

**NATIONAL DEAFNESS AND OTHER COMMUNICATION DISORDERS  
ADVISORY COUNCIL**

**September 7, 2012**

**National Institutes of Health  
Bethesda, MD**

**MINUTES**

The National Deafness and Other Communication Disorders Advisory Council convened on September 7, 2012 in Building 31, Conference Room 6, National Institutes of Health (NIH), Bethesda, MD. Dr. James F. Battey, Jr., Director, National Institute on Deafness and Other Communication Disorders (NIDCD), served as Chairperson. In accordance with Public Law 92-463, the meeting was:

Closed: September 7, 2012: 8:30 a.m. to 10:30 a.m. for review of individual grant applications; and  
Open: September 7, 2012: 10:45 a.m. to 1:50 p.m., for the review and discussion of program development needs and policy.

Council members in Attendance<sup>1</sup>:

Dr. Lauren Bakaletz	Dr. Paul Manis
Dr. Gerald Berke	Dr. Charlotte Mistretta
Dr. William Brownell	Dr. John Niparko
Mr. Richard Ellenson	Dr. Joseph Perzell
Dr. Karen Friderici	Dr. James Schwob
Ms. Joan Kaye	Dr. Robert Shannon
Ms. Tisha Kehn	Dr. Bevan Yueh

Council members absent:

Ms. Brenda Battat	Dr. Tommie Robinson
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Ex-Officio Members Participating:

Dr. Rickie Davis	Dr. Kyle Dennis for Dr. Lucille Beck
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Ex-Officio Members Not Participating:

Dr. Michael E. Hoffer

The complete Council roster is found in Appendix 1.

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<sup>1</sup>For the record, it is noted that members absent themselves from the meeting when the Council is discussing applications (a) from their respective institutions or (b) in which a real or apparent conflict of interest might occur. This procedure applies only to individual discussion of an application and not to "en bloc" actions.

NIDCD employees present during portions of the meeting:

Dr. Kathy Bainbridge	Dr. Chuan-Ming Li
Ms. Sheryl Brugh	Dr. Christine Livingston
Mr. Jeremy Burch	Dr. Castilla McNamara
Mr. Chris Carlsen	Dr. Roger Miller
Ms. May Chiu	Mr. Robert Miranda-Acevedo
Dr. Laura Cole	Mr. Christopher Myers
Dr. Judith Cooper	Mr. Edward Myrbeck
Dr. Janet Cyr	Mr. Eric Nunn
Ms. Sherry Dabney	Dr. Christopher Platt
Ms. Susan Dambrauskas	Dr. Kausik Ray
Ms. Lesley DeRenzo	Mr. Chris Rosado
Mr. Hoai Doan	Dr. Lana Shekim
Dr. Amy Donahue	Dr. Daniel Sklare
Dr. Nancy Freeman	Ms. Nanette Stephenson
Ms. Maria Garcia	Dr. Melissa Stick
Mr. Howard Hoffman	Dr. Susan Sullivan
Ms. Debbie Holmes	Dr. Bracie Watson
Dr. Gordon Hughes	Ms. Ginger Webb
Mr. Vivek Kamath	Mr. Timothy Wheelles
Dr. Andrea Kelley	Mr. Baldwin Wong
Dr. Lisa Kennedy	Mr. Chad Wysong
Ms. Robin Latham	Dr. Shiguang Yang

Other federal employees present during portions of the meeting:

Dr. Cate Bennett, CSR  
Dr. John Bishop, CSR  
Ms. Rhonda Edwards, OHR  
Dr. Rene Etcheberrigaray, CSR  
Dr. Paek Lee, CSR  
Dr. Lynn Luethke, CSR  
Dr. Christine Melchior, CSR  
Ms. Florence Michel, OHR  
Dr. Weijia Ni, CSR  
Ms. Tonia Purkowski, OHR  
Ms. Selma Roberts, OHR  
Dr. Biao Tian, CSR  
Ms. Esther Weiss, OHR

Members of the public present during open portions of the meeting:

Mr. Andy Bopp, Hearing Industries Association

## CLOSED SESSION

### I. **Call to Order and Opening Remarks ..... Dr. James F. Battey, Jr.**

The meeting was called to order by Dr. Battey, Director, NIDCD, who expressed appreciation to the entire Council for their service and advice. Ms. Kaye and Dr. Perkell were welcomed to the group as new council members with the promise of a more formal introduction in the Open Session.

