The National Deafness and Other Communication Disorders Advisory Council (NDCDAC) convened on January 28 & January 29, 2021 via videoconference at the National Institutes of Health (NIH) in Bethesda, MD. Dr. Debara L. Tucci, Director, National Institute on Deafness and Other Communication Disorders (NIDCD), served as Chairperson. In accordance with Public Law 92-463, the meeting was:

Closed: January 28, 2021: 10:00 a.m. to 12:15 p.m. for review of individual grant applications.

Open: January 28, 2021: 1:00 p.m. to 3:15 p.m. and January 29, 2021 from 10:30 a.m. to 12:45 p.m., for the review and discussion of program development needs and policy.

Council members in attendance:

- Dr. John Carey
- Dr. Nirupa Chaudhari
- Dr. Ruth Anne Eatock
- Mr. Richard Einhorn
- Dr. Carol Espy-Wilson
- Dr. Lisa Goffman
- Dr. Sandra Gordon-Salant
- Dr. Argye Hillis
- Dr. Robert Hillman
- Ms. Barbara Kelley
- Ms. Nanci Linke-Ellis
- Dr. Cynthia Morton
- Ms. Lynne Murphy-Breen
- Dr. Dan Sanes
- Dr. Ben Strowbridge
- Dr. Charlotte Yeh

Council Members Absent:
None

Ad-Hoc Council Members in attendance:

- Dr. Laurel Carney
- Dr. Stefan Heller

Ex-Officio Council Members in attendance:
- Ms. Christa Themann
- Dr. Lakeisha Henry
- Dr. Judy Schafer for Dr. Lucille Beck

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1 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
- Mr. James Burton
- Dr. Laura Cole
- Dr. Judith Cooper
- Dr. Janet Cyr
- Mr. Hoai Doan
- Dr. Nancy Freeman
- Ms. Maria Garcia
- Mr. Howard Hoffman
- Ms. Nichelle Johnson
- Dr. Craig Jordan
- Dr. Kelly King
- Ms. Connie Latzko
- Dr. Eliane Lazar-Wesley
- Ms. Mimi Lee
- Dr. Chuan-Ming Li
- Dr. Trinh Ly
- Dr. Castilla McNamara
- Dr. Roger Miller
- Dr. Elyssa Monzack
- Mr. Christopher Myers
- Mr. Eddie Myrbeck
- Mr. Eric Nunn
- Dr. Amy Poremba
- Dr. Mary Purucker
- Dr. Kausik Ray
- Dr. Alberto Rivera-Rentas
- Ms. Cathy Rowe
- Dr. Elka Scordalakes
- Dr. Lana Shekim
- Dr. Kathy Shim
- Dr. Sheo Singh
- Dr. Melissa Stick
- Dr. Susan Sullivan
- Dr. Debara Tucci
- Dr. Bracie Watson
- Mr. Mitchell Wainberg
- Ms. Ginger Webb
- Mr. Tim Wheeles
- Mr. Eric Williams
- Dr. Shiguang Yang

Others present during portions of the meeting:

- Dr. Brian Scott, CSR
- Dr. John Bishop, CSR
- Dr. Andrea Kelley, CSR
- Dr. Alexei Kondratyev, CSR
- Dr. Maribeth Champoux, CSR
- Dr. Eliseo Perez-Stable, NIMHD
- Ms. Felice Harper, CIT
- Mr. Ali Shaker, CIT
- Mr. Jonathan Bennet, ORS
- Dr. Fan-Gang Zeng, University of California, Irvine
- Dr. Charles Della Santina, Johns Hopkins
- Dr. Razi Haque, Lawrence Livermore National Laboratory

Members of the public that viewed to proceedings via NIH Videocast.

The complete Council roster is found in Appendix 1.

Both days Open Sessions were available live by NIH VideoCast and will remain available in the archive for one year.
CLOSED SESSION January 28, 2021

Call to Order and Opening Remarks ......................................................... Dr. Debara L. Tucci

The meeting was called to order by Dr. Tucci, Director, NIDCD, who expressed appreciation to the entire Council for their service and advice.

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 any conflict of interest and even any appearance of a conflict 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 and would be open to the public at approximately 1:00 p.m. via Videocast.

Council Consideration of Pending Applications ......................... Dr. Judith Cooper and Staff

Research Project Grant Awards

Consideration of Applications: On the Council’s agenda was a total of 114 investigator-initiated R01 grant applications; 98 applications had primary assignment to NIDCD, in the amount of $37.4 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 14th percentile.

