/2009)
PROFESSOR
DEPARTMENT OF PSYCHOLOGY
UNIVERSITY OF MICHIGAN
ANN ARBOR, MI 48109

NARAYANAN, SHRIKANTH , PHD (06/30/2012)
ANDREW J. VITERBI PROFESSOR
DEPARTMENT OF ELECTRICAL ENGINEERING
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CA 90089

PENA, ELIZABETH D , PHD (06/30/2010)
PROFESSOR
DEPARTMENT OF COMMUNICATION SCIENCES
AND DISORDERS
UNIVERSITY OF TEXAS, AUSTIN
AUSTIN, TX 78705

PUGH, KENNETH R , PHD (06/30/2009)
PRESIDENT AND DIRECTOR OF RESEARCH
HASKINS LABORATORIES
NEW HAVEN, CT 06511

....etc (16 "standing" members, in all)

SCIENTIFIC REVIEW ADMINISTRATOR

NI, WEIJIA , PHD
CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MD 20892

Call this
person

Inside the NIH Grant Review Process



A Video on Peer Review at NIH

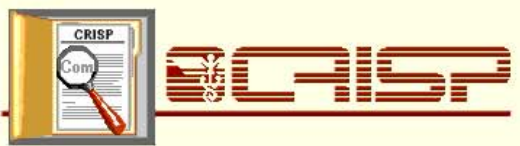
The Center for Scientific Review has produced a video of a mock study section meeting to provide an inside look at how NIH grant applications are reviewed for scientific and technical merit. The video shows how outside experts assess applications and how review meetings are conducted to ensure fairness. The video also includes information on what applicants can do to improve the chances their applications will receive a positive review.

www.csr.nih.gov/Video/Video.asp

More homework: Search the CRISP database!

- ◆ http://crisp.cit.nih.gov/crisp/crisp_query.generate_screen
- ◆ which Institute/Center is *funding* this work?
- ◆ which Study Section is *reviewing* this work?
- ◆ who is funded and actively working in this area? (potential collaborators; avoid direct overlaps)

Version 2.5.2.0



In order to access the CRISP system you must use one of the following browsers with JavaScript enabled, Netscape 3.0 (or later) or Internet Explorer 4.0 (beta or later). Internet Explorer 3.0, despite best programming efforts, is not compatible.

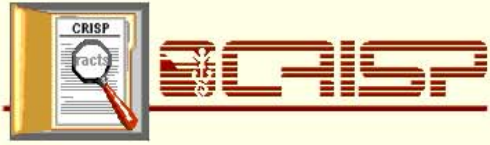
Current and Historical Awards (1972 - 2009) Query Form

Enter Search Terms:	<input type="text"/>
Global Logic:	<input type="radio"/> And <input checked="" type="radio"/> Or <input type="radio"/> Phrase
Expansion Logic:	<input type="radio"/> Stem <input checked="" type="radio"/> None
<input type="button" value="Submit Query"/> <input type="button" value="Clear Query"/>	
Maximum Records:	<input type="text" value="250"/>
Thesaurus:	View CRISP Thesaurus
PI Name (Last, First):	<input type="text"/>
Award Type:	<input type="text" value="All Types"/>
Activity:	<input type="text" value="All Activities"/>
Grant Number:	<input type="text"/>
Grant Title:	<input type="text"/>
IRG:	<input type="text" value="All"/>
Institution:	<input type="text"/>
Fiscal Year:	<input type="text" value="2009"/>
State:	<input type="text" value="All"/>
<input type="button" value="Submit Query"/> <input type="button" value="Clear Query"/>	

Search on
LCOM IRG



Version 2.5.2.0



Hit List

Active awards in 2009, reviewed by LCOM
IRG – note which Institutes funded the
work!

[Back to Search Form](#)

You had 182 hits for the query:

Grant Number	PI Name	Project Title
1R21AG030445-01A1	ALMOR, AMIT	Processing Discourse Reference in Mind and Brain
5R01DC003670-06	BEDROSIAN, JAN	Communicative Competence and the Use of Prestored Text
5R01DC007646-04	BEESON, PELAGIE	Developing Evidence-Based Treatment for Agraphia
1R15DC009027-01A2	BELLON-HARN, MONICA	Amals: Addressing Multiple Aspects of Language Simultaneously: A Randomized Clin
5R01DC003277-10	BERENT, IRIS	Phonological markedness constraints on reading
5R01DC008581-02	BERGESON-DANA, TONYA	Development of Attention to Maternal Speech in Infants with Hearing Loss
5R01HD052523-02	BIALYSTOK, ELLEN	Cognitive and Language development in bilingual children
3R01HD052523-02S1	BIALYSTOK, ELLEN	Cognitive and Language development in bilingual children
5R01NS033576-14	BINDER, JEFFREY	Functional MRI of Human Brain Language Systems
5R01DC000314-23	BLUMSTEIN, SHEILA	Speech and Language Processing in Aphasia
5R01DC006220-05	BLUMSTEIN, SHEILA	Neural Basis of Lexical and Speech Processing
2R01HD042049-05A2	BOOTH, JAMES	Neural Development of Lexical Processing
5R01DC005794-04	BRADLOW, ANN	Production and Perception of Clear Speech
5R01DC007684-03	BRADY, NANCY	Communication Success and AAC: A Model of Symbol Acquisition
5R01DC009045-02	BROWNELL, HIRAM	Metaphor Training Program
5R21NS056272-02	BURDETTE, JONATHAN	MR Imaging and Genotype/Phenotype Associations in a South African Dyslexia Cohort
5R01DC003172-12	BYRD, DANI	Prosody and Articulatory Dynamics in Spoken Language
5R01DC000942-12	CAPLAN, DAVID	Disorders of Syntactic Comprehension
5R01DC002146-11	CAPLAN, DAVID	Functional Neuroimaging Studies of Syntactic Comprehension
5R01DC006842-04	CARAMAZZA, ALFONSO	Cortical Organization of Noun and Verb Processing

Abstract and Aims

- ◆ Critical sections; may be the only part of your application reviewers will read or have read to them!
- ◆ Write them first and revise them last

Come to April 2 workshop ! All Specific Aims, All the Time

Common pitfalls

- ◆ Studies lack cohesiveness
- ◆ Sequence of experiments is not logical
- ◆ Study results will lead to a dead end
- ◆ Contingency plans either not stated, or ill-conceived and not feasible

Common pitfalls of **junior PIs**

- ◆ Overambitious, Overambitious, Overambitious
- ◆ Insufficient experimental detail
- ◆ Rationale for choice of methods is not explained
- ◆ Lack of publication history in the area (can't do “trust me”)

Finally.....

You won't get a grant if...

You *Don't* Apply!

And, you won't get a grant
if...

You Don't *Re-Apply!*

Persistence pays off

FY 2008 R01 EQUIVALENT GRANTS**

TYPE	Success Rate
New	8.4%
New with <i>Resubmissions</i>	39.2%
Continuations	23.7%
Continuations <i>with Resub</i>	51.3%
Supplements	36.8%

**R01 Equivalent Grants

R01, R29 and R37

NIH RESEARCH APP SUCCESS RATES * BY TYPE OF GRANT, 2008

- **NEW** 18.7%
- **COMPETING CONTINUATION**
37.5%
- **SUPPLEMENTS** 40.3%
- **OVERALL** 21.8%

* Awarded/Submitted x 100 Note this number includes all resubmissions