### II. **Council Procedures..... Dr. Craig A. Jordan**

#### Procedural Matters

Dr. Jordan discussed important procedural matters, including requirements imposed by the Government in the Sunshine Act and the Federal Advisory Committee Act. The necessity of members to avoid conflict of appearance thereof was stressed, as was the need to maintain confidentiality concerning the proceedings and materials related to the closed portion of the meeting. Dr. Jordan announced that the Council meeting would be closed for consideration of grant applications during the morning session, but would be open to the public at approximately 10:30 a.m.

### III. **Council Consideration of Pending Applications**

#### **A. Research Project Grant Awards**

1. Consideration of Applications: On the Council's agenda was a total of 97 investigator-initiated research grant applications; 88 applications had primary assignment to NIDCD, in the amount of \$27.5 million first-year direct costs. It is anticipated that, of the applications competing at this Council, NIDCD will be able to award grants to R01 applications scoring up through the 15<sup>th</sup> percentile.

#### **B. Special Programs Actions**

1. NIH Mentored Research Scientist Development Award (K01): The Council recommended support of one application.
2. NIH Mid-Career Investigator Award in Patient-Oriented Research (K24): The Council recommended support of one application.
3. NIH Pathway to Independence (PI) Award (K99): The Council recommended support of two applications.
4. NIH Small Grants (R03): The Council recommended support of eight applications.
5. NIH Support for Conferences and Scientific Meetings (R13): The Council recommended support of three applications.
6. NIH Academic Research Enhancement Awards (AREA) (R15): The Council recommended support of one application.
7. NIH Exploratory/Development Research Grant Award (R21): The Council recommended support of six applications.
8. NIH Small Business Innovation Research Awards (SBIR): The Council recommended support for four Phase I (R43) applications.

9. NIH Small Business Innovation Research Awards (SBIR): The Council recommended support for one Phase II (R44) application.
10. RFA-DC-12-004 Improving Access to Hearing Healthcare (SBIR) [R43/R44]: The Council recommended support for one Phase I (R43) application and one Phase II (R44) application.
11. PAR-11-036 Limited Competition: Fogarty International Research Collaboration – Behavioral and Social Sciences (FIRCA-BSS) Research Award (R03): The Council recommended support of one dual application.
12. PAR-11-037 Limited Competition: Fogarty International Research Collaboration – Basic Biomedical (FIRCA-BB) Research Award (R03): The Council recommended support of two dual applications.

**IV. Report of the Board of Scientific Counselors ..... Dr. Andrew Griffith**

Next, Dr. Battey welcomed Dr. Andrew Griffith, Director of NIDCD’s Division of Intramural Research. As stipulated by law, each institute must provide annually to its National Advisory Council an overview of the Intramural Research Program. The overview includes reports of the Board of Scientific Counselors (BSC), and the responses of the Scientific Director. This presentation is informational; Council members are not asked to recommend approval or disapproval of the reports or to modify them in any way. However, the Council may make recommendations to the Director, NIDCD regarding such research on the basis of the materials provided.

Dr. Griffith and Dr. Battey presented Reports of the BSC regarding the review of several intramural laboratories. They then presented their responses to the reports and responded to questions from Council.

*[Executive Secretary Note: During the BSC presentation, attendance was restricted to the Council members, the Executive Secretary and a few senior NIDCD administrators.]*

**OPEN SESSION**

**V. Opening Remarks..... Dr. Battey**

Dr. Battey welcomed additional staff and visitors to the open session of the meeting.

Recognition of New Members

Dr. Battey welcomed the following new members to the Advisory Council:

- **Ms. Joan Kaye** is the Executive Director at Sophie’s Soundcheck which was founded a little over 3 years ago by her daughter Sophie Kaye to create an awareness of the causes and prevention of Noise Induced Hearing Loss. She received a BA in Political Science and Economics from Bryn Mawr. Ms. Kaye served previously in the banking industry most recently for over 17 years as Vice President at Citibank/CitiCorp/CitiGroup as Chief of Staff for a variety of Department and Division Heads in Operations, Corporate Banking, Foreign Exchange, Wealth Management and Real Estate Investment Banking. With this experience she is well prepared to guide the future of Sophie’s Soundcheck which is to educate teens and start changing individual attitudes and behaviors to better protect their hearing. Workshops, school assembly programs and fundraiser events have been developed and distributed nationally. Ms. Kaye has also been involved with the Working Group on Girls

which is a coalition of over 80 national and international non-governmental organizations with representation at the United Nations dedicated to promoting human rights and advancing the inclusion and status of the girl child in all areas and stages of her life.