Special Program Actions

1. Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (T32): The Council recommended support of six applications.
2. NIH Mentored Research Scientist Development Award – Research and Training (K01): The Council recommended support of one application.
3. NIH Mentored Clinical Scientist Research Career Development Award (K08): The Council recommended support of one application.
4. NIDCD Research Career Enhancement Award for Established Investigators (K18): The Council recommended support of one application.
5. NIH Mid-Career Investigator Award in Patient-Oriented Research(K24): The Council recommended support of two applications.
6. NIH Pathway to Independence Award (K99/R00): The Council recommended support of two applications.
7. Maximizing Opportunities for Scientific and Academic Independent Career Awards (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99): The Council recommended support of one application.
8. NIH Support for Conferences and Scientific Meetings (R13): The Council recommended support of two applications.
9. NIH Research Enhancement Award (R15): The Council recommended support of one application.

10. NIH Exploratory/Development Research Grant Award (R21): The Council recommended support of six applications.

11. NIDCD Early Career Research (ECR) Award (R21): The Council recommended support of nine applications.

12. NIH Small Business Innovation Research Awards (SBIR): The Council recommended support of three Phase II (R44) applications.

13. NIDCD Cooperative Agreement for Clinical Trials in Communication Disorders (U01): The Council recommended support for two applications.


OPEN SESSION – January 28, 2021

Opening Remarks ................................................................. Dr. Debara L. Tucci

Dr. Debara L. Tucci welcomed additional staff and visitors to the open session of the meeting which was available to the public from the NIH Videocast website. (https://videocast.nih.gov/watch=41264)

Consideration of Minutes of the Meeting of September 2020

Dr. Tucci called the members’ attention to the minutes of the September 10 and 11, 2020 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 2022 have been established. A list of these meetings was distributed to the Council members and posted on the website prior to this meeting. The next meeting of the Council is scheduled for Thursday and Friday, May 20 and 21, 2021.

[Executive Secretary Note: The May 2021 council meeting will be virtual, and we plan to start the meeting at 10:00 a.m. on each day.]

Dr. Tucci introduced NIDCD’s new Chief Information Officer, Ms. Connie Latzko, who comes to NIDCD with very good experience most recently at the National Institute of Nursing Research. Dr. Tucci then updated the council on the search for a new Scientific Director (SD) since Dr. Andy Griffith departed on June 1, 2020. The selection committee has completed the seminar/interview process and provided NIDCD with a short list of the highest quality candidates. An offer is in the process of being extended.

Since the September 2020 meeting when NIDCD asked the Council for ideas on Diversity and Inclusiveness, NIDCD put together a working group consisting of current and former members of the Advisory Council and Co-Chaired by Drs. Lisa Goffman and Fan-Gang Zeng. Dr. Tucci
introduced the other members of the committee: Drs. Nirupa Chaudhari, Carol Espy-Wilson, Cynthia Morton, Sandy Gordon-Salant, and Steven Sims.

Dr. Tucci provided an update on the progress of the NIDCD Strategic Plan for 2022-2027. First sharing a timeline for update and also by introducing two Council members who agreed to serve as Liaisons to the Strategic Plan committee: Dr. Nirupa Chaudhari and Dr. Dan Sanes.

**NIDCD Budget Report................................. Mr. Eric Williams**

NIDCD’s Budget Officer, Mr. Eric Williams, presented information on the NIDCD’s 2020 Budget Operating Plan for the fiscal year 2020. The FY2020 budget benefited from a $16 M increase. That increase was largely applied to the out-year commitments of the grants awarded in prior years. The pie chart shared indicated the expenditure of the budget by scientific mission area with the comment that the percentages have been stable since FY2019 and that the differences are largely driven by the number and scientific merit of submitted applications. Mr. Williams shared the good news that the NIDCD’s FY2021 budget has been enacted by Congress, with NIDCD receiving an approximate 1.5 % increase to $498.1M. Due to the recent nature of the appropriation, the finer details are embargoed at this time.

Next Mr. Williams shared a presentation titled, “R01/R21 Application and Spending Analysis Across Program Areas (FY15-FY20)”. The programs have had steady spending across the mission areas, noting that Voice, Speech and Language has seen an increase of 5 percentage points. Chemical Senses, and Hearing and Balance each decreasing by about 2 percentage points. This may be explained by looking at application counts and success rates. Hearing and Balance success rates are fairly steady over this six-year period while Chemical Senses, and Voice Speech and Language show more variability, likely due to smaller application numbers.

