BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Linda J. Hood	POSITION TITLE Professor
eRA COMMONS USER NAME (credential, e.g., agency login) LINDAHOOD	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Bowling Green State University, OH Kent State University, OH University of Maryland, College Park, MD Kresge Hearing Research Laboratory, Louisiana State University Medical Center, New Orleans, LA	B.S. M.A. Ph.D. Post- Doctoral	1969 1974 1983 1984-1987	Speech and Hearing Audiology Hearing Science Auditory Anatomy and Physiology

A. Positions and Honors

1969-1972	Speech and Hearing Therapist, Willoughby-Eastlake Schools, OH
1972-1973	Audiologist, Society for Crippled Children and Adults, Mentor, OH
1974-1975	Audiologist, Central Florida Speech and Hearing Center, Lakeland, FL
1975-1977	Coordinator of Clinical Audiology, Lansdowne Mental Health Center, Ashland, KY
1977-1982	Research Assistant, Assistant Instructor, University of Maryland; Audiologist, VA Medical Center, Washington, DC
1982-1983	Research Associate, Kresge Hearing Research Laboratory, LSU Medical Center, New Orleans, LA
1984-1987	NIH Post-Doctoral Fellow, Kresge Hearing Research Lab, LSU Medical Center, New Orleans, LA
1987-1999	Associate Professor, Kresge Hearing Research Lab, Otorhinolaryngology, LSU Medical Center, New Orleans, LA
1987-2005	Director/Scientific Director, Cochlear Implant Program, LSU Health Sciences Center/Memorial Hospital; Consultant, VA Medical Center, New Orleans, LA
1999-2005	Professor, Kresge Hearing Research Laboratory, Otorhinolaryngology; Adjunct Professor, Departments of Communication Disorders, Genetics, Neuroscience, LSU Health Sciences Center, New Orleans, LA
2005-present	Professor, Dept of Hearing and Speech Sciences, and Associate Director for Research, National Center for Childhood Deafness, Vanderbilt University, Nashville, TN
2009-present	Honorary Professor, School of Rehabilitation Sciences, University of Queensland, Australia

Other Experience and Professional Memberships

Member, American Auditory Society

Member, American Academy of Audiology

Member, American Speech-Language-Hearing Association

Member, International Society of Audiology

Member, International Evoked Response Audiometry Study Group

1983-present Association for Research in Otolaryngology (ARO), Long-Range Planning Committee (2003-

present), Co-Chair, ARO Fall Research Forum (2003-2005)

1988-present American Academy of Audiology, Advisory Board and Board of Representatives (1988-1991,

Convention Chair (1990), Executive Committee and Board of Directors (1991-1995), President (1992-1993), Research Committee (1994-1998, Chair 1998-2000), Council of Past Presidents

(1994-present), International Committee (2004-2008, Co-Chair 2005-2008)

1995-present 1997	Subcommittee on Standards for Otoacoustic Emissions, American National Standards Institute American Speech-Language-Hearing Association Blue Ribbon Panel on Future Directions in Audiology
1997-present	Consultant, Blue Mountains Hearing Study, University of Sydney and Macquarie University, Sydney, Australia
1998-2008	Trustee, American Academy of Audiology Foundation
2000	NIH – BSCS writing and development of science units for middle school students, Colorado
2001-present	AuD Program Advisory Board, Rush University, Chicago, Illinois
2006-present	American Auditory Society Board of Directors, Treasurer (2007-present)
2010-present	Executive Committee Member, International Society of Audiology

Federal Panel Activities

1996	NIH NIDCD Small Grant Applications (R03) Study Section
1997-2000	NIH NIDCD Small Business Innovative Research Study Section (ad hoc reviewer, chair)
1997	NIH NIDCD Working Group on Early Identification of Hearing Impairment
1998	NIH NIDCD Working Group on Developing and Implementing Genetic Diagnostic Tests for
	Hereditary Hearing Impairment and Other Communication Disorders, Co-Chair, Writing Group
1998-present	NIH NIDCD Hearing Study Section (IFCN-6) (Ad hoc member)
2000-2005	NIH NIDCD Hearing Study Section (IFCN-6) (Regular member)
2000-present	US Food and Drug Administration Ear, Nose, and Throat Devices Panel
2002-2005	US Food and Drug Administration Ear, Nose, and Throat Devices Panel (Regular voting member)
2006	NIH NIDCD Special Emphasis Panel (R21/33), Co-Chair
2009	NIH NIDCD Auditory Neuroscience Study Section (ad hoc member)

Honors (selected)

1978	Phi Kappa Phi Honorary, University of Maryland	
1984	American Speech-Language-Hearing Foundation and Psi lota Xi Research Award	
1988	NIH-BRSG Grant, Louisiana State University Medical Center	
1989	Scientific Exhibit Merit Award, American Speech-Language -Hearing Association	
1999	Fellow, American Speech-Language-Hearing Association	
1999	Distinguished Alumni Award, Mentor High School	
2002	Research Achievement Award, American Academy of Audiology	
2006	Distinguished Alumni Award, Bowling Green State University	
2009	Nomination for Top 100 Graduates of Bowling Green State University	