- **Dr. Joseph Perkell** has been a principal investigator in the Research Laboratory of Electronics (RLE) at the Massachusetts Institute of Technology (MIT). He received his undergraduate degree in Mechanical Engineering from MIT, a D.M.D. from the Harvard School of Dental Medicine, and a Ph.D. in Speech Communication from MIT. He just retired from a long and distinguished career at the Research Laboratory of Electronics, rising through the ranks to become a Senior Research Scientist. He also carried that same rank in the MIT Department of Brain and Cognitive Sciences. He is continuing in RLE as a research affiliate and has an ongoing affiliation with Boston University, where he currently holds the position of Senior Research Scientist in the Department of Speech, Language and Hearing Sciences. Dr. Perkell and his colleagues have conducted experiments to explore the control and coordination of speech articulatory movements. In one NIH-sponsored project, Constraints and Strategies in Speech Production, his group developed and used a system for electromagnetic midsagittal articulometry to characterize motions of the speech articulators in a variety of experimental conditions. Another NIH-sponsored project, Effects of Hearing Status on Adult Speech Production, was directed at understanding the influence of auditory feedback on the speech production of cochlear implant users and normal-hearing controls.

Consideration of Minutes of the Meeting of May 31, 2012

Dr. Battey called the members' attention to the minutes of the May 31, 2012 meeting of the Advisory Council. The minutes were approved as written.

Confirmation of Dates for Future Council Meetings

Dates for the Council meetings through September 2014 have been established. A list of these meetings was distributed to the Council members and posted on the web site prior to this meeting. The next meeting of the Council is scheduled for Friday, January 25, 2013, in Building 31, Conference Room 6 on the NIH campus, Bethesda, Maryland.

**VI. Report of the Division of Intramural Research..... Dr. Griffith**

NIH policy requires that the National Advisory Council for each institute review the activities of their respective intramural program once a year. Dr. Andrew Griffith, Scientific Director of NIDCD's Division of Intramural Research (DIR) presented the 2012 report.

Personnel

There are currently 10 tenured investigators and two tenure-track investigators.

Board of Scientific Counselors

Dr. Griffith updated the Council on the membership of the Board of Scientific Counselors (BSC). Membership changed in July 2012. A retiring member this year was Dr. Wayne Frankel of Jackson Laboratory whose vacancy was filled by Dr. Jay Rubinstein of the University of Washington. Dr. Frankel had served as Chair of the BSC. Dr. Marci Lesperance of the University of Michigan was appointed as Chair.

Porter Neuroscience Research Center

Dr. Griffith concluded his report with the exciting news that construction on Phase II for the Porter Neuroscience Research Center is moving along. This ARRA-funded project will bring under one roof the intramural scientists who are currently in three different locations in the Bethesda/Rockville area. Planned completion is in 2012/2013 with a move anticipated in 2013.

**VII. Report of the Director, NIDCD ..... Dr. Battey**

Budget Update

Dr. Battey began his presentation by displaying the President’s NIDCD Budget Request for FY 2013. He also pointed out that there has been no Congressional action yet on the FY 2013 budget for NIH. As a consequence, there is a great deal of uncertainty about what the eventual budget level will be and it is very likely that NIH will begin FY 2013 without an appropriation, operating under a Continuing Resolution. In recognition of this high level of uncertainty, NIDCD has adopted a conservative fiscal plan for FY 2013. Once other components of the NIDCD budget are considered there would be \$299.4 million available for research project grants. From this total, \$10.7 million is reserved for Small Business Research grants, \$900 thousand for administrative supplements, \$226.8 million for commitments to noncompeting grants, \$650 thousand for Neuroscience Blue Print commitments, and \$12.7 million for program requirements. An additional estimated \$1.4 million is available from end of year FY 2012 funds. Twenty percent of the remaining \$49 million is designated for High Program Priority (HPP). Consequently, there is \$39.2 million available for the initial pay line across the year’s three Council meetings. This should allow funding of applications up through the 15<sup>th</sup> percentile. The \$9.8 million for HPP applications will be available to support additional applications.

[A copy of the slides Dr. Battey used for this budget presentation is included in Appendix 2.]