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

**Update: NIDCD Advisory Council – Working Group on Diversity and Inclusiveness Dr. Lisa Goffman Dr. Fan-Gang Zeng**

Dr. Lisa Goffman and Dr. Fan-Gang Zeng provided an update on the Diversity and Inclusion Working Group’s early efforts in response to the charge to provide advice on how the NIDCD might improve the diversity of our workforce and our science. This newly formed committee includes current and former Advisory Council members Nirupa Chaudhari, Carol Espy-Wilson, Cynthia Morton, Sandy Gordon-Salant and Steven Sims. The work group met virtually to develop initiatives in line with the charge from NIDCD. The general theme reported was to create a pipeline with opportunities and mentoring at every stage. They also cited vulnerabilities at many career development levels and seek to develop a career-span perspective. The initial recommendations were presented as four initiatives:

- Increase the diversity of individuals entering the research pipeline
- Mentoring across research career stages
- Funding Sources Allocated for Diversity
- Increasing Awareness and Accessibility

The next steps are to interact with NIDCD and community colleagues to refine and specify actions. The Working Group will come back and report progress at the next meeting of Advisory Council.
Addressing Racism through Research ......................................................... Dr. Eliseo Pérez-Stable

Dr. Tucci welcomed Dr. Eliseo Pérez-Stable, Director of the National Institute on Minority Health and Health Disparities (NIMHD) at the NIH. NIMHD seeks to advance the science of minority health and health disparities through research, training, research capacity development, public education and information dissemination.

Dr. Pérez-Stable presented an overview of his institute’s work defining populations with health disparities pointing out that social disadvantage results in part from being subject to discrimination or racism, and in being underserved in health care. Further he provided examples as to how race/ethnicity and socioeconomic status are fundamental in determining health outcomes. He also discussed an array of social determinants of health at the level of the individual, such as SES, religion, literacy, or disability. Another way to categorize social determinants of health is based on structural elements such as access to affordable housing, broadband internet, public transportation, schools, and public safety. Dr. Pérez-Stable presented the NIMHD Research Framework that factors in Domains of influence versus Levels of influence to look at health outcomes for individuals, to families, to populations. He noted that most of their research is focused on the levels of influence the individual has over their situation in life. He ended his talk by citing several published studies, recently funded research directions, and a discussion on how racial or ethnic disparities impact COVID-19 morbidities.

Adjournment

The first day of the meeting adjourned at 3:15 p.m. on Thursday, January 28, 2021.

OPEN SESSION – January 29, 2021

Opening Remarks ........................................................................................................Dr. Tucci

Dr. Tucci welcomed additional staff and visitors to the open session of the meeting which was available to the public from the NIH Videocast website. (https://videocast.nih.gov/watch=41345 )

Report of the Division of Scientific Programs ............................................. Dr. Cooper

Dr. Cooper introduced Dr. Mary Purucker our newest staff member as part of the NIDCD Clinical Trials team in the Division of Scientific Programs. Dr. Purucker has a great breadth of experience and clinical knowledge. She is a member of the Society for Pediatric Research and previously worked at the FDA before coming to NIH. Her first position at NIH was with the National Center for Advancing Translational Sciences (NCATS) where she led the Clinical and Translational Science Awards (CTSA) Program. With her significant experience in Clinical Trials, we were very fortunate to be able to recruit her to NIDCD

Next Dr. Cooper outlined NIDCD’s involvement with several COVID-19 related initiatives. One of the earliest was the Notice issued by NIDCD in April 2020. This initiative resulted in 18 supplemental awards last July to grantees across the spectrum of NIDCD mission areas (8 in Chemical Senses, 6 in Voice Speech Language, 3 in Hearing and 1 in Balance and Vestibular) at a cost of $3.2 million. In response to a trans-NIH solicitation, Digital Healthcare Interventions
to address the Secondary Health Effects related to Social, Behavioral and Economic Impact of COVID-19, two NIDCD grantees received supplemental funding for projects in the areas of child language and aphasia.