B. Selected Peer-reviewed Publications

Most relevant to the current application

- 1. <u>Hood LJ</u>, Berlin CI, Heffner RS, Morehouse CR, Smith EG, Barlow EK. 1991. Objective auditory threshold estimation using sine-wave derived responses. *Hear Res* 55:109-116. PMID: 1752790
- 2. Starr A, Picton TW, Sininger Y, <u>Hood LJ</u>, Berlin CI. 1996. Auditory neuropathy. *Brain*, 119:741-753. PMID: 8673487
- 3. Berlin CI, Bordelon J, St. John P, Wilensky D, Hurley A, Kluka E, <u>Hood LJ</u>. 1998. Reversing click polarity may uncover auditory neuropathy in infants. *Ear Hear* 19:37-47. PMID: 9504271
- 4. Morlet T, Goforth L, <u>Hood LJ</u>, Ferber C, Duclaux R, Berlin Cl.. 1999. Development of human cochlear active mechanism asymmetry: Involvement of the medial olivocochlear system. *Hear Res* 134:153-162. PMID: 10545647
- 5. <u>Hood LJ</u>, Berlin CI, Bordelon J, Rose K. 2003. Patients with auditory neuropathy/dys-synchrony lack efferent suppression of transient evoked otoacoustic emissions. *J Amer Acad Audiol* 14:302-313. PMID: 14552424
- 6. Berlin CI, <u>Hood LJ</u>, Morlet T, Wilensky D, St. John P, Montgomery E, Thibodeaux M. 2005. Absent or elevated middle ear muscle reflexes in the presence of normal otoacoustic emissions: A universal finding in 136 cases of auditory neuropathy/dys-synchrony. *J Amer Acad Audiol* 16:546-53. PMID: 16295241
- 7. Berlin CI, <u>Hood LJ</u>, Morlet T, Wilensky D, Li L, Rose Mattingly K, Taylor-Jeanfreau J, Keats BJB, St. John P, Montgomery E, Shallop J, Russell BA, Frisch SA. 2010. Multi-site diagnosis and management of 260

patients with Auditory Neuropathy/Dys-synchrony (Auditory Neuropathy Spectrum Disorder). *International J Audiol* 49:30-43. PMID: 20053155

Additional publications of importance to the field (in chronological order)

- 1. <u>Hood LJ</u>, Martin DA, Berlin CI. 1990. Auditory evoked potentials differ at 50 milliseconds in right- and left-handed listeners. *Hear Res* 45:115-122. PMID: 2345110
- 2. <u>Hood LJ</u>, Berlin CI, Allen P. 1994. Cortical deafness: A longitudinal study. *J Amer Acad Audiol* 5:330-342. PMID: 7987023
- 3. Berlin CI, <u>Hood, LJ</u>, Hurley A, Wen H, Kemp DT. 1995. Binaural noise suppresses click-evoked otoacoustic emissions more than ipsilateral or contralateral noise. *Hear Res* 87:96-103. PMID: 8567448
- Hood LJ, Berlin CI, Hurley A, Cecola RP, Bell B. 1996. Contralateral suppression of click-evoked otoacoustic emissions: Intensity effects. Hear Res 101:113-118. PMID: 8951438
- Morell RJ, Kim HJ, Hood LJ, Goforth L, Friderici K, Fisher R, Van Camp G, Berlin CI, Oddux C, Ostrer H, Keats B, Friedman TB. 1998. Mutations in the connexin 26 gene (GJB2) among Ashkenazi Jews with nonsyndromic recessive deafness. New Engl J Med 339:1500-1505. PMID: 9819448
- 6. Brashears SM, Morlet TG, Berlin CI, <u>Hood LJ</u>. 2003. Olivocochlear efferent suppression in classical musicians. *J Amer Acad Audiol* 14:314-324. PMID: 14552425
- 7. Varga R, Avenarius MR, Kelley PM, Keats BJ, <u>Hood LJ</u>, Berlin CI, Morlet TG, Brashears SM, Starr A, Cohn ES, Smith RJ, Kimberling WJ. 2006. OTOF mutations revealed by genetic analysis of hearing loss families including a potential temperature-sensitive auditory neuropathy allele. *J Med Genet* 43(7):576-581. PMID: 16371502
- 8. Spankovich C, <u>Hood LJ</u>, Grantham DW, Polley DB. 2008. Application of frequency modulated chirp stimuli for rapid and sensitive ABR measurements in the rat. *Hear Res 245:92-97*. PMID: 18812220

C. Research Support

Ongoing Research Support

NIH NIDCD T35 DC008763 Hood (PI) 05/01/07 – 04/30/12

Developing research careers in the hearing sciences

This grant provides short-term research traineeship support for graduate students enrolled in AuD programs. The goal of the grant is to provide research experience to students and develop interest in pursuing research as a component or focus of their career.

Role: PI

NIH NIDCD SBIR Delgado (PI) Grant period: 09/20/10-09/19/11

Bone conduction auditory steady state responses

L. Hood oversees the research site for evaluation of new methods and algorithms developed by Intelligent Hearing Systems for applications of AEPs to pediatric auditory threshold estimation.

Role: Co-Investigator (Clinical Site PI)

Completed Research Support

NIH NIDCD SBIR Delgado (PI) Grant period: 2005-2009

Fast audiogram detection using auditory steady state responses

L. Hood oversees the research site for evaluation of new methods and algorithms developed by Intelligent Hearing Systems for applications of AEPs to pediatric auditory threshold estimation.

Role: Co-Investigator (Clinical Site PI)