This is Jeopardy!<sup>®</sup>

On Monday, July 30, NIDCD’s “It’s a Noisy Planet” campaign was featured as a question category on a special Kids’ Week episode of the popular game show, Jeopardy! The show has more than 5 million viewers nationwide. Like many programs in this age of social media, TV viewers are just part of the audience reached. The Jeopardy Facebook page, which has more than 600,000 followers, included a post about Noisy Planet on the day of the program, which garnered 169 “likes”, 37 comments, and 31 shares. NIDCD also posted about the show on its Noisy Planet Facebook page and tweeted about it on the NIDCD Twitter account. Several NIH Twitter accounts re-tweeted as did our friends at the American Tinnitus Association, Hearing Health Foundation, and others, reaching possibly more than 316,000 Twitter users (not including secondary re-tweets) and increasing the number of NIDCD followers by 10 percent. In addition, the Noisy Planet website experienced almost 400% increase in traffic (from approximately 150 visits per day to 566 visits) the day the show aired.

The Council enjoyed this fun clip of the contestants answering the Noisy Planet questions – or, rather, identifying the questions to the Noisy Planet answers. We’ll be posting this clip on the NIDCD website and promoting it through our Facebook and Twitter accounts through the end of January.

**VIII. Report of the Director, Division of Extramural Activities ..... Dr. Jordan**

Dr. Jordan began with a pause to remember two colleagues, Dr. Saumil Merchant and Dr. Barry Davis. Several Council members offered to share their thoughts. Dr. John Niparko shared a thoughtful remembrance of Dr. Merchant. Drs. Schwob and Mistretta shared kind remembrances

about Dr. Davis. A moment of silence was observed by attendees in recognition of their contributions to NIDCD and the communication disorders community.

Dr. Jordan continued by introducing a new staff member, Ms. Susan Dambrauskas, and asking Council to welcome her as Chief of the NIDCD's Health Communication and Public Liaison Office. He pointed out the expertise that Ms. Dambrauskas brings to the NIDCD and some of her accomplishments in prior positions at NIH.

Dr. Jordan then shared with Council the recent activities of the NIH Advisory Committee to the Director (ACD) which met in June 2012. The ACD had formed a number of workgroups to advise the NIH on a variety of current challenges. The reports are available at the ACD website (<http://acd.od.nih.gov/meetings.htm>) and cover:

- Sustainability in the U.S. biomedical research workforce.
- Diversity in the U.S. biomedical research workforce.
- Advice on the management, integration, and analysis of large biomedical research datasets.

Dr. Jordan presented the broad range of recommendations contained in just one of the reports, the Biomedical Workforce Working Group. The report included recommendations targeting graduate students, postdoctoral researchers, information collection/analysis/dissemination, and a few broader recommendations. He closed by sketching out NIH's pre-implementation approach during the summer months building to a discussion at the IC Directors Leadership Forum during the fall.

## **IX. Scientific Presentation..... Dr. Lauren Bakaletz**

Dr. Battey introduced Dr. Lauren Bakaletz, Professor of the Department of Pediatrics and Otolaryngology in the College of Medicine at the Ohio State University. Dr. Bakaletz accepted our invitation to discuss her research in a presentation entitled "*Taking aim at biofilms to develop vaccines to prevent or treat chronic middle ear infections (otitis media).*"

Otitis media (OM), or middle ear infection, is a highly prevalent pediatric disease worldwide. Annually, there are 709 million cases of acute OM and 65-330 million cases of chronic secretory OM, resulting in a tremendous global socioeconomic burden and reduced quality of life. The cost of managing OM, both medically and surgically is estimated to be between \$5-6 billion annually in the United States alone. The most cost-effective way to manage OM is via the development of an effective and broadly protective vaccine, however there are multiple challenges to achieving this goal given that OM is a multifactorial disease of a polymicrobial etiology, and complicated by the presence of a robust and highly recalcitrant bacterial biofilm component in the disease course.

To attempt to overcome some of these challenges, and develop a vaccine against nontypeable *Haemophilus influenzae* (NTHI) – the most predominant pathogen of chronic and recurrent OM, we've followed a vaccine candidate development strategy that specifically targets the proteome of NTHI when it resides within a biofilm community. Two bacterial proteins, each of which is abundantly expressed within biofilms formed by NTHI when it infects the middle ear, have been the primary targets of our efforts to date to design and test vaccine candidates. To determine the efficacy of these candidates pre-clinically, we rely upon a chinchilla model that reproduces the polymicrobial etiology of OM. Using this viral-bacterial superinfection model, we have generated data which strongly suggests that these vaccine candidates will not only be effective when used in a traditional preventive immunization strategy, but also when used as therapeutic vaccine candidates to resolve existing, perhaps already chronic, disease. Efforts to make these vaccines more accessible to the developing world by devising methods for non-invasive delivery will also be discussed.