Dr. Cooper next provided an exciting update on Rapid Acceleration of Diagnostics (RADx-rad) (which includes a focused FOA on Chemosensory Testing). NIDCD’s Dr. Susan Sullivan partnered with a colleague at NIDCR to solicit rapid chemosensory tests for COVID that are self-administered. Such projects should help determine if smell loss can serve as an early indicator of COVID infection and predictor of disease progression. This effort was pursued on an aggressive timeline, competed for NIH, OD funds, was published as an RFA, and resulted in three awards funded by the Office of the Director, NIH with $3.4M. Another COVID project funded by the Office of the Director, NIH was a supplement to an NIDCD grantee entitled, “A Confectionary-Based Screening Tool for Assessing Chemosensory Loss in COVID 19 Patients”.

Finally, Dr. Cooper highlighted the NIDCD published solicitation, NIDCD is Interested in Supporting Research on the Impact of COVID-19 on Mission Specific Sensory and Communication Disorders. This Notice of Special Interest yielded several applications submitted to the October deadline that span the NIDCD mission areas. Those applications will come to the May meeting of Council for consideration.

BRAIN Initiative Update .................................................................................................................. Dr. Amy Poremba

The BRAIN Initiative® (BI) was established in 2013 by President Barack Obama with a proposal from his office of Science and Technology, essentially giving NIH a grand challenge to figure out. The impetus for this brain-research effort was a simple, staggering statistic: 1 in 4 families worldwide includes someone who suffers from a brain injury, disease, or disorder. This initiative hopes to accelerate development of innovative technology to discover new things and make discoveries utilizing interdisciplinary research while promoting team science among several different disciplines including those such as neuroscience, genetics, physics, engineering, informatics, nanoscience, chemistry, mathematics, etc. In the name of the initiative, BRAIN is actually an acronym for: Brain Research through Advancing Innovative Neurotechnologies. This serves as a good reminder that it is not just about neuroscience research in general, which many institutes participate in, but rather focused on finding and advancing tools and technologies to study the brain.

Over the past five years, the initiative has funded hundreds of research projects nationwide that have led to several breakthroughs, including the creation of systems for studying the circuits involved in generating behavior in animal models, the development of a computer program that can mimic natural speech from a person’s brain signals and the construction of a brain cell parts list.

Basically, the playbook on how research is usually done, conservatively, and narrowly, has been deemphasized and high risk, high reward research projects have been embraced for this initiative. To do this, special attention by program officers, scientific review officers, reviewers and councils has been paid to maintaining the maverick approach for this initiative. Overall, the BI is a large trans-NIH program that will end up providing over $5 Billion dollars in neuroscience funding by 2026. There are 10 institutes and 4 offices across NIH involved in this initiative and it is primarily directed by the neurology and mental health institutes.
Over 100 people at NIH work in several capacities to support the BI, many of them volunteering or on loan from their institutes. One of NIDCD’s long time extramural researchers, neuroscientist Dr. John Ngai from UC Berkeley was recruited early last year to head the BRAIN Initiative. Dr. Ngai studies the olfactory system and used his early training in molecular biology to unearth the genes involved in receiving and processing odor information. He received one of the first NIH BRAIN Initiative grants to help classify cells in the brain using single cell sequencing and his latest interest is in how the olfactory system repairs itself.

NIDCD receives money from congress to contribute to the BI and that equals about $4 million per year. Most of the funding for the BI from congress is appropriated to NINDS and NIMH to distribute. From $46 million the first year to $560 million in 2021, BRAIN funding has ramped up and will hopefully remain at this level or above through 2026 due to the base budget from congress and money from the 21st Century Cures Act. Through 2020 more than $1 billion has been spent with plans for more than $5 billion by 2026. There are currently 19 funding opportunity announcements with more being added throughout the fiscal year. The announcements are available through a searchable database at https://braininitiative.nih.gov/funding/funding-opportunities.

Report of the Division of Extramural Activities (DEA).........................................................Dr. Jordan

Dr. Jordan reviewed the Council Operating Procedures document with members. He highlighted the different areas of the document, including specific situations raised at council meetings and those actions that are routinely reported in the Interim Actions Report. No changes were recommended to the document this year. Members voted unanimously to endorse the Council Operating Procedures for another year.

Dr. Jordan then summarized the efforts of DEA staff during 2020. The Grants Management Branch (GMB) is staffed by grants management specialists who process the grant awards for NIDCD. He provided a graph detailing the numbers of Awards processed by GMB in 2020 included, new (255), competing (47), non-competing (777), and supplemental (78) awards. Those award processes are complicated in years when appropriations are delayed, and only partial awards are issued due to a Continuing Resolution. He mentioned some of the specific issues that must be addressed during award processing including Human Subject Concerns, Animal Concerns, or the involvement of foreign sites. GMB staff must resolve all issues before awards can be issued and that involves interactions with Program Staff, the PI and the Institution to negotiate resolutions. The involvement of foreign sites in an award requires communications with the Fogarty International Center (FIC).