**X. Report of the Director, Division of Scientific Programs ..... Dr. Judith Cooper**

Dr. Cooper introduced Dr. Lana Shekim, NIDCD program director of the voice and speech program who recently spent seven weeks in Amman, Jordan (April-May 2012) as an Embassy Science Fellow. Dr. Shekim explained that the Embassy Science Fellowship Program (ESFP) is a US Department of State program that places US Government (USG) scientists overseas to provide expertise, advice, and assistance with issues relating to the environment, science, technology and health (ESTH). Begun in 2001, the program provides a valuable mechanism through which experts from the USG technical agencies can assist posts on country-specific issues. The program also helps the agencies to advance national research and development priorities through international collaborations and to explore the degree to which new science and technology might provide a venue for relationships to further benefit the agencies missions.

Dr. Shekim went to Jordan because the US Embassy in Amman is the ESTH hub office for the Middle East and North Africa (MENA) region and because one unifying language (Arabic) is spoken throughout most of the countries of this wide and diverse geographic region. Dr. Shekim met with a variety of stake holders with an eye for opportunities in scientific engagement at the nexus of health and education and focused on communication disorders. The lens was widened to include not only hearing function which is essential to effective communication but also on the necessary aspects of human verbal expression, i.e. voice, speech and language functions. The World Report on Disabilities (WRD) released by the World Health Organization (WHO) in the summer of 2011 estimates that roughly 1 billion people of the world, or close to 15% live with some form of disability. Hearing loss alone affects 278 million people worldwide. With the ongoing shift in the global burden of illness from infectious diseases to chronic diseases (increasingly known as non-communicable diseases or NCDs), there's an urgent need to attend to the prevention of disabilities and to education and rehabilitation of people with communication disorders throughout the lifespan in low-middle income countries. The WRD offers a set of nine recommendations for countries to consider and implement.

**XI. Adjournment**

The meeting was adjourned at 1:50 p.m. on September 7, 2012.

**XII. Certification of Minutes**

We certify that, to the best of our knowledge, the foregoing minutes and attachments are accurate and correct.

9/26/12

Craig A. Jordan

Craig A. Jordan, Ph.D.  
Executive Secretary  
National Deafness and Other Communication  
Disorders Advisory Council

September 26, 2012

Jim Battey

James F. Battey, Jr., M.D., Ph.D.  
Chairman  
National Deafness and Other Communication  
Disorders Advisory Council

Director  
National Institute on Deafness and  
Other Communication Disorders

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Ginger Webb  
Council Assistant  
NDCD Advisory Council

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<sup>2</sup> These minutes will be approved formally by the Council at the next meeting on January 25, 2013, and corrections or notations will be stated in the minutes of that meeting.

## APPENDICES

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Appendix 1

**Roster**

**National Deafness and Other Communication Disorders Advisory Council**

Chairperson

James F. Battey, Jr. M.D., Ph.D., Director  
National Institute on Deafness and Other Communication Disorders  
Bethesda, MD

BAKALETZ, Lauren O., Ph.D. Professor Departments of Pediatrics and Otolaryngology College of Medicine Ohio State University Columbus, OH 43205	2014	KEHN, Tisha A. Executive Director Association for Chemoreception Sciences Minneapolis, MN 55406	2015
BATTAT, Brenda, M.S., MCSP Executive Director Hearing Loss Association of America (HLAA) Bethesda, MD 20814	2013	MANIS, Paul B., Ph.D. Thomas J. Dark Distinguished Research Professor Department of Otolaryngology/Head and Neck Surgery University of North Carolina Chapel Hill Chapel Hill, NC 27599	2015
BERKE, Gerald S., M.D. Chair, Department of Head and Neck Surgery Center for Health Sciences School of Medicine University of California at Los Angeles Los Angeles, CA 90095	2014	MISTRETTA, Charlotte M., Ph.D. William R. Mann Professor Department of Biologic and Materials Sciences Associate Dean for Research and Ph.D. Training School of Dentistry University of Michigan Ann Arbor, MI 48109	2015
BROWNELL, William, Ph.D. Jake and Nina Kamin Chair Bobby R. Alford Department of Otolaryngology – Head & Neck Surgery Baylor College of Medicine Houston, TX 77030	2013	NIPARKO, John K., M.D. George T. Nager Professor Department of Otolaryngology Head and Neck Surgery School of Medicine Johns Hopkins University Baltimore, MD 21287	2013
ELLENSON, Richard, M.B.A. President Ellenson Interaction New York, NY 10128	2013	PERKELL, Joseph S., Ph.D., D.M.D. Senior Research Scientist Research Laboratory of Electronics Department of Brain and Cognitive Sciences Massachusetts Institute of Technology Cambridge, MA 02139	2016
FRIDERICI, Karen H., Ph.D. Professor Department of Microbiology and Molecular Genetics Michigan State University East Lansing, MI 48824	2013		
KAYE, Joan Executive Director Sophie's Soundcheck New York, NY 10128	2016		