The NIDCD’s Scientific Review Branch (SRB) is composed of Scientific Review Officers and some assistants. In 2020, SRB recruited 248 individual peer reviewers to fill the 392 distinct reviewer slots on 33 review panels they developed and managed. Those review panels evaluated 416 application. Scientific Review Officers spend significant effort to recruit reviewers with the appropriate expertise for the wide array of science in those applications and manage the meetings to accommodate the large variety of grant mechanisms reviewed. Applications reviewed by SRB include institutional training, individual training, career development, research centers, clinical trials, loan repayments, and other research.

The DEA, Office of the Director is the other component of the division where several other functions are managed. Those functions include managing the Advisory Council, all of NIDCD’s publications in the NIH Guide to Grants and Contracts, all Freedom of Information Act (FOIA) requests submitted to NIDCD, management of NIDCD’s four federal advisory committees,
management of NIDCD’s Scientific Review Evaluation Account to fund all peer review activities, and travel planning for all extramural staff of the institute. Dr. Jordan highlighted some of the efforts and accomplishments in these different categories with data from 2020.

His final slide listed all division members and their roles. He closed by thanking all DEA staff for their dedication and effective work on behalf of NIDCD.

Open Approaches for Neural Engineering: From .......................................... Dr. Roger Miller
Concept to Clinic  Dr. Razi Haque
Dr. Charles Della Santina

A mini symposium entitled Open Approaches for Neural Engineering: From Concept to Clinic occurred during the open session of the NIDCD Advisory Council meeting on Friday, January 29, 2021. Dr. Roger Miller, NIDCD Program Officer, presented an overview of the institute’s effort to support creation of open hardware and software resources to accelerate research on novel approaches to prosthetic stimulation of the inner ear. He was followed by Dr. Razi Haque, who leads the Implantable Microsystems Group at the Lawrence Livermore National Laboratory’s (LLNL) Center for Bioengineering. Dr. Haque presented an overview of his group’s technology development infrastructure and efforts that focus on microfabrication of flexible electrode arrays and optical waveguides for stimulation of the inner ear, auditory cortex, and other parts of the auditory and vestibular nervous system. He was followed by Dr. Charley C. Della Santina, from Johns Hopkins University. Dr. Della Santina presented results of a first-in-human trial of the Labyrinth Devices vestibular implant, which uses electrodes and stimulation technology similar to conventional cochlear implants to partially restore sensory function of the inner ear’s semicircular canals, then discussed results of research employing electrode arrays from LLNL to selectively stimulate the utricle and saccule.

Closing Comments

Dr. Morton initiated a discussion that led to the members of the NCD Advisory Council drafting a letter of appreciation to Dr. Francis Collins for his impactful leadership of the NIH and continued commitment to the advancement of human health in all mission areas. Following the meeting, the language was finalized, the letter signed by members, and then sent to Dr. Collins on February 9th by Dr. Tucci.

Adjournment

The meeting was adjourned at 12:45 p.m. on January 29, 2021.
Certification of Minutes

We certify that, to the best of our knowledge, the foregoing minutes and attachments are accurate and correct.²

3/29/2021

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

3/29/2021

/Debara L. Tucci/
Debara L. Tucci, M.D., M.S., M.B.A.
Acting Chair
National Deafness and Other Communication Disorders Advisory Council

Director
National Institute on Deafness and Other Communication Disorders

Ginger Webb
Council Assistant
NIDCD Advisory Council

² These minutes will be approved formally by the Council at the next meeting on May 20 & 21, 2021, and corrections or notations will be stated in the minutes of that meeting.
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<td>NDCD Advisory Council Roster</td>
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Roster
National Deafness and Other Communication Disorders Advisory Council
(Terms end on 5/31 of the designated year)

Chairperson
Debara L. Tucci M.D., Director
National Institute on Deafness and Other Communication Disorders
Bethesda, MD  20892

CAREY, John Patrick, M.D.   2021
Professor, Department of Otolaryngology
The Johns Hopkins University
School of Medicine
Baltimore, MD 21205

HILLIS, Argye Elizabeth, M.D. M.A.  2024
Professor of Neurology
Johns Hopkins School of Medicine
Baltimore, MD 21205

CHAUDHARI, Nirupa, Ph.D.    2024
Professor, Physiology & Biophysics
University of Miami School of Medicine
Miami, FL  33136

HILLMAN, Robert E., Ph.D.     2022
Co-Director and Research Director
Center for Laryngeal Surgery and
Voice Rehabilitation at Massachusetts
General Hospital and Professor of
Surgery: Harvard Medical School
Boston, MA  02114

EATOCK, Ruth Anne, Ph.D.   2023
Professor of Neurobiology
Dean of Faculty Affairs,
Biological Sciences Division
University of Chicago
Chicago, IL 60637

KELLEY, Barbara    2023
Executive Director
Hearing Loss Association of America
Bethesda, MD  20814

EINHORN, Richard    2022
Consultant
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New York, NY  10025

LINKE ELLIS, Nanci     2021
Specialty Marketing Consultant
for Hearing Loss and Vision Impaired
Audiences
Culver City, CA  90232

ESPY-WILSON, Carol, Ph.D.   2024
Professor, Electrical and Computer
Engineering
The Institute for Systems Research
University of Maryland College Park
College Park, MD  20742

MORTON, Cynthia C., Ph. D.    2022
William Lambert Richardson Professor
of Obstetrics, Gynecology and Reproductive
Biology and Professor of Pathology, Harvard
Medical School
Kenneth J. Ryan, M.D. Distinguished Chair in
Obstetrics and Gynecology and Director
of Cytogenetics, Brigham and Women’s Hospital
Chair in Auditory Genetics, University of
Manchester
Boston, MA  02115

GOFFMAN, Lisa, Ph.D.   2024
Professor and Nelle Johnston Chair
Callier Center for Communication
Disorders
School of Behavioral and
Brain Sciences
University of Texas at Dallas
Dallas, TX  75235

MURPHY-BREEN, Lynne     2024
Founder of ClearTitle
Senior Underwriting and Agency Counsel
Chicago Title Commonwealth Land
Title (Fidelity National Financial)
Boston, MA  02110

GORDON-SALANT, Sandra, Ph.D.  2021
Director, Doctoral Program in Clinical
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University of Maryland
College Park, MD  20742
SANES, Dan H., Ph. D.  2023
Professor
Center for Neural Science
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New York, NY  10003

STROWBRIDGE, Ben W., Ph.D.  2023
Professor of Neuroscience
Departments of Neuroscience and
Physiology/Biophysics
Case Western Reserve University
School of Medicine
Cleveland, OH  44106

Ad Hoc Members

HELLER, Stefan, Ph.D.
Edward C. and Amy H Sewall Professor,
School of Medicine
Otolaryngology – Head and Neck Surgery
Stanford University
Stanford, CA  94305

CARNEY, Laurel, Ph.D.
Marylou Ingram Professor,
Biomedical Engineering and
Professor, Departments
Biomedical Engineering, Neuroscience, Electrical &
Computer Engineering
University of Rochester
Rochester, NY  14642

Ex Officio

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

HENRY, LaKeisha R., M.D, FACS
Division Chief, Hearing Center for Excellence
Defense Health Agency
Assistant Professor of Surgery, USUHS
Joint Base San Antonio-Lackland,
Lackland, TX  78236

THEMANN, Christa, M.S. CCC-A
Research Audiologist
Hearing Loss Prevention Team
Division of Applied Research and Technology
National Institute for Occupational Safety
And Health (NIOSH)
Cincinnati, OH  45226

COCHRAN, Norris
Acting Secretary
Department of Health and Human Services
Washington, DC  20201

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

Executive Secretary

JORDAN, Craig A., Ph.D.
Director, Division of Extramural Activities
National Institute on Deafness and Other
Communication Disorders
Bethesda, MD  20892
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National Institute on Deafness and Other Communication Disorders (NIDCD) FY20 Spending by Mission Area

- Hearing 54%
- Language 14%
- Smell 9%
- Speech 6%
- Taste 5%
- Voice 8%
- Balance 4%

Includes intramural and extramural funding
National Institute on Deafness and Other Communication Disorders (NIDCD)
FY2021 Enacted Budget
(Dollars in Thousands)

• FY 2019 Enacted: $474,404
• FY 2020 Enacted: $490,692
• FY 2021 Enacted: $498,076

FY 2021 Competing R01/U01 Budget
Payline: $15,000 per Council
HPP: $4,000 per Council