ROBINSON, Jr., Tommie L., Ph.D. 2016  
Director, Scottish Rite Center for Childhood  
Language Disorders  
Children's Hearing and Speech Center  
Children's National Medical Center  
Washington, DC 20009

SHANNON, Robert V., Ph.D. 2015  
Director, Division of Communication  
and Auditory Neuroscience  
Head, Auditory Implant Research  
Laboratory  
House Research Institute  
Los Angeles, CA 90057

SCHWOB, James E., Ph.D., M.D. 2015  
Bates Professor and Chair of Anatomy  
and Cellular Biology  
Tufts University School of Medicine  
Boston, MA 02111

YUEH, Bevan, M.D., M.P.H. 2014  
Professor and Chair  
Department of Otolaryngology  
Head and Neck Surgery  
University of Minnesota  
Minneapolis, MN 55455

### **Ex Officio**

BECK, Lucille B., Ph.D.  
Director  
Audiology and Speech Pathology Service  
Department of Veterans Affairs  
Washington, DC 20422

COLLINS, Francis S., Ph.D., M.D.  
Director  
National Institutes of Health  
Bethesda, MD 20892

DAVIS, Rickie, Ph.D.  
Team Leader  
Hearing Loss Prevention Team  
Division of Applied Research and Technology  
National Institute for Occupational Safety  
And Health (NIOSH)  
Cincinnati, OH 45226

HOFFER, Michael E., M.D.  
Co-Director  
Department of Defense Spatial Orientation  
Center  
Department of Otolaryngology  
Naval Medical Center  
San Diego, CA 92134

SEBELIUS, Kathleen  
Secretary  
Department of Health and Human Services  
Washington, DC 20201

### **Executive Secretary**

JORDAN, Craig A., Ph.D.  
Director, Division of Extramural Activities  
National Institute on Deafness and Other  
Communication Disorders  
Bethesda, MD 20892

# **NIDCD Director's Budget**

James F. Battey, Jr., M.D., Ph.D.  
NIDCD Advisory Council Meeting  
September 7, 2012

**National Institute on Deafness and Other Communication Disorders**

**September 2012 Council  
Budget Mechanism  
(Dollars in thousands)**

<i>Budget Mechanism</i>	FY 2012 Appropriation		FY 2013 President's Budget	
	<i>Number</i>	<i>Amount</i>	<i>Number</i>	<i>Amount</i>
Research Projects				
Noncompeting	638	\$225,489	623	\$221,964
Admin. Supplements	33	1,354	23	945
Competing	184	61,068	191	62,719
Subtotal	822	287,911	814	285,628
SBIR/STTR	25	10,500	26	10,800
Subtotal, RPG's	847	298,411	840	296,428
Research Centers	24	14,610	24	14,464
Other Research	60	9,448	60	9,354
Total Research Grants	931	322,469	924	320,246
Individual Training	130	5,163	127	5,111
Institutional Training	205	9,160	200	9,068
R & D Contracts	36	21,387	35	22,477
Intramural Research		38,000		40,620
Research Mgmt. & Support		19,975		19,775
TOTAL		\$416,154		\$417,297

**National Institute on Deafness and Other Communication Disorders**

**September 2012 Council  
Competing Research Project Grants  
(Dollars in thousands)**

**September Council Funds for FY 2013 Competing R01's**  
*Based on FY 2013 Guesstimate of \$415,778 thousand*  
(\$ in thousands)

Estimated Total RPG budget	\$299,403	
Less estimated SBIR/STTR budget	-10,700	
Less estimated Administrative Supplements budget	-900	
Less estimated Noncompeting budget	-226,800	
Less FY13 "Carryover" Commitments from prior Council meetings	-650	
Less FY13 Program Requirements	-12,750	
Plus FY12 regular appropriation for R01's	1,400	
	<hr/>	
<i>Total</i>	\$49,003	
	<u>20% HPP</u>	<u>80% Regular</u>
For FY 2013	\$9,801	\$39,202
Per Council Round	\$3,267	\$13,067